

PRODUCT CATALOG

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EXPLOSION PROOF PRODUCTS AND SOLUTIONS FOR HAZARDOUS AREAS.

Equipment supply, Engineering and Manufacturing.

Inpratex provides a wide range of custom-made products and solutions for different industries operating in hazardous and potentially explosive environments.



Inpratex SL is based in Eibar (Gipuzkoa, Spain). We are specialists in supplying equipment, in engineering and in the manufacture of products for industries working in Hazardous Areas.

Our engineering team provides solutions combining the limitations related to the use of the equipment with the potentially dangerous environment in which it must be used.

Inpratex supplies ATEX/IECEx equipment and custom-made solutions for manufacturing and process industries.











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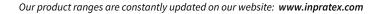
1 - LIGHTING SOLUTIONS

Inpratex supplies a wide range of high quality lighting equipment certified for use in hazardous areas, both indoors and outdoors. Lighting solutions for industrial spaces in working areas with potentially explosive atmospheres caused by gases, vapours (Zones 1, 2) or dust (Zones 21, 22).

High efficient Ex-proof industrial LED light fittings, emergency lights, floodlights, suspended lamps and, more generally, a range of lighting devices for use in industrial sites, warehouses and storage areas with substances that may present an explosion risk.

Inpratex also proposes portable lighting equipment for use in Hazardous Areas.

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Zones 1, 2, 21, 22

LED LIGHT FITTINGS

ZONES 1, 2 (gas) & 21, 22 (dust)

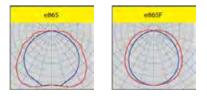
For lighting of hazardous areas zone 1 and 21, the product series e865 is the perfect choice. It excels with its innovative encapsulated LED modules, the sandwich design of diffuser and reflector to protect the LED modules from mechanical and electrostatic damage, as well as homogeneous illumination and excellent glare limitation because of the frosted diffuser (version "F").

High-quality LED and electronic control gears guarantee high efficiency and an extremely long service life. And with the FastFix quick mounting system, installation of the light fittings is easy and saves time. Option: 4.500K, light colour 845.





Supplied without mounting brackets.



Looping the cable on one side:

All light fittings of series nD866... have got 2 cable entries on one small side of the housing for cablelooping instead of the through wiring system.

* This light fitting is not suitable for applications in areas with permanent high humidity in combination with only short periods of operation, such as sewage or stormwater retention tanks or water treatment plants.

ITEM REFERENCES							
Designation:	Cover:	Power: (substitute for)	Luminous flux:	Luminous efficacy:	T. Max:	Weight:	Item No.:
Standard versions:							
e865F 06L22	Frosted	15 W (2x18W)	2170 lm	145 lm/W	55 °C	4,6 kg	1A330A
e865F 06L42	Frosted	28 W (2x36W)	4120 lm	147 lm/W	55 °C	4,7 kg	1A330B
e865F 06L60	Frosted	40 W (2x58W)	5700 lm	143 lm/W	50 °C	4,7kg	1A330C
e865F 12L42	Frosted	28 W (2x36W)	4360 lm	156 lm/W	55 °C	6,7 kg	1A3301
e865F 12L60	Frosted	40 W (2x58W)	6020 lm	151 lm/W	55 °C	6,7 kg	1A3302
e865F 12L85	Frosted	54 W (>2x58W)	8620 lm	160 lm/W	50 °C	7,0 kg	1A3305
e865 12L42	Clear	28 W (2x36W)	4590 lm	164 lm/W	55 °C	6,7 kg	1A3303
e865 12L60	Clear	40 W (2x58W)	6320 lm	158 lm/W	55 °C	6,7 kg	1A3304
e865 12L85	Clear	54 W (>2x58W)	9010 lm	167 lm/W	50 °C	7,0 kg	1A3306
Dimmable via DALI inte	erface:						
e865F 06L42 DIMD	Frosted	28 W (2x36W)	4120 lm	147 lm/W	55 °C	4,7 kg	1A3307
e865F 06L60 DIMD	Frosted	40 W (2x58W)	5700 lm	143 lm/W	50 °C	4,7 kg	1A3308
e865F 12L42 DIMD	Frosted	28 W (2x36W)	4360 lm	156 lm/W	55 °C	6,7 kg	1A3309
e865F 12L60 DIMD	Frosted	40 W (2x58W)	6020 lm	151 lm/W	55 °C	6,7 kg	1A3310
e865F 12L85 DIMD	Frosted	54 W (>2x58W)	8620 lm	160 lm/W	50 °C	7,0 kg	1A3311
For high temperature (through-wiring or l	ooping the cable is not permissib	le):				
e865F 06L22 H65	Frosted	15 W (2x18W)	2170 lm	145 lm/W	65 °C	4,6 kg	1A3312
e865F 06L42 H60	Frosted	28 W (2x36W)	4120 lm	147 lm/W	60 °C	4,7 kg	1A3313
e865F 06L60 H55	Frosted	40 W (2x58W)	5700 lm	143 lm/W	55 °C	4,7 kg	1A3314
e865F 12L42 H65	Frosted	28 W (2x36W)	4360 lm	156 lm/W	65 °C	6,7 kg	1A3315
e865F 12L60 H65	Frosted	40 W (2x58W)	6020 lm	151 lm/W	65 °C	6,7 kg	1A3316

Zones 1, 2, 21, 22

TECHNICAL S	PECIFICATIONS
Marking:	II 2G Ex eb mb q IIC T4 Gb II 2D Ex tb IIIC T80°C Db
Certificate:	EU-Type Examination Certificate
Housing:	Glass fibre reinforced polyester resin.
Cover:	Injected polycarbonate, frosted (F) or clear, silicone gasket.
Closure:	Stainless steel clips (KE), two of them as safety clip (KES), to be opened with screwdriver only.
Reflector:	Sheet Steel, painted, carrying the LED-modules and all electrical components, clipped into the cover, suspendable.
LED:	Line modules with clear cover appr. 6,500K, with frosted cover appr. 6,000K, CRI > 80, service life $L_{80} > 100.000h$ at max. ambient temperature, $L_{90} > 85.000h$ (06L) at 25°C ambient temperature, $L_{90} > 80.000h$ (12L) at 25°C ambient temperature
Operating temperature:	-30°C up to see Item table
Operating frequency:	0 or 50/60 Hz
Rated voltage:	220-240V AC/DC. Overvoltage, overload and short circuit protection.
Ingress protection:	IP66
Connection:	3 poles up to 4 mm ²
Mechanical installation:	Standard: Facing downwards or forwards. Mounting accessories: see accessories.
Cable entries:	3xM25x1,5 (2 plastic cable glands + 1 plastic plug)

e865 06L. - 400 -M8 M8 ភេស <u>ب</u>ال 678 e865 12L. K-HK 865 P 700...800 -- 700 -M8 M8 ίΠ, π 1250 H8V P 14 M8 ぞ A−160. 0 0 - 182 k⊢ -b 182-0 R084 ... P 15A(V) P 139 1 1/2" **≬-** 150 **-**≬ 2" -200 k— 182 —k 182 124

HK 865 P

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ACCESSORIES	
Designation:	Item No.:
2 suspension brackets, stainless steel	H8V P
2 ceiling brackets, hot galvanized steel	15A P
2 ceiling brackets, stainless steel	15AV P
2 pipe clamps 1 ½", stainless steel, with support	R084 112 A P
2 pipe clamps 2", stainless steel, with support	R084 2 A P
2 retaining clips for variable mounting distances	HK 865 P
2 wall mounting angles	W26 P
2 wall mounting angles 30°	W26/30 P
2 wall mounting angles 45°	W26/45 P

Zones 1, 2, 21, 22

LED LIGHT FITTINGS

ZONES 1, 2 (gas) & 21, 22 (dust)

Extremely robust and reliable explosion-proof LED light fittings of product series e840. With their high wall thickness of housing and diffuser as well as the high impact resistance of both components, they are able to withstand extreme loads and thus are particularly well suited for use in tough environments.

Frosted elements on the LED modules for glare limitation result in excellent illumination and protect the LED modules from mechanical or electrostatic damage during installation of the light fittings.

The comfortable central locking system saves time and makes installation easier (13mm hex key).





Supplied without mounting brackets.

OPTION: Control gear with DALI-interface for dimming (DIMD)

Looping the cable on one side:

All light fittings of series e840... have got 2 cable entries on one small side of the housing for cable looping instead of the through wiring system

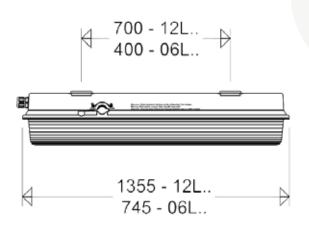
ITEM REFERENCES						
Designation:	Power: (substitute for)	Luminous flux:	Luminous efficacy:	Т. Мах:	Weight:	Item No.:
e840 06L22	16 W (2x18 W)	2054 lm	128 lm/W	55°C	5,6 kg	1A3804
e840 06L42	28 W (2x36 W)	4067 lm	145 lm/W	55°C	5,7 kg	1A3805
e840 12L42	28 W (2x36 W)	4230 lm	151 lm/W	55°C	8,0 kg	1A3801
e840 12L60	40 W (2x58 W)	5850 lm	146 lm/W	55°C	8,0 kg	1A3802
e840 12L85	54 W (>2x58 W)	8300 lm	154 lm/W	50°C	8,5 kg	1A3803

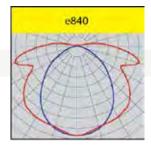
ACCESSORIES		
Designation:	Item No.:	
2 suspension brackets, stainless steel	H8V P	
2 ceiling brackets, hot galvanized steel	15A P	
2 ceiling brackets, stainless steel	15AV P	
2 pipe clamps 1 1/2", stainless steel, with support	RO84 112 A P	
2 pipe clamps 2", stainless steel, with support	R084 2 A P	
1 pair of brackets, stainless steel, for compensating the different mounting distances	84 AA	
2 wall mounting angles	W26/L P	
2 wall mounting angles 30°	W26/30 P	
2 wall mounting angles 45°	W26/45 P	

Zones 1, 2, 21, 22

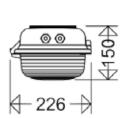
1 🐼 SNITHGIL

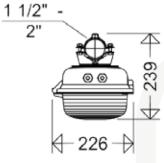
TECHNICAL SPECIFICATIONS			
Marking:	II 2G Ex eb mb op is q IIC T4 Gb II 2D Ex tb op is IIIC T80°C Db		
Certificate:	EU-Type Examination Certificate		
Housing:	Glass fibre reinforced polyester RESIN		
Cover:	Clear polycarbonate with internal prisms, hinged, silicone gasket.		
Reflector:	Aluminium, carrying the encapsu-lated LED-modules with frosted covers for glare limitation, hingeable and removable.		
LED:	Line modules appr. 6,500K, CRI > 80. $L_{70}B_{10} > 100.000h L_{80}B_{50} > 100.000h (each at max. ambient temperature)$		
Operating temperature:	-25°C up to see Item table		
Operating frequency:	0 or 50/60 Hz		
Rated voltage:	220/240 VAC		
Ingress protection:	IP66		
Connection:	3 poles up to 4 mm ²		
Mechanical installation:	Standard: Facing downwards or forwards. Mounting accessories see spare parts/ accessories		
Cable entries:	3 entries M25x1,5 (2 glands - one of them is plugged)		



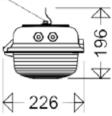


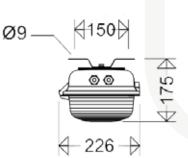
* This light fitting is not suitable for applications in areas with permanent high humidity in combination with only short periods of operation, such as sewage or stormwater retention tanks or water treatment plants.





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Zones 1, 2, 21, 22

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LED LIGHT FITTINGS

ZONES 1, 2 (gas) & 21, 22 (dust)

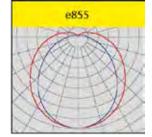
Explosion-proof compact LED light fittings.

Housing from glass fibre reinforced polyester. Frosted polycarbonate diffuser.

Central locking system (operated by a hexagonal box spanner 13mm.)



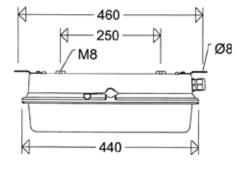
* This light fitting is not suitable for applications in areas with permanent high humidity in combination with only short periods of operation, such as sewage or stormwater retention tanks or water treatment plants.

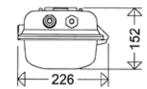


Supplied with mounting brackets. Prepared for looping the mains cable.

ITEM REFERENCES						
Designation:	Power: (substitute for)	Luminous flux:	Luminous efficacy:	Т. Мах:	Weight:	Item No.:
e855F L05	5 W (1x8 W)	510 lm	102 lm/W	60°C	5,0 kg	1A4101
e855F L10	10 W (2x8 W)	1060 lm	106 lm/W	60°C	5,0 kg	1A4102
e855F L20	18 W (2x18 W)	2050 lm	114 lm/W	60°C	5,1 kg	1A4103
e855F L10 DIMD	10 W (2x8 W)	1060 lm	106 lm/W	60°C	5,0 kg	1A4104
e855F L20 DIMD	18 W (2x18 W)	2050 lm	114 lm/W	60°C	5,1 kg	1A4105

TECHNICAL SPECIFICATIONS				
Marking:	II 2G Ex eb mb op is q IIC T4 Gb II 2G Ex db eb mb op is q IIC T4 Gb II 2D Ex op is tb IIIC T80°C Db			
Certificate:	EU-Type Examination Certificate			
Housing:	Glass fibre reinforced polyester			
Cover:	Polycarbonate			
LED:	Line modules appr. 6,500K, CRI typically 80 L ₇₀ B ₁₀ > 80.000h, L ₈₀ B ₅₀ > 80.000h (each at max. ambient Temp.)			
Operating temperature:	-30°C to +60°C			
Operating frequency:	50/60 Hz			
Rated voltage:	220/240V AC			
Ingress protection:	IP66			
Connection:	Terminal L1+N+PE; up to 2,5mm ²			
Cable entries:	1xM25X1,5 plastic cable gland 1xM25X1,5 plastic plug			





ACCESSORIES		
Designation:	Item No.:	
2 suspension brackets, stainless steel	H8V P	
2 ceiling brackets, hot galvanized steel	15A P	
2 ceiling brackets, stainless steel	15AV P	
2 pipe clamps 1 1/2", stainless steel, with support	RO84 112 A P	
2 pipe clamps 2", stainless steel, with support	RO84 2 A P	
2 retaining clips for variable mounting distances	HK 865 P	
2 wall mounting angles	W26 P	
2 wall mounting angles 30°	W26/30 P	
2 wall mounting angles 45°	W26/45 P	

1 🐼 SILING

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

LED LIGHT FITTINGS ZONES 1, 2 (gas) & 21, 22 (dust) The ATEX lighting lamps are supplied and fuses interconthermo-insulating. Supplied brackets Supplied brackets External reflector be installed on site External screws and External screws and

The ATEX lighting fitures series EVF..RUN for Ø 26 mm LED lamps are supplied completed with electronic ballast, starter and fuses interconnected. They are charcterized by a tubular thermo-insulating borosilicate glass.

Supplied brackets can be used for ceiling installation.

External reflector (not included in the standard equipment) can be installed on site.

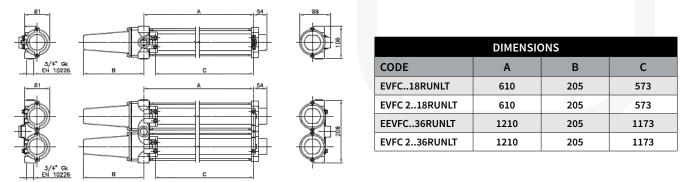
External screws are made of Stainless Steel.



ITEM REFERENCES			
Designation:	Power:	Luminous flux:	Item No.:
EVFC18RUNLT	1x7.6 W	800 lm	1A4601
EVFC 218RUNLT	2x7.6 W	1600 lm	1A4602
EVFC36RUNLT	1x15 W	1800 lm	1A4603
EVFC 236RUNLT	2x15 W	3600 lm	1A4604

TECHNICAL SPECIFICATIONS		
Marking:	EX II 2G Ex d IIC T6-T4 Gb II 2D Ex tb IIIC T80°C-T130°C Db	
Certificate:	EU-Type Examination Certificate	
Housing:	Aluminium light alloy (RAL 9006)	
Cover:	Tubular thermo-insulating borosilicate glass	
Lamp:	Ø26 mm LED lamp with bipin plugs at 230 V (included)	
Operating temperature:	-20°C to +40°C	
Ingress protection:	IP66/67	
Cable entries:	2x3/4" NPT (cable glands not included)	

ACCESSORIES	
Designation:	Item No.:
External reflector for EVF 118	EVF 12/8
External reflector for EVF 218	EVF 22/8
External reflector for EVF 136	EVF 14/8
External reflector for EVF 236	EVF 24/8



LED LIGHT FITTINGS EXP 83 MLED

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com



Explosion-proof LED luminaire, ideal for installations in offshore environments.

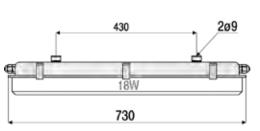
Housing in stainless steel.

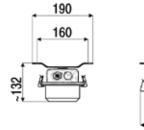
Clear polycarbonate diffuser.



ITEM REFERENCES					
Designation:	Power:	Rated voltage:	Luminous flux:	Weight:	Item No.:
EXP 83-MLED/220/125/DO/S	25 W	110-254 VAC	2349 lm	4,9 kg	1A4301
EXP 83-MLED/240/150/DO/S	50 W	220-250 VAC	4673 lm	7,5 kg	1A4302

	TECHNICAL SPECIFICATIONS
Marking:	Ex II 2G Ex db eb mb IIC T4 Gb II 2D Ex tb IIIC T60°/65°C IP66/IP67 Db
Certificate:	EU-Type Examination Certificate
Operating conditions:	Indoor / Outdoor. Offfshore environments
Housing:	Stainless steel 304
Cover:	Polycarbonate
LED:	4000K. LED panel with opal cover. > 50.000h
Operating temperature:	-35°C to +40°C
Operating frequency:	50/60 Hz
Ingress protection:	IP66/67
Mounting:	2 brackets with 2 mounting holes Ø9 mm
Connection:	2 x /3x4 mm ² /
Cable entries:	2xM20x1,5 plastic cable gland, 2xM20x1,5 plastic plug



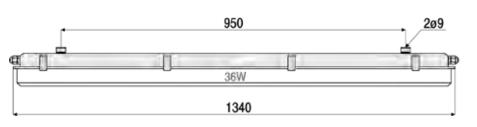


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Zones 1, 2, 21, 22



limitation.

Encapsulated ECG with overvoltage, overload and short circuit protection.

Central locking system operated by a 5mm allen key, hinges on the opposite side.

Looping the cable on one side:

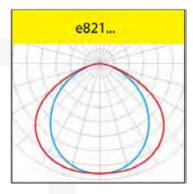
All light fittings of series e821... have 2 cable entries on one small side of the housing for cable looping instead of the through wiring system. (3-pole looping standard, 5-pole looping at additional cost)

		Ι.	TEM REFERENCES			
Designation:	Power (substitute for):	Luminous flux:	Luminous efficacy:	T. max.:	Weight:	Item No.:
e821 06L42	28 W (2x36W)	4110 lm	147 lm/W	55 °C	7,9 kg	1A4401
e821 06L60	40 W (2x58W)	5600 lm	140 lm/W	55 °C	7,9 kg	1A4402
e821 12L42	28 W (2v36W)	4260 lm	152 lm/W	55 °C	13,6 kg	1A4403
e821 12L60	40 W (2x58W)	5900 lm	148 lm/W	55 °C	14,0 kg	1A4404
e821 12L85	54 W (>2x58W)	8350 lm	155 lm/W	55 °C	14,0 kg	1A4405
e821 12L120	79 W (>3x58W)	11470 lm	145 lm/W	55 °C	14,0 kg	1A4406

	TECHNICAL SPECIFICATIONS
Marking:	Il 2G Ex eb mb q IIC T4 Gb Il 2D Ex tb IIIC T80°C Db
Certificate:	EU-Type Examination Certificate
Housing:	Sheet steel, powder coated in light grey (RAL 7035), silicone foam gasket
Cover:	Impact resistant safety glass pane, frameless / hinged.
LED:	Line modules approx. 6500K. CRI > 80, L70B10 > 100.000h L80B50 > 100.000h L90B50 > 50.000h (each at max. ambient temperature)
Operating temperature:	-30°C to +55°C (The values given are for versions with through wiring)
Operating frequency:	0 or 50/60 Hz
Rated voltage:	220/240V AC/DC
Ingress protection:	IP65
Connection:	3 poles up to 4 mm ²
Cable entries:	3xM25 x 1,5 (2 plastic cable glands - one of them is plugged)

LED-STEEP ROOF LIGHT FITTINGS SERIES E821

Zones 1, 2, 21, 22

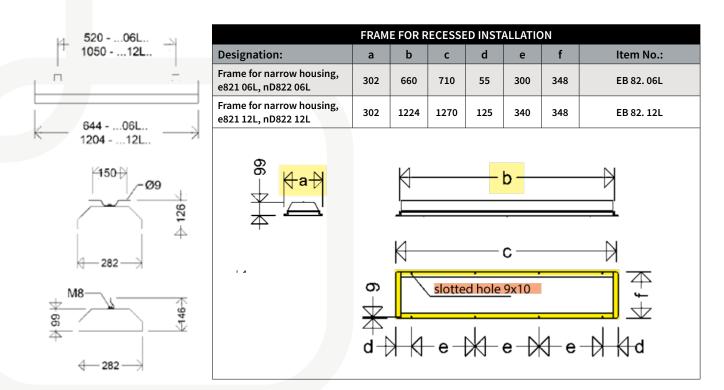


Note: This light fitting is not suitable for application in areas with permanent high humidity in combination with only short periods of operation, such as sewage or stormwater retention tanks or water treatment plants.

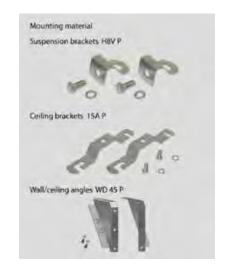
ACCESSORIES				
Designation:	Item No.:			
2 suspension eyes, stainless steel	H8V P			
2 ceiling brackets, hot galvanized steel	15A P			
2 ceiling brackets, stainless steel	15AV P			
2 wall/ceiling angle, steel	WD 45 P			

Light fittings of series e821... can be equipped with a frame even at a later stage. Mounting by means of M5 bolts to the long sides of the housing (see drawing).

Attention: When planning the opening for recess installation please allow additional clearance for the cable glands.







LED LIGHTING FIXTURES SERIES EVL

Zones 1, 2, 21, 22



ZONES 1, 2 (gas) & 21, 22 (dust)

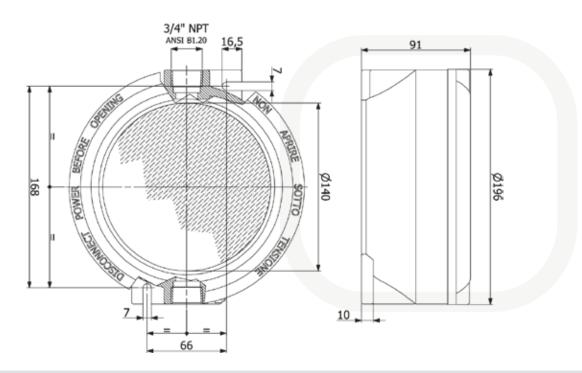


Full catalogue available on our website: www.inpratex.com

Explosion-proof compact unit for use in tunnels, boiler rooms, rooms with low ceilings, narrow deposits and in all places where space does not permit the use of traditional light fittings.

ITEM REFERENCES					
Designation:	Power: Voltage: Luminous flux: Color: Item No.:				Item No.:
EVL 12 24 D	12 W	24 V DC	1150 lm	White / 6000 K	1J0301
EVL 12 230 A	12 W	100-230 V AC/DC	1150 lm	White / 6000 K	1J0302

	TECHNICAL SPECIFICATIONS		
Marking:	EX II 2G Ex d IIC T6-T4 Gb II 2D Ex tb IIIC T85°C-T135°C Db		
Certificate:	EU-Type Examination Certificate		
Housing:	Aluminium light alloy		
Cover:	Tempered safety glass		
Weight:	2,7 kg		
Operating temperature:	-20°C to +40°C		
Ingress protection:	IP66/67		
Cable entries:	2x3/4" NPT (cable glands not included)		



LED CEILING/WALL MOUNTING LIGHT FITTING SERIES E9312

Zones 1, 2, 21, 22

OVAL SHAPED LIGHT FITTINGS

ZONES 1, 2 (gas) & 21, 22 (dust)

Small, explosion-protected light fitting for the illumination of hard-to-reach areas, areas with confined space conditions or with minimal requirements for illuminance. This LED ceiling or wall-mounted ATEX light fitting is a robust, compact, left natural device.

His outer fixing points allow easy installation. Furthermore, the frosted impact-resistant PC cover ensures glare-free and homogeneous illumination and, in combination with the sturdy wire guard, protects the light fitting against accidental damage.





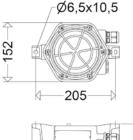


EU-Type Examination Certificate

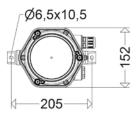


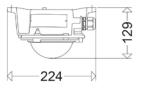
	ITEM REFERENCES					
Designation:	Power:	Voltage: Luminous flux: Luminous efficacy: Weight: Iter			Item No.:	
e9312F SK (wire guard)	11.14	220 2400 46/06	600 lm		1,3 kg	1J0401
e9312F	11 W	220-240V AC/DC	600 lm	55 lm/W	1,2 kg	1J0402

	TECHNICAL SPECIFICATIONS		
Marking:	Ex II 2 G Ex eb mb IIC T4 Gb II 2 D Ex tb IIIC T80 °C Db		
Certificate:	EU-Type Examination Certificate		
Housing:	Diecast aluminium, unpaint <mark>ed</mark>		
Cover:	Polycarbonate, frosted		
Wire guard:	Galvanised steel		
Mounting:	2 cast on brackets for wall or ceiling mounting		
LED:	6,500K, CRI typically 80 lifetime L ₇₀ > 100.000h at max. ambient temperature		
Operating temperature:	-25°C to +40°C		
Rated voltage:	220-240V AC/DC, 0 or 50/60Hz		
Ingress protection:	IP66		
Connection:	3 poles up to 2,5 mm ²		
Cable entries:	1xM25 x 1,5 plastic cable glands (7-17 mm) 1xM25 x 1,5 plastic plug		



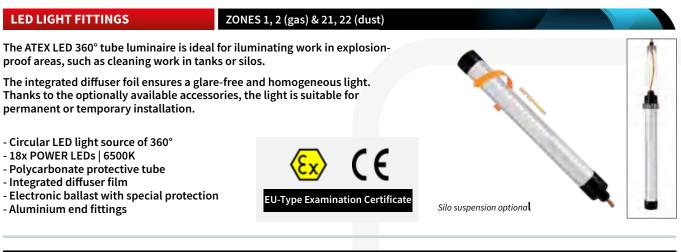






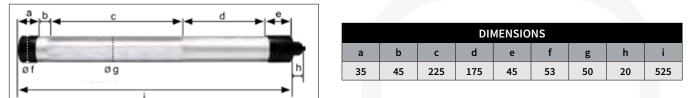
Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com



		ITEM REFE	RENCES		
Designation:	Power: Luminous flux: Colour T.: Weight: Item No.:				
EX 5018 Tube Luminaire	10 W	1000 lm	6500K	1,5 kg	1D0602

	TECHNICAL SPECIFICATIONS
Marking:	EX II 2G Ex eb mb o is IIC T4 Gb II 2D Ex tb op is IIIC T105° Db
Certificate:	EU-Type Examination Certificate
Operating temperature:	-20°C to +40°C
Rated voltage:	24V AC/DC
Current:	0,33 A
Power:	10 W
LED 360°:	18x POWER LED Colour Rendering Index >70 Lifetime >50.000h
Protection class:	III
Ingress protection:	IP68-50m/5h
Protective tube:	Polycarbonat
Impact resistance:	IK10
Integrated diffuser film:	Yes
Energy efficiency class:	F
Cable:	10m H07RN-F 2x1 mm ²



	ACCESSORIES				
Design	ation:	Item No.:			
ń	Silo suspension	AS-EX 5018			
9	Mounting bracket with lock	BFK D50 EX			
Ω	Permanent magnet with mounting bracket	KM 50 EX-KL			
27	Antistatic protective film to protect the polycarbonate tube	SFO-EX 5018			

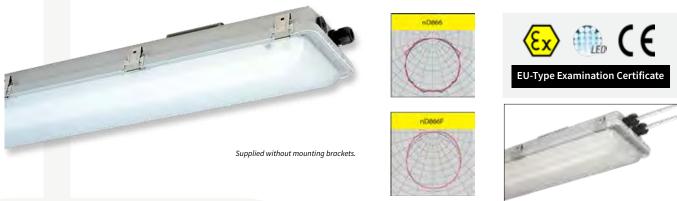
Zones 2, 22

LED LIGHT FITTINGS

ZONES 2 (gas) & 22 (dust)

The product series nD866 is the perfect solution for the illumination of hazardous areas zone 2 and 22. Suitable in high ambient temperatures up to +65°C, it excels with its innovative sandwich design of diffusor and reflector to protect the LED modules from mechanical or electrostatic damage, as well as homogeneous illumination and excellent glare limitation with the frosted diffuser (version "F").

High-quality LED modules and electronic control gears guarantee high efficiency and an extremely long service life.



Looping the cable on one side:

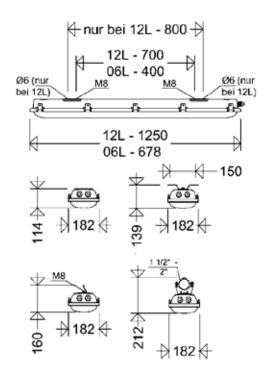
All light fittings of series nD866... have got 2 cable entries on one small side of the housing for cablelooping instead of the through wiring system.

* This light fitting is not suitable for applications in areas with permanent high humidity in combination with only short periods of operation, such as sewage or stormwater retention tanks or water treatment plants.

Designation	Covern		Luminous flux:	Luminous office ou	TMay	Weight	literre N.e. c
Designation:	Cover:	Power: (substitute for)	Luminous flux:	Luminous efficacy:	T. Max:	Weight:	Item No.:
Standard versions:							
nD866F06L22	Frosted	15 W (2x18W)	2170 lm	145 lm/W	40 °C	3,3 kg	1A340A
nD866F 06L42	Frosted	28 W (2x36W)	4120 lm	147 lm/W	40 °C	3,4 kg	1A340B
nD866F 06L60	Frosted	40 W (2x58W)	5700 lm	143 lm/W	40 °C	3,4 kg	1A340C
nD866F 12L42	Frosted	28 W (2x36W)	4360 lm	156 lm/W	40 °C	5,4 kg	1A3401
nD866F 12L60	Frosted	40 W (2x58W)	6020 lm	151 lm/W	40 °C	5,4 kg	1A3402
nD866F 12L85	Frosted	54 W (>2x58W)	8620 lm	160 lm/W	40 °C	5,5 kg	1A3405
nD866 12L42	Clear	28 W (2x36W)	4590 lm	164 lm/W	40 °C	5,4 kg	1A3403
nD866 12L60	Clear	40 W (2x58W)	6320 lm	158 lm/W	40 °C	5,4 kg	1A3404
nD866 12L85	Clear	54 W (>2x58W)	9010 lm	167 lm/W	40 °C	5,5 kg	1A3406
Dimmable via DALI interface:							
nD866F 06L42 DIMD	Frosted	28 W (2x36W)	4120 lm	147 lm/W	40 °C	3,4 kg	1A3411
nD866F 06L60 DIMD	Frosted	40 W (2x58W)	5700 lm	143 lm/W	40 °C	3,4 kg	1A3412
nD866F 12L42 DIMD	Frosted	28 W (2x36W)	4360 lm	156 lm/W	40 °C	5,4 kg	1A3413
nD866F 12L60 DIMD	Frosted	40 W (2x58W)	6020 lm	151 lm/W	40 °C	5,4 kg	1A3414
nD866F 12L85 DIMD	Frosted	54 W (>2x58W)	8620 lm	160 lm/W	40 °C	5,5 kg	1A3415
For high temperature (through	n-wiring or looping	the cable is not permissible):					
nD866F 12L42 H65	Frosted	28 W (2x36W)	4360 lm	156 lm/W	65 °C	5,4 kg	1A3407
nD866F 12L60 H60	Frosted	40 W (2x58W)	6020 lm	151 lm/W	60 °C	5,4 kg	1A3408
nD866 12L42 H65	Clear	28 W (2x36W)	4360 lm	156 lm/W	65 °C	5,4 kg	1A3409
nD866 12L60 H60	Clear	40 W (2x58W)	6020 lm	151 lm/W	60 °C	5,4 kg	1A3410
Recommended version for out	Recommended version for outdoor lighting (4000K, Ra 70, FHS < 5%)						
nD866F 12L42 740 FHS 2,8%	Frosted	28 W (2x36W)	4360 lm	156 lm/W	40 °C	5,4 kg	1A3416
nD866 12L60 740 FHS 0,35%	Clear	40 W (2x58W)	6320 lm	151 lm/W	40 °C	5,4 kg	1A3420
nD866 12L85 740 FHS 1,7%	Clear	54 W (>2x58W)	9010 lm	160 lm/W	40 °C	5,5 kg	1A3421

Zones 2, 22

	TECHNICAL SPECIFICATIONS				
Marking:	II 3G Ex ec IIC T4 Gc II 3D Ex tc IIIC T80°C Dc				
Certificate:	EU-Type Examination Certificate				
Housing:	Glass fibre reinforced polyester resin. Stainless steel clips (KE), two of them as safety clip (KES), to be opened with screwdriver only.				
Cover:	Injected polycarbonate, frosted (F) or clear, silicone gasket.				
Reflector:	Sheet Steel, painted, carrying the LED-modules and all electrical components, clipped into the cover, suspendable.				
Impact protection:	IK 10 (at the temperature of +25°C)				
LED:	Line modules 5,000K. CRI > 80 lifetime L80 > 100.000h at max. ambient temperature L_{90} > 80.000h (06L), L_{90} > 90.000h (12L) at 25°C ambient temperature				
Operating temperature:	-30°C up to see Item table				
Operating frequency:	0 or 50/60 Hz				
Rated voltage:	220-240V AC/DC. Overvoltage, overload and short circuit protection.				
Ingress protection:	IP66				
Connection:	3 poles up to 2,5 mm ²				
Mechanical installation:	Standard: Facing downwards or forwards. Direct ceiling mounting is possible. Rubber washers are included. Further mounting options see accessories				
Cable entries:	2xM25X1,5 plastic cable glands 1xM25X1,5 plastic plugs				





ACCESSORIES				
Designation:	Item No.:			
2 suspension brackets, stainless steel	H8V P			
2 ceiling brackets, hot galvanized steel	15A P			
2 ceiling brackets, stainless steel	15AV P			
2 pipe clamps 1 ½", stainless steel, with support	RO84 112 A P			
2 pipe clamps 2", stainless steel, with support	R084 2 A P			
2 retaining clips for variable mounting distances	HK 865 P			
2 wall mounting angles	W26 P			
2 wall mounting angles 30°	W26/30 P			
2 wall mounting angles 45°	W26/45 P			

COMPACT LIGHT FITTINGS SERIES ND8611-LED

Zones 2, 22

LED LIGHT FITTINGS

ZONES 2 (gas) & 22 (dust)



Compact LED Light Fitting ideal for permanent lighting in confined spaces in areas at risk of explosion.

Robust fitting for rough environment.

Perfect by straintened field conditions.

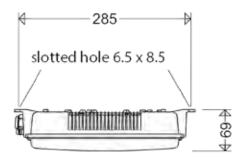
Homogeneous illumination by using frosted diffusers, comfortable perception of light.

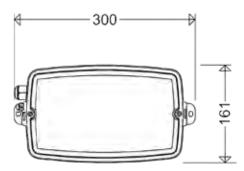
Fast mounting through external mounting grounding clips.



	ITEM REFERENCES						
Designation: Power Consumption: Luminous flux:		Luminous efficacy:	Weight:	Item No.:			
nD8611 L02 W	4W	150 lm	38 lm/W	0,8 kg	1A2305		

TECHNICAL SPECIFICATIONS				
Marking:	II 3G Ex nR IIC T4 Gc			
Certificate:	Declaration of Conformity			
Operating conditions:	Indoor / Outdoor			
Housing:	Diecast aluminium, natural finish			
Cover:	Polycarbonate opalescent white			
LED:	Linear module 6.500K, CRI > 80, L80 > 50.000h at max. ambient temperature			
Operating temperature:	-20°C a +40°C			
Operating frequency:	50/60 Hz			
Rated voltage:	220-240 V AC			
Ingress protection:	IP65			
Connection terminals:	3 or 4 poles, clamping range max. 2,5mm ² .			
Cable entries:	1xM20x1,5 plastic cable gland			





Zones 2, 22



Sheet steel reflector, white powder coated, hingeable and detachable, with encapsulated LED modules and frosted covers for glare limitation.

Encapsulated ECG with overvoltage, overload and short circuit protection.

Central locking system operated by a 5mm allen key, hinges on the opposite side.

Looping the cable on one side:

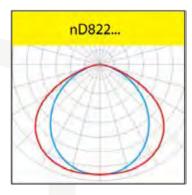
All light fittings of series nD822... have 2 cable entries on one small side of the housing for cable looping instead of the through wiring system. (3-pole looping standard, 5-pole looping at additionel cost)

	ITEM REFERENCES						
Designation:	Power (substitute for):	Luminous flux:	Luminous efficacy:	T. max.:	Weight:	Item No.:	
nD822 06L42	28 W (2x36W)	4110 lm	147 lm/W	40 °C	7,9 kg	1A4501	
nD822 06L60	40 W (2x58W)	5600 lm	140 lm/W	40 °C	7,9 kg	1A4502	
nD822 12L42	28 W (2v36W)	4260 lm	152 lm/W	40 °C	13,6 kg	1A4503	
nD822 12L60	40 W (2x58W)	5900 lm	148 lm/W	40 °C	14,0 kg	1A4504	
nD822 12L85	54 W (>2x58W)	8350 lm	155 lm/W	40 °C	14,0 kg	1A4505	
nD822 12L120	79 W (>3x58W)	11470 lm	145 lm/W	40 °C	14,0 kg	1A4506	

	TECHNICAL SPECIFICATIONS		
Marking:	II 3G Ex ec IIC T4 Gc		
Certificate:	Declaration of conformity		
Housing:	Sheet steel, powder coated in light grey (RAL 7035), silicone foam gasket		
Cover:	Impact resistant safety glass pane, frameless / hinged.		
LED:	Line modules approx. 5000K. CRI > 80, L70B10 > 100.000h L80B50 > 100.000h L90B50 > 50.000h (each at max. ambient temperature)		
Operating temperature:	-30°C to +40°C		
Operating frequency:	0 or 50/60 Hz		
Rated voltage:	220/240V AC/DC		
Ingress protection:	IP65		
Connection:	3 poles up to 4 mm ²		
Cable entries:	3xM25 x 1,5 (2 plastic cable glands - one of them is plugged)		

LED-STEEP ROOF LIGHT FITTINGS SERIES ND822

Zones 2, 22

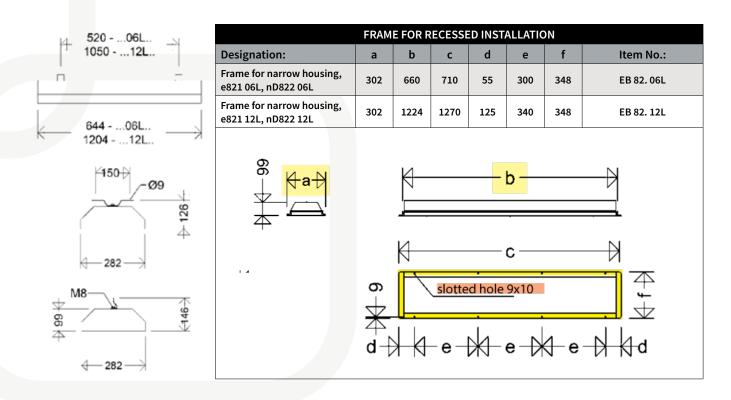


Note: This light fitting is not suitable for application in areas with permanent high humidity in combination with only short periods of operation, such as sewage or stormwater retention tanks or water treatment plants.

ACCESSORIES				
Designation:	Item No.:			
2 suspension eyes, stainless steel	H8V P			
2 ceiling brackets, hot galvanized steel	15A P			
2 ceiling brackets, stainless steel	15AV P			
2 wall/ceiling angle, steel	WD 45 P			

Light fittings of series nD822... can be equipped with a frame even at a later stage. Mounting by means of M5 bolts to the long sides of the housing (see drawing).

Attention: When planning the opening for recess installation please allow additional clearance for the cable glands.







1 🐼 SNITHOIL

EX LED LIGHT FITTINGS

ZONES 2 (gas) & 22 (dust)

Industrial LED light fitting, suitable for operation in hazardous areas.

High degree of protection IP66/68.

Aluminum enclosure with mounting slots.

Epoxy resin diffuser. Color temperature 4000K Non-replaceable cable. Cable options 5 and 10 m. Other lengths on request.



More information: www.ATEX LED LINE.com

ITEM REFERENCES					
Designation:	Length A:	Cable length:	Power::	Luminous flux:	Item No.:
ATEX LED LINE 205	200 mm	5 m	1 W	77 lm	1A4801
ATEX LED LINE 210	200 mm	10 m	1 W	77 lm	1A4802
ATEX LED LINE 305	300 mm	5 m	2 W	152 lm	1A4803
ATEX LED LINE 310	300 mm	10 m	2 W	152 lm	1A4804
ATEX LED LINE 405	400 mm	5 m	3 W	220 lm	1A4805
ATEX LED LINE 410	400 mm	10 m	3 W	220 lm	1A4806
ATEX LED LINE 505	500 mm	5 m	4 W	311 lm	1A4807
ATEX LED LINE 510	500 mm	10 m	4 W	311 lm	1A4808
ATEX LED LINE 605	600 mm	5 m	5 W	385 lm	1A4809
ATEX LED LINE 610	600 mm	10 m	5 W	385 lm	1A4810
ATEX LED LINE 705	700 mm	5 m	6 W	458 lm	1A4811
ATEX LED LINE 710	700 mm	10 m	6 W	458 lm	1A4812
ATEX LED LINE 805	800 mm	5 m	7 W	523 lm	1A4813
ATEX LED LINE 810	800 mm	10 m	7 W	523 lm	1A4814
ATEX LED LINE 905	900 mm	5 m	8 W	623 lm	1A4815
ATEX LED LINE 910	900 mm	10 m	8 W	623 lm	1A4816
ATEX LED LINE 1005	1000 mm	5 m	9 W	675 lm	1A4817
ATEX LED LINE 1010	1000 mm	10 m	9 W	675 lm	1A4818
ATEX LED LINE 1105	1100 mm	5 m	10 W	770 lm	1A4819
ATEX LED LINE 1110	1100 mm	10 m	10 W	770 lm	1A4820
ATEX LED LINE 1205	1200 mm	5 m	11 W	825 lm	1A4821
ATEX LED LINE 1210	1200 mm	10 m	11 W	825 lm	1A4822
ATEX LED LINE 1305	1300 mm	5 m	12 W	899 lm	1A4823
ATEX LED LINE 1310	1300 mm	10 m	12 W	899 lm	1A4824
Options:					

Options:

Colors: Red | Green | Blue (on request)

Configuration: Luminaires connected in series (on request)

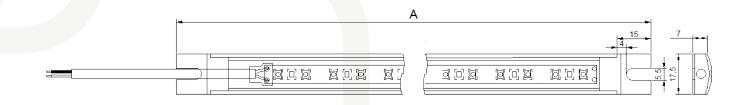
Other options on request

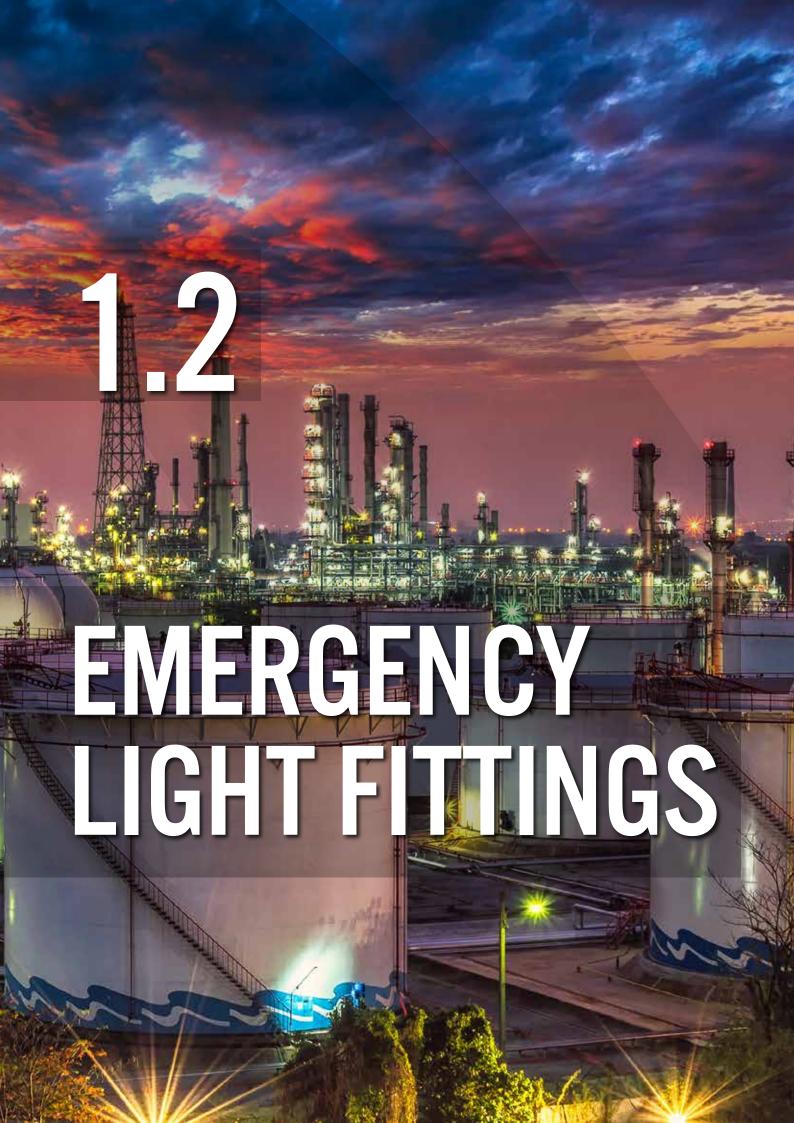
ATEX LED LINE

Full catalogue available on our website: www.inpratex.com

1 🛞 DNILHBIN

	TECHNICAL SPECIFICATIONS
Marking:	II 3G Ex mc IIC T6 Gc
Certificate:	EU-Type Examination Certificate
Application:	Industrial
Housing:	Aluminum, RAL 9010
LED:	5000h L80B10 8000h L55B10 13000h L37B10 23000h L12B10
Diffuser:	Epoxy resin
Operating temperature:	-20°C to +45°C
Rated voltage:	24V DC
Ingress protection:	IP66/68 IK08
Energy efficiency class:	F
Cable entries: Non-replaceable cable. Other configurations available upon request.	





LED EMERGENCY LIGHT FITTINGS SERIES E856

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX EMERGENCY LIGHT FITTINGS ZONES 1, 2 (gas) & 21, 22 (dust)

Version without battery box. Mounting accessories: see accessories





Options: dimmable via DALI-interface (DIMD)



Small LED Emergency light fitting for hazardous areas in Zones 1, 2 and 21, 22 as safety illumination and as information or escape route lighting.

Glass fibre reinforced polyester housing.

Clear polycarbonate, frosted, detachable cover.

Automatic weekly function test and automatic annual duration test. Manual actuation of duration test is possible.

Easy battery replacement due to connector.

White, detachable reflector, carrying the encapsulated LED-modules and glare limitation modules. Central locking system operated by a hexagonal box spanner 13mm.

e8	56

ITEM REFERENCES (STANDARD VERSION)								
Designation:	Cover:	Power: (substitute for)	Luminous flux:	Luminous flux (Emergency):	Luminous efficacy:	T. Max:	Weight:	Item No.:
1h operation time								
e856F L05/1/1,6	Frosted	6 W (1x8 W)	510 lm	510 lm	85 lm/W	55 °C	5,4 kg	1A0610
e856F L10/1/1,6	Frosted	11 W (2x8 W)	1060 lm	560 lm	96 lm/W	40 °C	5,4 kg	1A0611
e856F L20/1/1,6	Frosted	19 W (2x18 W)	2050 lm	560 lm	108 lm/W	40 °C	5,5 kg	1A0612
3h operation time								
e856F L05/3/2,5	Frosted	6 W (1x8 W)	510 lm	260 lm	85 lm/W	55 °C	5,4 kg	1A0613
e856F L10/3/2,5	Frosted	11 W (2x8 W)	1060 lm	260 lm	96 lm/W	40 °C	5,4 kg	1A0614
e856F L20/3/2,5	Frosted	19 W (2x18 W)	2050 lm	260 lm	108 lm/W	40 °C	5,6 kg	1A0615

ITEM REFERENCES (BATTERY BOX VERSION)								
Designation:	Cover:	Power: (substitute for)	Luminous flux:	Luminous flux (Emergency):	Luminous efficacy:	T. Max:	Weight:	Item No.:
1h operation time								
e856F L10/1/1,6 H	Frosted	11 W (2x8 W)	1060 lm	560 lm	96 lm/W	55 °C	6,3 kg	1A0616
e856F L20/1/1,6 H	Frosted	19 W (2x18 W)	2050 lm	560 lm	108 lm/W	55 °C	6,4 kg	1A0617
3h operation time								
e856F L10/3/2,5 H	Frosted	11 W (2x8 W)	1060 lm	260 lm	96 lm/W	55 °C	6,4 kg	1A0618
e856F L20/3/2,5 H	Frosted	19 W (2x18 W)	2050 lm	260 lm	108 lm/W	55 °C	6,5 kg	1A0619

LED EMERGENCY LIGHT FITTINGS SERIES E856

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

	TECHNICAL SPECIFICATIONS
Marking:	Ex db eb [ib] mb op is q IIC T4 Gb II 2D Ex op is tb IIIC T80°C Db
Certificate:	EU-Type Examination Certificate
Housing:	Glass fibre reinforced polyester
Cover:	Polycarbonate
LED:	Line modules ca. 6,500K, CRI > 80 $L_{70}B_{10}$ > 80.000h, $L_{80}B_{50}$ > 80.000h each at max. ambient temperature
Battery:	NiCd, electronic charger, short circuit protected battery and reverse battery protection
Re-charging time:	24 h, acc. to EN 60598-2-22
Operating temperature:	-30°C to +55°C. Norminal range acc. to EN 60598-2-22 0°C up to 40° or 50°C (H-Versions). Reduced emergency light duration if operated below 0°C
Operating frequency:	50/60 Hz
Rated voltage:	220/240V AC
Ingress protection:	IP66
Automatic monitoring:	of the emergency light fitting according to EN 62034, indication of the test results by 2-coloured LED (luminescence diode) at the luminaire
Connection:	Prepared for looping the mains cable at one end 4 x 2.5mm ²
Cable entries:	1xM25X1,5 plastic cable gland 1xM25X1,5 plastic plug

e856F ... H (with battery box)

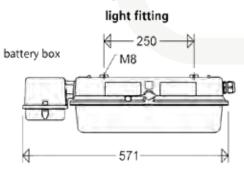
e856F ... (without battery box)

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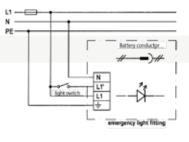
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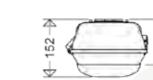
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ACCESSORIES	
Designation:	Item No.:
2 ceiling brackets, hot galvanized steel	15A P
2 ceiling brackets, stainless steel	15AV P
2 pipe clamps 1 1/2", stainless steel, with support	R084 112 A P
2 pipe clamps 2", stainless steel, with support	R084 2 A P
2 wall mounting angles	W26/L P
2 wall mounting angles 30°	W26/30 P
2 wall mounting angles 45°	W26/45 P

Self-adhesive pictograms:	Item No.:
Emergency exit to the left	121/33 W
Emergency exit to the right	121/34 W
Emergency exit below	121/35 W

152 ⊕

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Self-adhesive pictograms for identification of escape routes acc. to DIN EN ISO 7010 and ASR A1.3. Viewing distance: 25 m

EMERGENCY LIGHT FITTINGS SERIES EXELED 1 N E864

Zones 1, 2, 21, 22

(Ex)

-IGHTING

ATEX EMERGENCY LIGHT FITTINGS ZONES 1, 2 (gas) & 21, 22 (dust)

For escape routes and work areas with special risks, reliability of illumination is essential in the event of a failure of the general lighting system to allow safe exit of the affected area. In hazardous areas zone 1 and 21, the explosion-protected LED emergency light fittings with single battery of product series ExeLed 1 N provide this with great reliability and noticeably high efficiency.

Maintained operation: switching over to battery operation in case of mains failure, line modules will be operated with reduced luminous flux as emergency lighting.

Stand-by operation: switching on in case of mains failure.

Supplied without mounting brackets.









Options: Dimmable via DALI-interface (DIMD) 4.500K, light colour 845

- safety in case of an emergency, instant light with maximum light output
- multifunctional LED with coded indication of the functions, states and potential faults of the electronic device and the battery
- automatic weekly function test
- automatic annual duration test
- easy battery replacement due to connector
- innovative encapsulation with high transmission rate
- LED-Modules protected from mechanical or electrostatic damages by sandwich design of reflector and cover
- homogeneous illumination by using frosted diffusers (versions e864F..) no individual light points visible, comfortable perception of light, brilliant glare limitation
- FastFix mounting, system for variable mounting distances and easy installation (retaining clips HK865 P) without opening the fitting

* This light fitting is not suitable for applications in areas with permanent high humidity in combination withonly short periods of operation, such as sewage orstormwater retention tanks or water treatment plants.

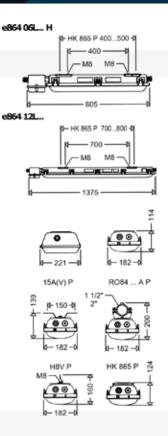
			ITEM REI	FERENCES				
Designation:	Cover:	Power: (substitute for)	Luminous flux:	Luminous flux (Emergency):	Luminous efficacy:	T. Max:	Weight:	Item No.:
1h operation time								
e864F06L22/1/1,6	Frosted	18 W (2x18W)	2170 lm	700 lm	121 lm/W	55 °C	6,2 kg	1A400A
e864F06L42/1/1,6	Frosted	29 W (2x36W)	4100 lm	700 lm	141 lm/W	50 °C	6,4 kg	1A400B
e864F 12L42/1/1,6	Frosted	29 W (2x36W)	4360 lm	750 lm	150 lm/W	55 °C	7,6 kg	1A4001
e864F 12L60/1/1,6	Frosted	41 W (2x58W)	6020 lm	750 lm	147 lm/W	55 °C	7,6 kg	1A4002
e864 12L42/1/1,6	Clear	29 W (2x36W)	4590 lm	800 lm	158 lm/W	55 °C	7,6 kg	1A4003
e864 12L60/1/1,6	Clear	41 W (2x58W)	6320lm	800 lm	155 lm/W	55 °C	7,6 kg	1A4004
3h operation time		·			•			
e864F 06L22/3/4	Frosted	18 W (2x18W)	2170 lm	700 lm	121 lm/W	55 °C	6,4 kg	1A400C
e864F 06L42/3/4	Frosted	29 W (2x36W)	4100 lm	700 lm	141 lm/W	50 °C	6,8 kg	1A400D
e864F 12L42/3/4	Frosted	29 W (2x36W)	4360 lm	750 lm	150 lm/W	55 °C	8 kg	1A4005
e864F 12L60/3/4	Frosted	41 W (2x58W)	6020 lm	750 lm	147 lm/W	55 °C	8 kg	1A4006
e864 12L42/3/4	Clear	29 W (2x36W)	4590 lm	800 lm	158 lm/W	55 °C	8 kg	1A4007
e864 12L60/3/4	Clear	41 W (2x58W)	6320lm	800 lm	155 lm/W	55 °C	8 kg	1A4008

EMERGENCY LIGHT FITTINGS SERIES EXELED 1 N E864

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

	TECHNICAL SPECIFICATIONS
Marking:	II 2G Ex db eb [ib] mb op is q IIC T4 Gb II 2D Ex op is tb IIIC T80°C Db
Certificate:	EU-Type Examination Certificate
Housing:	Glass fibre reinforced polyester. Stainless steel clips (KE), two of them as safety clip (KES), to be opened with screwdriver only
Cover:	Injected polycarbonate, frosted (F) or clear Silicone gasket
Reflector:	Sheet Steel, painted, carrying the encapsulated LED-modules, clipped into the cover, suspendable
LED:	$\label{eq:Linemodules} Line modules Clear cover: 6500K, Frosted cover: 6000K CRI > 80 \\ L_{80} > 100.000h at max. ambient temperature \\ L_{90} > 95.000h (06L), L_{90} > 85.000h (12L) each at 25°C ambient temperature \\ L_{90} > 95.000h (06L), L_{90} > 85.000h (12L) each at 25°C ambient temperature \\ L_{90} > 95.000h (06L), L_{90} > 85.000h (12L) each at 25°C ambient temperature \\ L_{90} > 95.000h (06L), L_{90} > 85.000h (12L) each at 25°C ambient temperature \\ L_{90} > 95.000h (06L), L_{90} > 85.000h (12L) each at 25°C ambient temperature \\ L_{90} > 95.000h (06L), L_{90} > 85.000h (12L) each at 25°C ambient temperature \\ L_{90} > 95.000h (06L), L_{90} > 85.000h (12L) each at 25°C ambient temperature \\ L_{90} > 95.000h (06L), L_{90} > 85.000h (12L) each at 25°C ambient temperature \\ L_{90} > 95.000h (06L), L_{90} > 85.000h (12L) each at 25°C ambient temperature \\ L_{90} > 95.000h (06L), L_{90} > 85.000h (12L) each at 25°C ambient temperature \\ L_{90} > 95.000h (06L), L_{90} > 85.000h (12L) each at 25°C ambient temperature \\ L_{90} > 95.000h (06L), L_{90} > 85.000h (12L) each at 25°C ambient temperature \\ L_{90} > 95.000h (12L) each at 25°C ambient temperature \\ L_{90} > 95.000h (12L) each at 25°C ambient temperature \\ L_{90} > 95.000h (12L) each at 25°C ambient temperature \\ L_{90} > 95.000h (12L) each at 25°C ambient temperature \\ L_{90} > 95.000h (12L) each at 25°C ambient temperature \\ L_{90} > 95.000h (12L) each at 25°C ambient temperature \\ L_{90} > 95.000h (12L) each at 25°C ambient temperature \\ L_{90} > 95.000h (12L) each at 25°C ambient temperature \\ L_{90} > 95.000h (12L) each at 25°C ambient temperature \\ L_{90} > 95.000h (12L) each at 25°C ambient temperature \\ L_{90} > 95.000h (12L) each at 25°C ambient temperature \\ L_{90} > 95.000h (12L) each at 25°C ambient temperature \\ L_{90} > 95.000h (12L) each at 25°C ambient temperature \\ L_{90} > 95.000h (12L) each at 25°C ambient temperature \\ L_{90} > 95.000h (12L) each at$
Battery:	NiCd, electronic charger, short circuit protected battery andreverse battery protection
Re-charging time:	24 h, acc. to EN 60598-2-22
Operating temperature:	-30°C to +55°C. Nominal range acc. to EN 60598-2-22 0°C up to 45°C, reduced emergency light duration if operated below 0°C
Operating frequency:	50/60 Hz
Rated voltage:	220/240V AC
Ingress protection:	IP66
Automatic monitoring:	Of the emergency light fitting according to EN 62034, indica-tion of the test results by 2-coloured LED (luminescence diode) at the luminaire
Connection:	4 poles up to 4 mm ²
Cable entries:	2xM25x1,5 (2 plastic cable glands - 1 of them is plugged)



ACCESSORIES				
Designation:	Item No.:			
2 suspension brackets, stainless steel	H8V P			
2 ceiling brackets, hot galvanized steel	15A P			
2 ceiling brackets, stainless steel	15AV P			
2 pipe clamps 1 1/2", stainless steel, with support	RO84 112 A P			
2 pipe clamps 2", stainless steel, with support	R084 2 A P			
2 retaining clips for variable mounting distances	HK 865 P			
2 wall mounting angles	W26 P			
2 wall mounting angles 30°	W26/30 P			
2 wall mounting angles 45°	W26/45 P			



EMERGENCY LIGHT FITTINGS SERIES EXELED 2 N ND867

Zones 2, 22

Full catalogue available on our website: www.inpratex.com

ATEX EMERGENCY LIGHT FITTINGS ZONES 2 (gas) & 22 (dust)

Emergencies are extraordinary situations. When the lighting fails, panic can quickly ensue. Emergency lighting that is fail-safe and reliable can be a matter of life and death. Here the product series ExeLed 2 N, with its automatic self-monitoring and regular function and duration tests, is an excellent choice. Dependable, extremely long-lasting and extraordinarily efficient, it offers the necessary reliability in an emergency.

Maintained operation: switching over to battery operation in case of mains failure, line modules will be operated with reduced luminous flux as emergency lighting. Stand-by operation: switching on in case of mains failure.





Options: dimmable via DALI-interface (DIMD)

Standard version with integrated battery or separate battery box version for high temperatures.

* This light fitting is not suitable for applications in areas with permanent high humidity in combination withonly short periods of operation, such as sewage orstormwater retention tanks or water treatment plants.

ITEM REFERENCES (STANDARD VERSION)								
Designation:	Cover:	Power: (substitute for)	Luminous flux:	Luminous flux (Emergency):	Luminous efficacy:	т. Мах:	Weight:	Item No.:
1h operation time								
nD867F 06L22/1/4	Frosted	16 W (2x18W)	2170 lm	650 lm	136 lm/W	40 °C	4,2 kg	1A390A
nD867F 06L42/1/4	Frosted	29 W (2x36W)	4360 lm	750 lm	150 lm/W	40 °C	4,4 kg	1A390B
nD867F 12L42/1/4	Frosted	29 W (2x36W)	4360 lm	750 lm	150 lm/W	40 °C	6,3 kg	1A3901
nD867F 12L60/1/4	Frosted	41 W (2x58W)	6020 lm	750 lm	147 lm/W	40 °C	6,3 kg	1A3902
nD867 12L42/1/4	Clear	29 W (2x36W)	4590 lm	800 lm	158 lm/W	40 °C	6,3 kg	1A3903
nD867 12L60/1/4	Clear	41 W (2x58W)	6320 lm	800 lm	155 lm/W	40 °C	6,3 kg	1A3904
3h operation time		·						
nD867F 06L22/3/4	Frosted	16 W (2x18W)	2170 lm	650 lm	136 lm/W	40 °C	4,2 kg	1A390C
nD867F 06L42/3/4	Frosted	29 W (2x36W)	4360 lm	750 lm	150 lm/W	40 °C	4,4 kg	1A390D
nD867F 12L42/3/4	Frosted	29 W (2x36W)	4360 lm	750 lm	150 lm/W	40 °C	6,3 kg	1A3905
nD867F 12L60/3/4	Frosted	41 W (2x58W)	6020 lm	750 lm	147 lm/W	40 °C	6,3 kg	1A3906
nD867 12L42/3/4	Clear	29 W (2x36W)	4590 lm	800 lm	158 lm/W	40 °C	6,3 kg	1A3907
nD867 12L60/3/4	Clear	41 W (2x58W)	6320 lm	800 lm	155 lm/W	40 °C	6,3 kg	1A3908

ITEM REFERENCES (BATTERY BOX VERSION)								
Designation:	Cover:	Power: (substitute for)	Luminous flux:	Luminous flux Emergencia:	Luminous efficacy:	T. Max:	Weight:	Item No.:
1h operation time	h operation time							
nD867F 06L22/1/4 H	Frosted	16 W (2x18W)	2170 lm	650 lm	136 lm/W	55 °C	5,2 kg	1A390E
nD867F 06L42/1/4 H	Frosted	29 W (2x36W)	4360 lm	750 lm	150 lm/W	55 °C	5,4 kg	1A390F
nD867F 12L42/1/4 H	Frosted	29 W (2x36W)	4360 lm	750 lm	150 lm/W	55 °C	7,3 kg	1A3909
nD867F 12L60/1/4 H	Frosted	41 W (2x58W)	6020 lm	750 lm	147 lm/W	55 °C	7,3 kg	1A3910
nD867 12L42/1/4 H	Clear	29 W (2x36W)	4590 lm	800 lm	158 lm/W	55 °C	7,3 kg	1A3911
nD867 12L60/1/4 H	Clear	41 W (2x58W)	6320 lm	800 lm	155 lm/W	55 °C	7,3 kg	1A3912
3h operation time								
nD867F 06L22/3/4 H	Frosted	16 W (2x18W)	2170 lm	650 lm	136 lm/W	55 °C	5,2 kg	1A390G
nD867F 06L42/3/4 H	Frosted	29 W (2x36W)	4360 lm	750 lm	150 lm/W	55 °C	5,4 kg	1A390H
nD867F 12L42/3/4 H	Frosted	29 W (2x36W)	4360 lm	750 lm	150 lm/W	55 °C	7,3 kg	1A3913
nD867F 12L60/3/4 H	Frosted	41 W (2x58W)	6020 lm	750 lm	147 lm/W	55 °C	7,3 kg	1A3914
nD867 12L42/3/4 H	Clear	29 W (2x36W)	4590 lm	800 lm	158 lm/W	55 °C	7,3 kg	1A3915
nD867 12L60/3/4 H	Clear	41 W (2x58W)	6320 lm	800 lm	155 lm/W	55 °C	7,3 kg	1A3916

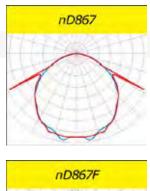
EMERGENCY LIGHT FITTINGS SERIES EXELED 2 N ND867

Zones 2, 22

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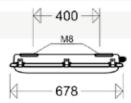
TECHNI	CAL SPECIFICATIONS
Marking:	E II 3G Ex ec IIC T4 Gc
Certificate:	EU-Type Examination Certificate
Housing:	Glass fibre reinforced polyester resin. Version H with separate battery box at one small side of the housing. Stainless steel clips (KE), two of them as safety clip (KES), to be opened with screwdriver only.
Cover:	Injected polycarbonate, frosted (F) or clear, silicone gasket.
Reflector:	Sheet Steel, painted, carrying the LED-modules and all electrical components, clipped into the cover, suspendable.
LED:	Line modules 5000K, CRI > 80. Lifetime L80 > 100.000h at max. ambient temperature L_{90} > 90.000h (06L) L_{90} > 75.000h (12L) at 25°C ambient temperature
Battery:	NiCd, electronic charger, short circuit protected battery andreverse battery protection
Re-charging time:	24 h, acc. to EN 60598-2-22
Operating temperature:	-30°C to +55°C. Reduced emergency light duration if operated below 0°C. For nD867 H nominal range acc. to EN60598-2-22, 0°C up to 45°C.
Operating frequency:	50/60 Hz
Rated voltage:	220/240V AC, 50-60Hz
Ingress protection:	IP66
Automatic monitoring:	of the emergency light fitting according to EN 62034, indica-tion of the test results by 2-coloured LED (luminescence diode) at the luminaire
Connection:	4 poles up to 2,5 mm ²
Mechanical installation:	Standard: Facing downwards or forwards Direct ceiling mounting is possible. Rubber washers are included. Further mounting options see accessories
Cable entries:	3xM25x1,5 (2 plastic cable glands - one of them is plugged). Versions H with 2 x M25 x 1,5 at the front end of the light fitting

ACCESSORIES					
Designation:	Item No.:				
2 suspension brackets, stainless steel	H8V P				
2 ceiling brackets, hot galvanized steel	15A P				
2 ceiling brackets, stainless steel	15AV P				
2 pipe clamps 1 ½", stainless steel, with support	R084 112 A P				
2 pipe clamps 2", stainless steel, with support	R084 2 A P				
2 retaining clips for variable mounting distances	HK 865 P				
2 wall mounting angles	W26 P				
2 wall mounting angles 30°	W26/30 P				
2 wall mounting angles 45°	W26/45 P				

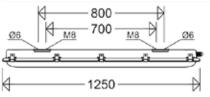




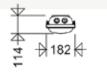
nD867... 06L. (without battery box)



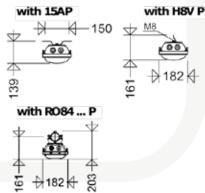
nD867... 12L. (without battery box)



with HK865 P









COMPACT LED EMERGENCY LIGHT FITTINGS SERIES ND8611

Zones 2, 22

Full catalogue available on our website: www.inpratex.com

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Declaration of Conformity

ATEX EMERGENCY LIGHT FITTINGS ZONES 2 (gas) & 22 (dust)

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Outstanding visibility of the indication sign due to a superb and even illumination of the

Compact LED Emergency and Escape Sign Light Fitting for illumination of escape routes and for identification of escape routes in hazardous locations.

2 Modes of operation:

- Stand-by operation: Emergency light switches on in case of mains failure

ND8611...LED

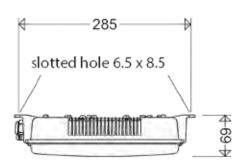
- Maintained operation: Switching over to battery operation in case of mains failure

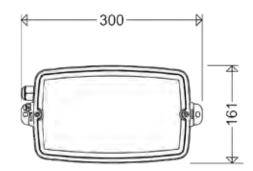
Automatic monitoring the emergency light fitting acc. to EN 62034. Indication of the test results by 2-colour LED on the light fitting.

pictogram. Stable luminous flux in emergency operation.

ITEM REFERENCES							
Designation:	Power consumption:	Emergency operation:	Luminous flux:	Luminous flux (emergency):	Luminous efficacy:	Weight:	Item No.:
nD8611 L02/1W	5W	1h NiMH	150 lm	150 lm	30 lm/W	1 kg	1A2303
nD8611 L02/3W	5W	3h NiMh	150 lm	150 lm	30 lm/W	1,2 kg	1A2304

TECHNICAL SPECIFICATIONS					
Marking:	EX II 3G Ex nR IIC T4 Gc				
Certificate:	Declaration of Conformity				
Operating temperature:	-5°C to +30°C (maintained operation) 0°C to +40°C (standby operation)				
Operating conditions:	Indoor / Outdoor				
Housing:	Diecast aluminium, natural finish				
Cover:	Polycarbonate opalescent white (Pictograms, if required, to be ordered separately)				
Impact protection:	4 J (at the temperature of -5°C no IK rating given; the 4 J are defined in the ex-proof regulation)				
LED:	Linear module 6.500K, CRI > 80, L80 > 50.000h at max. ambient temperature				
Battery:	Built-in NiMH. A constant trickle charge to the battery ensures readiness of operation at all times.				
Recharging time:	24 h				
Operating frequency:	50/60 Hz				
Rated voltage:	220-240 V AC				
Ingress protection:	IP65				
Connection terminals:	3 or 4 poles, clamping range max. 2,5mm ² .				
Cable entries:	1xM20x1,5 plastic cable gland				





<2 S→ V2	Self-adhesive pictogram:	Item No.:	
Self-adhesive pictogram for marking escape routes acc.to DIN EN ISO 7010 and ASR A1.3. Viewing = 22m.	Emergency exit to the left	220/110/33	
	Emergency exit to the right	220/110/34	
	Emergency exit below	220/110/35	

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LED FLOODLIGHT SERIES E8820 EXSTREAM

Zones 1, 2, 21, 22

ATEX FLOODLIGHTS

ZONES 1, 2 (gas) & 21, 22 (dust)

Robust, highly efficient and extremely durable, these are the outstanding properties of the explosion-proof LED floodlight series ExSTREAM. A cooling rib structure that completely encloses each housing segment characterises the design of the Ex light fitting.

The result is excellent heat dissipation, supported by good convection and thus additional cooling of each luminaire segment. In conjunction with high-quality LEDs and electronic ballasts, these are the best prerequisites for a long service life, even at high temperatures. Thanks to the modular structure, you can choose the luminous flux that you need for your project and can therefore efficiently replace conventional luminaires with high pressure sodium vapor lamps up to at least 400W.

Ease of assembly and maintenance were also the focus of the development of the ExSTREAM.

The large connection space with two cable entries not only enables comfortable electrical connection, but also cost-saving in-out wiring without additional junction boxes.

With the mounting bracket, which can be swiveled in 5° steps, the floodlight can be adjusted quickly and easily as required.

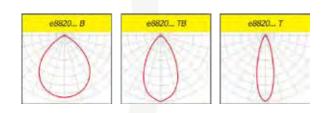




Options:

- ECG with DALI interface for dimming (DIMD)

- for ambient temperatures down to -40°C
- seawater-resistant version (SWP)



ITEM REFERENCES						
Designation:	Power:	Lumin. flux:	Efficacy lm/W:	T. max.	Weight:	Item No.:
	wide	e beam (available in	2 versions: with 3 or	6 LED modules)		
e8820/3 L120B H55	87W	11.850 lm	136	55°C	15 kg	1B1301
e8820/3 L150B	125W	15.800 lm	126	40°C	15 kg	1B1302
e8820/6 L240B H55	174W	23.700 lm	136	55°C	21 kg	1B1303
e8820/6 L300B	250W	31.600 lm	126	40°C	21 kg	1B1304
	narrow	wide beam (availabl	e in 2 versions: with	3 or 6 LED modules)		
e8820/3 L120TB H55	87W	11.100 lm	128	55°C	15 kg	1B1305
e8820/3 L150TB	125W	14.650 lm	117	40°C	15 kg	1B1306
e8820/6 L240TB H55	174W	22.200 lm	128	55°C	21 kg	1B1307
e8820/6 L300TB	250W	29.300 lm	117	40°C	21 kg	1B1308
	narro	w beam (available ii	n 2 versions: with 3 c	or 6 LED modules)		
e8820/3 L120T H55	87W	10.300 lm	118	55°C	15 kg	1B1309
e8820/3 L150T	125W	13.500 lm	108	40°C	15 kg	1B1310
e8820/6 L240T H55	174W	20.600 lm	118	55°C	21 kg	1B1311
e8820/6 L300T	250W	27.000 lm	108	40°C	21 kg	1B1312

LED FLOODLIGHT SERIES E8820 EXSTREAM

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

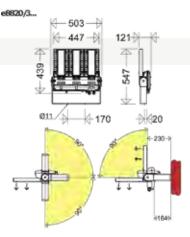
Product highlights:

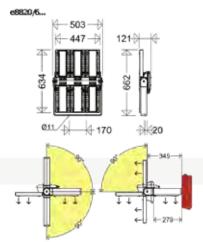
- robust, modular design
- highly efficient due to the use of high quality MID-Power LEDs
- extremely long lifetime even at maximum permissible ambient temperature
- optimized thermal management
 - direct mounting of the LED modules to the aluminum housing
 - separate housings for ECG- and LED-modules
 - LED housing with integrated cooling fin structure
 - large cooling surface, excellent heat dissipation, very good convection

• colour rendering index CRI > 80, according to the workplace guide lines suitable for nearly all plant locations

- homogeneous and effective light distribution by specially calculated lens optics
- inclination angle adjustable in 5 steps
- sustainable, components interchangeable

• eco-friendly with 0 installation (plane surface floodlights), no light emission into the upper half-space, Dark-Sky requirements are fulfilled





	TECHNICAL SPECIFICATIONS
Marking:	II 2G Ex eb mb q IIC T4 Gb II 2D Ex tb IIIC T100 °C Db
Certificate:	EU-Type Examination Certificate
Housing:	Die-cast aluminum, multi-part, thermally separated, powder-coated DB702 (mica-iron paint, grey)
LED housing:	With LED modules, optics and safety glass
Device housing:	With built-in control gear, wired ready for connection
Front cover:	Thermally resistant safety glass, impact resistance IK08
LED:	LED-module approx. 5,500K (TB- and B-optics) or approx. 6,500K (T-optics) , CRI > 80, life cycle $L_{70}B_{10} > 100.000h$, $L_{80}B_{50} > 100.000h$ at max. ambient temperature
Operating temperature:	-30°C up to +40°C/+55°C (see item tables)
Operating frequency:	0 or 50-60Hz
Rated voltage:	220 - 240V AC/DC overvoltage, overload and short circuit protection
Ingress protection:	IP66
Mounting:	Stainless steel bracket, adjustable in 5° steps around the longitudinal axis of the floodlight
Standard mounting:	Light beam downwards or horizontally
Connection:	5 poles, max. clampingrange 4mm ²
Cable entries:	2xM25X1,5 (2 glands - one of them is plugged)

BAT86 SERIES LED FLOODLIGHTS

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

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EU-Type Examination Certificate

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ATEX FLOODLIGHTS

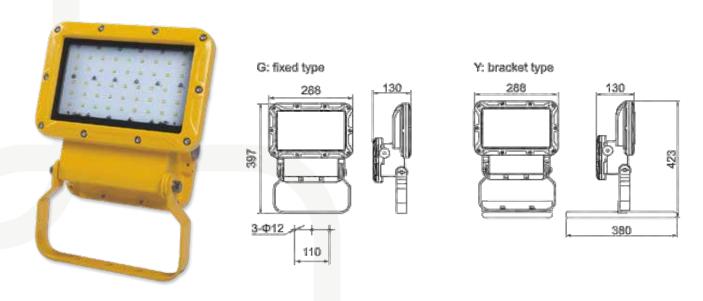
ZONES 1, 2 (gas) & 21, 22 (dust)

Explosion-proof LED floodlight for hazardous locations of Zones 1,2 (gas atmosphere) and 21,22 (dust atmosphere).Copper-free aluminium housing, powder coated surface (yellow RAL 1021).

Low-maintenance due to long service life is up to 100,000 operating hours.

Power factor ≥ 0,95

BAT86 - 90 | FIXED TYPE OR BRACKET TYPE



ITEM REFERENCES BAT86-90							
Designation:	Power:	Lumin. flux (lm):	Tempera	ture class:	Weight:	Item No.:	
			-60°C ≤ Ta ≤ +40°C	-60°C ≤ Ta ≤ +60°C			
BAT86-90-60G	60W	6500 lm	T6/T80°C	T4/T130°C	6,7 kg	1B0811	
BAT86-90-90G	90W	9550 lm	T6/T80°C	T4/T130°C	6,7 kg	1B0812	
BAT86-90-60Y	60W	6500 lm	T6/T80°C	T4/T130°C	8,5 kg	1B0813	
BAT86-90-90Y	90W	9550 lm	T6/T80°C	T4/T130°C	8,5 kg	1B0814	

	TECHNICAL SPECIFICATIONS
Marking:	II 2G Ex db IIB+H2 T6T4 Gb II 2D Ex tb IIIC T80°CT130°C Db
Certificate:	EU-Type Examination Certificate
Operating conditions:	Indoor / Outdoor
Housing:	Copper-free aluminium alloy, powder coated surface (yellow RAL1021). Exposed fastener in stainless steel
Cover:	Toughened glass, stands 4J impact
Operating frequency:	50/60 Hz
Rated voltage:	100~277V AC
LED:	LED module, Multiple LED, $R_a \ge 70, 5700 K$
Terminals:	3x1,5~4 mm² (L+N+PE)
Ingress protection:	IP66
Cable entries:	2xM25x1,5 (Plugs)

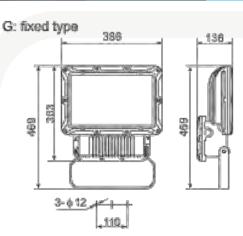
BAT86 SERIES LED FLOODLIGHTS

Zones 1, 2, 21, 22

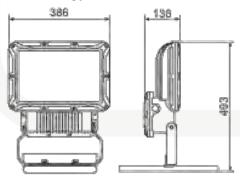
Full catalogue available on our website: www.inpratex.com

BAT86 - 160 | FIXED TYPE OR BRACKET TYPE





Y: bracket type



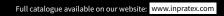
ITEM REFERENCES BAT86-160						
Designation:	Power:	Lumin. flux (lm):	Temperature class:		Weight:	Item No.:
			-60°C ≤ Ta ≤ +40°C	-60°C ≤ Ta ≤ +60°C		
BAT86-160-120G	120W	14400 lm	T6/T80°C	T5/T95°C	13 kg	1B0801
BAT86-160-160G	160W	19800 lm	T6/T80°C	T5/T95°C	13 kg	1B0802
BAT86-160-120Y	120W	14400 lm	T6/T80°C	T5/T95°C	14,8 kg	1B0803
BAT86-160-160Y	160W	19800 lm	T6/T80°C	T5/T95°C	14,8 kg	1B0804

	TECHNICAL SPECIFICATIONS
Marking:	Ex d IIB T6T5 Gb II 2D Ex tb IIIC T80°95° Db
Certificate:	EU-Type Examination Certificate
Operating conditions:	Indoor / Outdoor
Housing:	Copper-free aluminium alloy, powder coated surface (yellow RAL1021). Exposed fastener in stainless steel
Cover:	Toughened glass, stands 4J impact
Operating frequency:	50/60 Hz
Rated voltage:	100-277 V AC
LED:	LED module, Multiple LED, $R_a \ge 70, 5700K$
Terminals:	3x1,5~4 mm² (L+N+PE)
Ingress protection:	IP66
Cable entries:	2xM25x1,5 (Plugs)

BAT86 SERIES LED FLOODLIGHTS

Zones 1, 2, 21, 22

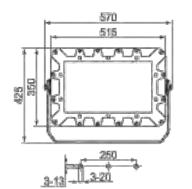
BAT86 - 240 | FIXED TYPE OR BRACKET TYPE



1 🐼 DNITHOL

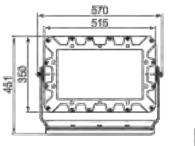


G: fixed type





Y: bracket type





ITEM REFERENCES BAT86-240						
Designation:	Power:	Lumin. flux (lm):	Temperat	ure class:	Weight:	Item No.:
			-60°C ≤ Ta ≤ +40°C	-60°C ≤ Ta ≤ +60°C		
BAT86-240-200G	200W	23600 lm	T6/T80°C	T4/T130°C	28 kg	1B0806
BAT86-240-240G	240W	28400 lm	T6/T80°C	T4/T130°C	28 kg	1B0807
BAT86-240-200Y	200W	23600 lm	T6/T80°C	T4/T130°C	29,5 kg	1B0809
BAT86-240-240Y	240W	28400 lm	T6/T80°C	T4/T130°C	29,5 kg	1B0810

	TECHNICAL SPECIFICATIONS
Marking:	(I) 2G Ex db IIB+H2 T6T4 Gb (I) 2D Ex tb IIIC T80°CT130°C Db
Certificate:	EU-Type Examination Certificate
Operating conditions:	Indoor / Outdoor
Housing:	Copper-free aluminium alloy, powder coated surface (yellow RAL1021). Exposed fastener in stainless steel
Cover:	Toughened glass, stands 4J impact
Operating frequency:	50/60 Hz
Rated voltage:	100~277V AC
LED:	LED module, Multiple LED, R _a ≥ 70, 5700K
Terminals:	3x1,5~4 mm² (L+N+PE)
Ingress protection:	IP66
Cable entries:	2xM25x1,5 (Plugs)

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX LIGHTING FIXTURES

ZONES 1, 2 (gas) & 21, 22 (dust)



Explosion-proof LED lighting certified for hazardous locations. Can be used as a floodlight or as a suspended light fixture.

Copper-free aluminium cover, powder coated surface (yellow RAL 1021).

Toughened glass cover, stands 4J impact.

Different mounting methods (bracket type or hook type).

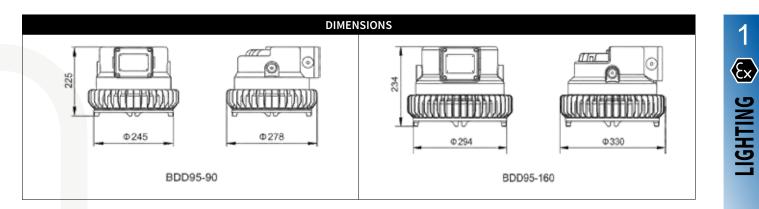


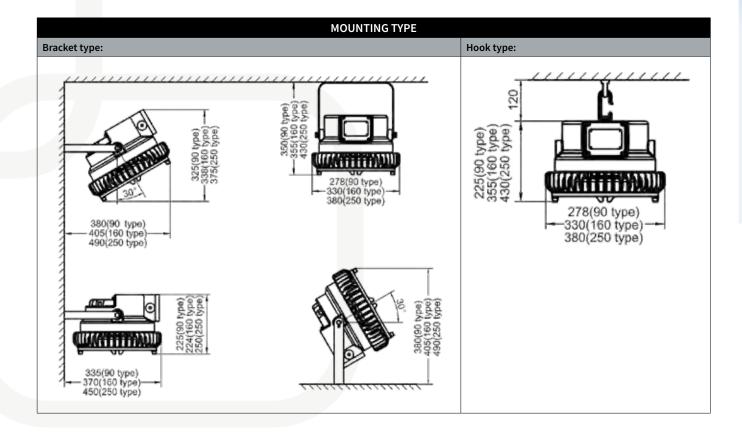
ITEM REFERENCES						
Designation:	Lamp:	Luminous flux:	Mounting methods:	Weight:	Item No.:	
BDD95-90-60K	60 W	6730 lm	Bracket	8,50 kg	1A3201	
BDD95-90-90K	90 W	10120 lm	Bracket	8,50 kg	1A3202	
BDD95-160-120K	120 W	13420 lm	Bracket	11,40 kg	1A3203	
BDD95-160-160K	160 W	17930 lm	Bracket	11,40 kg	1A3204	
BDD95-90-60D	60 W	6730 lm	Hook	8,10 kg	1A3205	
BDD95-90-90D	90 W	10120 lm	Hook	8,10 kg	1A3206	
BDD95-160-120D	120 W	13420 lm	Hook	10,80 kg	1A3207	
BDD95-160-160D	160 W	17930 lm	Hook	10,80 kg	1A3208	

TECHNICAL SPECIFICATIONS						
	Marking:					
Power 60W	 II 2G Ex db e IIC T67°C (T6) Gb; II 2D Ex tb IIIC T62°C Db IP66 (-40°C ≤Ta≤ +40°C) II 2G Ex db e IIC T82°C (T6) Gb; II 2D Ex tb IIIC T77°C Db IP66 (-40°C ≤Ta≤ +55°C) 					
Power 90W	 II 2G Ex db e IIC T87°C (T5) Gb; II 2D Ex tb IIIC T82°C Db IP66 (-40°C ≤Ta≤ +40°C) II 2G Ex db e IIC T102°C (T4) Gb; II 2D Ex tb IIIC T97°C Db IP66 (-40°C ≤Ta≤ +55°C) 					
Power 120W	 II 2G Ex db e IIC T72°C (T6) Gb; II 2D Ex tb IIIC T67°C Db IP66 (-40°C ≤Ta≤ +40°C) II 2G Ex db e IIC T87°C (T5) Gb; II 2D Ex tb IIIC T82°C Db IP66 (-40°C ≤Ta≤ +55°C) 					
Power 160W	 II 2G Ex db e IIC T92°C (T5) Gb; II 2D Ex tb IIIC T87°C Db IP66 (-40°C ≤Ta≤ +40°C) II 2G Ex db e IIC T107°C (T4) Gb;II 2D Ex tb IIIC T102°C Db IP66 (-40°C ≤Ta≤ +55°C) 					
Certificate:	EU-Type Examination Certificate					
Operating conditions:	Indoor / Outdoor					
Housing:	Copper-free aluminium (yellow RAL1021)					
Operating temperature:	-40°C to +55°C					
Operating frequency:	50/60 Hz					
Rated voltage:	100-300 V AC					
Ingress protection:	IP66					
Colour temperature:	5400-6500K					
Connection:	3x1,5~4 mm ² (L+N+PE)					
Earthing protection:	M5 (internal & external earth bolts)					
Cable entries:	2xM25x1,5 Plugs					

BDD95 SERIES LED LIGHTINGS

Zones 1, 2, 21, 22







Zones 1, 2, 21, 22

ATEX FLOODLIGHTS

ZONES 1, 2 (gas) and 21, 22 (dust)

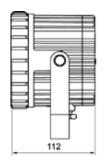


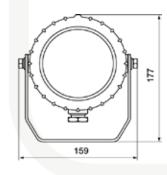
Compact and handy ATEX floodlight certified for hazardous areas. Enclosure in copper-free aluminium (yellow RAL 1021). Toughened glass cover, stands 4J impact.



		ITEM REFERENCES		
Designation:	Power:	Luminous flux:	Rated voltage:	Item No.:
BAK85-9/277	9 W	912 lm	100~277V AC / 50/60 Hz	1H0301
BAK85-9/48	9 W	912 lm	24V DC	1H0302

	TECHNICAL SPECIFICATIONS
Marking:	II 2G Ex db op is IIC T6 Gb
Certificate:	EU-Type Examination Certificate
Housing:	Copper-free aluminium. Exposed fastener in stainless steel
Cover:	Toughened glass cover, stands 4J impact
LED:	5700 K
Operating conditions:	-40°C to +55°C
Ingress protection:	IP66/IP67
Connection:	3 terminals 1,5~2,5 mm ² (L+N+PE)
Power factor:	≥ 0,95
Earthing protection:	M5 internal & external earth bolts
Weight:	2,20 kg
Cable entries:	1xM20x1,5 Supplied with seal gasket and gland nut. Applicable cable outer diameter Ø6 ~ Ø12 mm







Zones 2, 22

ATEX FLOODLIGHTS



ZONES 2 (gas) & 22 (dust)

LED Floodlight / plane surface floodlight for hazardous locations of Zones 2 (gas atmosphere) and 22 (dust atmosphere), stockyards, building sites, open-air grounds, chemical and petrochemical areas, etc.

Housing and glass retaining frame made from diecast aluminium. Thermal safety glass, impact resistance IK10.

Lens optics:

Wide, narrow-wide, narrow, or asymmetric light distribution.



Declaration of Conformity

Options: dimmable via DALI-interface (DIMD)

		ITEM REF	ERENCES		
Designation:	Power:	Lumin. flux (lm):	Efficacy lm/W:	Weight (kg):	Item No.:
	•	wide	beam		
nD8700 4803	106W	15.200	143	9,7	1B1101
nD8700 6403	140W	20.000	143	9,7	1B1102
		narrow w	ide beam		
nD8700 4803TB	106W	15.200	143	9,7	1B1103
nD8700 6403TB	140W	20.000	143	9,7	1B1104
	·	narrow	beam		·
nD8700 4803T	106W	15.200	143	9,7	1B1105
nD8700 6403T	140W	20.000	143	9,7	1B1106
	·	asymmetrical beam (pl	ane surface floodlight)	-	•
nD8700 4803A	106W	15.200	143	9,7	1B1107
nD8700 6403A	140W	20.000	143	9,7	1B1108



Marking:

Certificate:

Operating temperature:

Operating frequency:

Ingress protection:

Rated voltage:

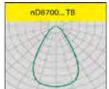
Connection:

Cable entries:

Housing:

Cover:

LED:



TECHNICAL SPECIFICATIONS

-30°C to +40°C

* Due to the inrush current of the electronic ballasts, the maximum permissible number of light fittings per circuit breaker is limited. Surge voltage resistance 10kV, excess temperature protection,

50/60 Hz

IP66

overload and short circuit protection, temperature monitoring of the LED modules.

220/240V *

II 3G Ex nR IIC T4 Gc

😥 II 3D Ex tc IIIC T100°C Dc

Zhaga compliant 4,000K, R_>70

1xM20X1,5 plastic cable gland

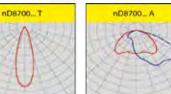
Diecast aluminium, DB 702 (mica-iron paint)

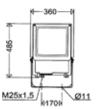
Flat safety glass pane, impact resistance IK10

L₁₀> 100.000h at max. ambient temperature

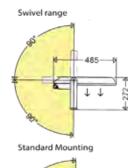
3-pole terminal max. clamping range 2,5mm²

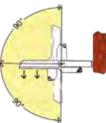
Declaration of Conformity











Zones 2, 22

ATEX FLOODLIGHTS

ZONES 2 (gas) & 22 (dust)

LED Floodlight / plane surface floodlight for hazardous locations of Zones 2 (gas atmosphere) and 22 (dust atmosphere), stockyards, building sites, open-air grounds, chemical and petrochemical areas, etc.

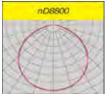
Housing and glass retaining frame made from diecast aluminium.

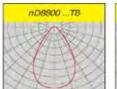
Thermal safety glass (IK09).

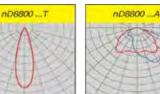


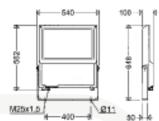
Options: dimmable via DALI-interface (DIMD)

ITEM REFERENCES					
Designation:	Power:	Lumin. flux (lm):	umin. flux (lm): Efficacy lm/W:		Item No.:
wide beam					
nD8800 6403	140W	20.500	146	15,9	1B1001
nD8800 12803	280W	39.500	141	17,1	1B1002
		narrow w	ide beam		
nD8800 6403TB	140W	20.500	146	15,9	1B1003
nD8800 12802TB	280W	39.500	141	17,2	1B1004
		narrow	<i>i</i> beam		
nD8800 6403T	140W	20.500	146	15,9	1B1005
nD8800 12802T	280W	39.500	141	17,2	1B1006
asymmetrical beam (plane surface floodlight)					
nD8800 6403A	140W	20.500	146	15,9	1B1007
nD8800 12802A	280W	39.500	141	17,2	1B1008



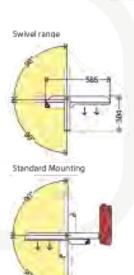






TECHNICAL SPECIFICATIONS					
Marking:	arking:				
Certificate:	Declaration of Conformity				
Housing:	Diecast aluminium, DB 702 (mica-iron paint)				
Cover:	Thermal safety glass, impact resistance IK09				
LED: Zhaga compliant 4,000K, R _a >70 L ₃₀ > 100.000h at max. ambient temperature					
Operating temperature:	-30°C to +40°C				
Operating frequency:	50/60 Hz				
Rated voltage:	220/240V *				
Ingress protection:	IP66				
Connection: 3-pole terminal, max. clamping range 2,5mm ²					
Cable entries: 1xM25X1,5 plastic cable gland					

* Due to the inrush current of the electronic ballasts, the maximum permissible number of light fittings per circuit breaker is limited. Surge voltage resistance 10kV, excess temperature protection, overload and short circuit protection, temperature monitoring of the LED modules.



LED FLOODLIGHT SERIES EXP 17 MLED

Zones 2, 22

ATEX FLOODLIGHTS



ZONES 2 (gas) & 22 (dust)

The EXP 17 MLED luminaire is designed to light the industrial areas and facilities, also outdoor spaces with an explosion hazard of gases, vapours and flammable fogs mixed with air and inflammable dust and fibers mixed with air.

Luminaire equipped with lens mounted on LED panel for light pattern shapping and reducing glare.

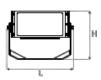
Available in 1,2 or 3 modules version.

DALI system and Colour temperature 3000K on request.

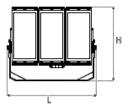


ITEM REFERENCES					
Designation:	Modules:	Power:	Lumin. flux:	Weight:	Item No.:
EXP 17 MLED1/0406/7/740/N	1	45 W	7200 lm	7,5 kg	1B1401
EXP 17 MLED2/0796/7/740/N	2	85 W	14000 lm	11 Kg	1B1402
EXP 17 MLED3/1196/7/740/N	3	130 W	21000 lm	17 kg	1B1403

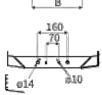
	TECHNICAL SPECIFICATIONS
Marking:	II 3G Ex ec IIC T4 Gb II 3D Ex tc IIIC T100°C Dc
Certificate:	Declaration of Conformity
Operating temperature:	-30°C to +45°C
Housing:	Aluminium, powder painted
Diffuser:	Strengthened glass
Bracket:	Steel, powder painted
Rated voltage:	220-240V AC/DC
LED:	CRI: 70 / Lifetime: 130 000 h / Colour temp.: 4000K / Optics: narrow, symmetrical "N"
Terminals:	2x 3~4 mm ²
Ingress protection:	IP66
Cable entries:	2xM20x1,5 (plastic cable glands 6-12 mm)







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DIMENSIONS (mm)				
	L	В	Н	
EXP 17 MLED1	388	147	340	
EXP 17 MLED2	312	153	407	
EXP 17 MLED3	526	204	436	

Zones 2, 22

ATEX FLOODLIGHTS



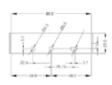
ZONES 2 (gas) & 22 (dust)

The AR-040 explosion-safe SpotLED combines high-performance and energy-efficiency with state-of-the-art LED technology, making it suitable for a wide range of applications. The robust SpotLED can successfully be applied on construction sites, transport vehicles, forklifts, lathes, or milling machines or for the illumination of facades.

The SpotLED is available with LED optics with an angle of 10° (spotlight), 38° (wideangle light), or a combination of both (work light). The cable has a standard length of 5 meters. Due to the stainless steel bracket and the large 155° rotation angle, the SpotLED is suitable for mounting against walls or sloping surfaces.

The ATEX AR-040 SpotLED is certified in accordance with European Directive 2014/34/ EU for use in hazardous areas and is CE marked.

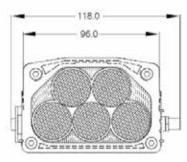


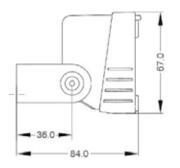




	ITEM REFERENCES	
Designation:	LED Optics:	Item No.:
AR-040/100	5 x 38°	1H0401
AR-040/110	5 x 10°	1H0402
AR-040/120	3 x 10° / 2 x 38°	1H0403

	TECHNICAL SPECIFICATIONS
Marking:	II 3G Ex ec IIC T4 Gc II 3D Ex tc IIIC T135°C Dc
Certificate:	Declaration of Conformity
Power supply:	12 - 30 VDC
Power consumption:	500 mA @ 24 VDC, 950 mA @ 12 VDC
Light source:	Cree 3 Watt PowerLEDs (5x), 780 Lumen
Beam angles:	10° - 38° (depending on the optics used)
Light color:	Neutral white (~6700 K)
Rotation angle:	-50° to +105°
Material:	Die cast aluminum housing and stainless steel bracket, RAL 7001, silver gray Polycarbonate impact-resistant safety glass
Ingress protection level:	IP67 according to EN 60529
Electrical connection:	Fixed cable, length 5 meters (brown = +24 VDC, white = 0 V, green = ground / earth)
Ambient temperature:	-30°C to +50°C
Dimensions:	120 x 62 x 87 mm
Weight:	540 gr





LED HIGH BAY LIGHT FITTINGS SERIES E8825 EXSTREAM

Zones 1, 2, 21, 22

ATEX PENDANT LIGHT FITTINGS

ZONES 1, 2 (gas) & 21, 22 (dust)

Robust, highly efficient and extremely durable, these are the outstanding properties of the explosion-proof LED floodlight series ExSTREAM. A cooling rib structure that completely encloses each housing segment characterises the design of the Ex light fitting.

The result is excellent heat dissipation, supported by good convection and thus additional cooling of each luminaire segment. In conjunction with high-quality LEDs and electronic ballasts, these are the best prerequisites for a long service life, even at high temperatures. Thanks to the modular structure, you can choose the luminous flux that you need for your project and can therefore efficiently replace conventional luminaires with high pressure sodium vapor lamps up to at least 400W.

Ease of assembly and maintenance were also the focus of the development of the ExSTREAM.

The large connection space with two cable entries not only enables comfortable electrical connection, but also cost-saving in-out wiring without additional junction boxes.

It can be attached to the ceiling using Y steel cables or brackets.



Options:

- ECG with DALI interface for dimming (DIMD)

- for ambient temperatures down to -40°C



	ITEM REFERENCES					
Designation:	Power:	Lumin. flux:	Efficacy lm/W:	T. max.	Weight:	Item No.:
	wide	e beam (available in	2 versions: with 3 or	6 LED modules)		
e8825/3 L120B H55	87W	11.850 lm	136	55°C	13 kg	1B1313
e8825/3 L150B	125W	15.800 lm	126	40°C	13 kg	1B1314
e8825/6 L240B H55	174W	23.700 lm	136	55°C	18 kg	1B1315
e8825/6 L300B	250W	31.600 lm	126	40°C	18 kg	1B1316
	narrow	wide beam (availabl	e in 2 versions: with	3 or 6 LED modules)		
e8825/3 L120TB H55	87W	11.100 lm	128	55°C	13 kg	1B1317
e8825/3 L150TB	125W	14.650 lm	117	40°C	13 kg	1B1318
e8825/6 L240TB H55	174W	22.200 lm	128	55°C	18 kg	1B1319
e8825/6 L300TB	250W	29.300 lm	117	40°C	18 kg	1B1320
	narro	w beam (available ii	n 2 versions: with 3 c	or 6 LED modules)		
e8825/3 L120T H55	87W	10.300 lm	118	55°C	13 kg	1B1321
e8825/3 L150T	125W	13.500 lm	108	40°C	13 kg	1B1322
e8825/6 L240T H55	174W	20.600 lm	118	55°C	18 kg	1B1323
e8825/6 L300T	250W	27.000 lm	108	40°C	18 kg	1B1324

LED HIGH BAY LIGHT FITTINGS SERIES E8825 EXSTREAM

Zones 1, 2, 21, 22

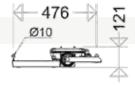
Product highlights:

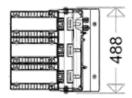
• robust, modular design

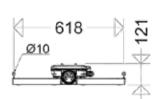
1 🚯 DILING

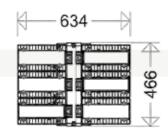
Full catalogue available on our website: www.inpratex.com

e8825/3...









	ACCESSORIES
Designation:	Туре:
3301/3302 Y P	1 pair of Y-ropes, (2-point-mounting) For indoor use only.
DW 8825 P	1 pair of ceiling brackets steel, powder-coated DB 702

Marking:	II 2G Ex eb mb q IIC T4 Gb II 2D Ex tb IIIC T100 °C Db
Certificate:	EU-Type Examination Certificate
Housing:	Die-cast aluminum, multi-part, thermally separated, powder-coated DB702 (mica-iron paint, grey)
LED housing:	With LED modules, optics and safety glass
Device housing:	With built-in control gear, wired ready for connection
Front cover:	Thermally resistant safety glass, impact resistance IK08
LED:	LED-module approx. 5,500K (TB- and B-optics) or approx. 6,500K (T-optics) , CRI > 80, life cycle $L_{70}B_{10} > 100.000h$, $L_{80}B_{50} > 100.000h$ at max. ambient temperature
Optics:	Lens optics with narrow, narrow-wide or wide beam light distribution, Multi-Layer technology.
Operating temperature:	-30°C up to +40°C/+55°C (see item tables)
Operating frequency:	0 or 50-60Hz
Rated voltage:	220 - 240V AC/DC overvoltage, overload and short circuit protection
Ingress protection:	IP66
Mounting:	See accessories (4 eyelets included)
Connection:	5 poles, max. clampingrange 4mm ²
Cable entries:	2xM25X1,5 (2 glands - one of them is plugged)

• highly efficient due to the use of high quality MID-Power LEDs

- separate housings for ECG- and LED-modules
- LED housing with integrated cooling fin structure
- large cooling surface, excellent heat dissipation, very good convection

• extremely long lifetime even at maximum permissible ambient temperature

• colour rendering index CRI > 80, according to the workplace guide lines suitable 68825/6... for nearly all plant locations

- homogeneous and effective light distribution by specially calculated lens optics
- sustainable, components interchangeable

LED HIGH BAY LIGHT FITTINGS SERIES ND8301/ND8302

Zones 2, 22

Full catalogue available on our website: www.inpratex.com

1

LIGHTING 😵

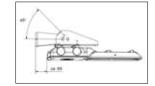


Explosion-proof LED high bay light fittings for hazardous locations, of Zones 2 (gas atmosphere) and 22 (dust atmosphere), for production halls and warehouses, in industrial sectors, workshops and chemical factories, etc.

Two versions are available: 1 or 2 LED wings for substitution of 250W / 400W high pressure discharge lamps.





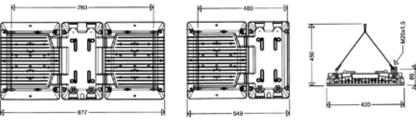


Note: Suitable for indoor use only.

	TECHNICAL SPECIFICATIONS	
Marking:	Ex II 3G Ex nR IIC T4 Gc II 3D Ex tc IIIC T100°C Dc	
Certificate:	Declaration of Conformity	
Housing:	Diecast aluminum, DB 702N (mica-iron paint)	
Cover:	Tempered safety glass (IK08)	
LED:	LED 4,000K, CRI >80, L ₇₀ > 100.000h Ambient temperature >50°, L ₇₀ > 90.000h	
Operating temperature:	-20°C to +40°C / +50°C / +60°C	
Operating frequency:	50/60 Hz	
Rated voltage:	220/240V AC*	
Ingress protection:	IP65	
Connection:	3 poles up to 2,5 mm ²	
Cable entries:	1xM25X1,5 plastic cable gland	
* Due to the inrush current of the electronic ballasts, the maximum permissible number of light fittings per circuit breaker is limited. urge voltage resistance 4kV, excess temperature protection, overload and short circuit protection.		

nD8302...

nD8301...



LED HIGH BAY LIGHT FITTINGS SERIES ND8301/ND8302

Zones 2, 22

nD830._.

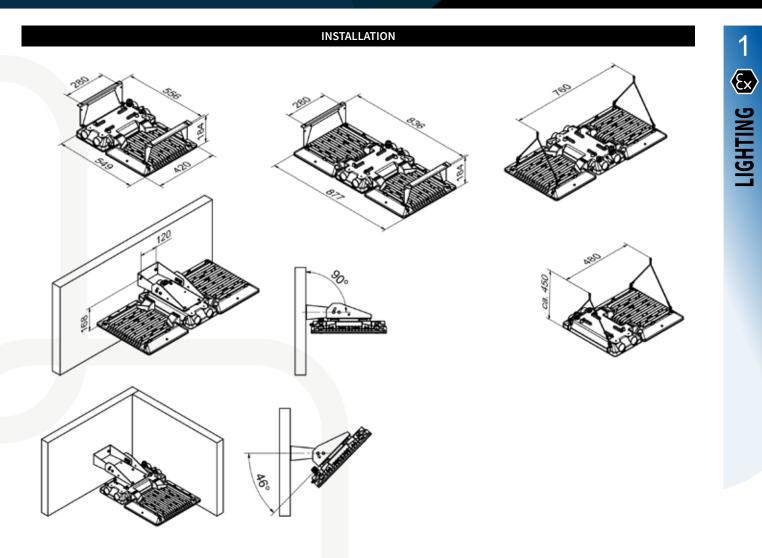


		20		150	1 A	\mathcal{I}	
			ITEM REFERE	NCES			
Designation:	Power:	Substitute for:*	Luminous flux:	Luminous efficacy:	T. Max:	Weight:	Item No.:
1 LED wing				1			
nD8301 L110	67 W	HME 250	10800 lm	161 lm/W	40 °C	8,9 kg	1B0911
nD8301 L160	96 W	HIT 250 / HME 400	15000 lm	156 lm/W	40 °C	8,9 kg	1B0912
nD8301 L210	135 W	HIE 400	20200 lm	150 lm/W	40 °C	8,9 kg	1B0913
nD8301 L110B	67 W	HME 250	10800 lm	161 lm/W	40 °C	9,2 kg	1B0914
nD8301 L160B	96 W	HIT 250 / HME 400	15000 lm	156 lm/W	40 °C	9,2 kg	1B0915
nD8301 L210B	135 W	HIE 400	20200 lm	150 lm/W	40 °C	9,2 kg	1B0916
nD8301 L110TB	67 W	HME 250	10800 lm	161 lm/W	40 °C	9,2 kg	1B0917
nD8301 L160TB	96 W	HIT 250 / HME 400	15000 lm	156 lm/W	40 °C	9,2 kg	1B0918
nD8301 L210TB	135 W	HIE 400	20200 lm	150 lm/W	40 °C	9,2 kg	1B0919
2 LED wing	<u>I</u>			11			1
nD8302 L320	192 W	HIT 400	30000 lm	156 lm/W	40 °C	14,5 kg	1B0920
nD8302 L420	270 W	2 x HIE 400	40400 lm	150 lm/W	40 °C	14,5 kg	1B0921
nD8302 L320B	192 W	HIT 400	30000 lm	156 lm/W	40 °C	14,6 kg	1B0922
nD8302 L420B	270 W	2 x HIE 400	40400 lm	150 lm/W	40 °C	14,6 kg	1B0923
nD8302 L320TB	192 W	HIT 400	30000 lm	156 lm/W	40 °C	14,6 kg	1B0924
nD8302 L420TB	270 W	2 x HIE 400	40400 lm	150 lm/W	40 °C	14,6 kg	1B0925
		For	ambient temperatu	ires up to +50°C			
1 LED wing							
nD8301 L110 H50	67 W	HME 250	10800 lm	161 lm/W	50 °C	8,9 kg	1B0926
nD8301 L160 H50	96 W	HIT 250 / HME 400	15000 lm	156 lm/W	50 °C	8,9 kg	1B0927
nD8301 L110B H50	67 W	HME 250	10800 lm	161 lm/W	50 °C	8,9 kg	1B0928
nD8301 L160B H50	96 W	HIT 250 / HME 400	15000 lm	156 lm/W	50 °C	8,9 kg	1B0929
nD8301 L110TB H50	67 W	HME 250	10800 lm	161 lm/W	50 °C	8,9 kg	1B0930
nD8301 L160TB H50	96 W	HIT 250 / HME 400	15000 lm	156 lm/W	50 °C	8,9 kg	1B0931
2 LED wing		,		,		, 0	
nD8302 L220 H50	134 W	HIE 400	21600 lm	161 lm/W	50 °C	14,5 kg	1B0932
nD8302 L320 H50	192 W	HIT 400	30000 lm	156 lm/W	50 °C	14,5 kg	1B0933
nD8302 L220B H50	134 W	HIE 400	21600 lm	161 lm/W	50 °C	14,6 kg	1B0934
nD8302 L320B H50	192 W	HIT 400	30000 lm	156 lm/W	50 °C	14,5 kg	1B0935
nD8302 L220TB H50	134 W	HIE 400	21600 lm	161 lm/W	50 °C	14,6 kg	1B0936
nD8302 L320TB H50	192 W	HIT 400	30000 lm	156 lm/W	50 °C	14,5 kg	1B0937
		For	ambient temperatu	· ·		, 8	
1 LED wing							
nD8301 L110 H60	67 W	HME 250	10800 lm	161 lm/W	60 °C	8,9 kg	1B0938
nD8301 L160 H60	96 W	HIT 250 / HME 400	15000 lm	156 lm/W	60 °C	8,9 kg	1B0939
nD8301 L110B H60	67 W	HME 250	10800 lm	161 lm/W	60 °C	9,2 kg	1B0940
nD8301 L110TB H60	67 W	HME 250	10800 lm	161 lm/W	60 °C	9,2 kg	1B0941
2 LED wing						-,- ··8	
nD8302 L220 H60	134 W	HIE 400	21600 lm	161 lm/W	60 °C	14,5 kg	1B0942
nD8302 L320 H60	194 W	HIT 400	30000 lm	156 lm/W	60 °C	14,5 kg	1B0942
nD8302 L220B H60	132 W	HIE 400	21600 lm	161 lm/W	60 °C	14,5 kg	1B0944
nD8302 L220B H60	134 W	HIE 400	21600 lm	161 lm/W	60 °C	14,6 kg	1B0944 1B0945
* The given informatio			21000 000	101 (11/ W		1-1,0 Kg	100343

LED HIGH BAY LIGHT FITTINGS SERIES ND8301/ND8302

Zones 2, 22

Full catalogue available on our website: www.inpratex.com



ACCCESSORIES				
Туре:	Designation:			
3301/3302 Y P	1 pair of Y-ropes, (2-point-mounting)			
3301/3302 D	1 pair of angle brackets for direct ceiling mounting			
3301 W	1 angle bracket, adjustable, for wall mounting series nD8301*			
3302 W 1 angle bracket, adjustable, for wall mounting series nD8302*				
* For mounting these brackets, additional mounting holes are required on the luminaire. Please indicate way of mounting when ordering the luminaire.				



Zones 1, 2, 21, 22

ATEX LIGHTING FIXTURES

ZONES 1, 2 (gas) & 21, 22 (dust)

Explosion-proof lighting fixtures for portholes, ideal for the optimum viewing area to be monitored.

The built-in switch version allows the lamp to be switched on and off directly from the observation point and the for the observation point and the for the necessary time.

The lamp can be replaced without removing the armor.

Epoxyvinyl internal white coating for optimal luminosity.

Lampholder E27.

External screws in stainless steel AISI 316.

Supplied without light sources.



ITEM REFERENCES								
Designation:	Lamp:	A:	ØB:	C:	D:	E:	Weight:	Item No.:
EVO 60I	Halogen <42 W	190	130	115	82	135	1,87 kg	1H0201
EVO 100I	Halogen <70 W	240	150	135	96	165	2,10 kg	1H0202

INSTALLATION / LAMP TYPE								
Installation:	Haloger	n <42 W:	Halogei	n <70 W:	Energy saving lamp / LED			
	24 V	220 V	24 V	220 V	24 V	220 V		
Vertical position	√	✓	√	√	✓	✓		
Horizontal position	\checkmark	\checkmark	x	x	\checkmark	\checkmark		

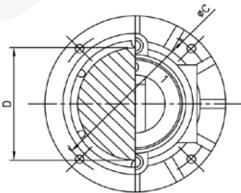
	TEMPERATURES								
Halogen <42 W:			Halogen <70 W:			Energy saving lamp / LED			
Temp. class	Max. Surf Temperature	Ambient Temperature	Temp. class	Max. Surf Ambient Temp. class Temperature			Max. Surf Temperature	Ambient Temperature	
T4	T85°C	-50°C to +40°C	Т3	T200°C	-50°C to +80°C	Т6	T85°C	-50°C to +50°C	
Т3	T100°C	-50°C to +80°C				T5	T100°C	-50°C to +60°C	
						T4	T135°C	-50°C to +80°C	

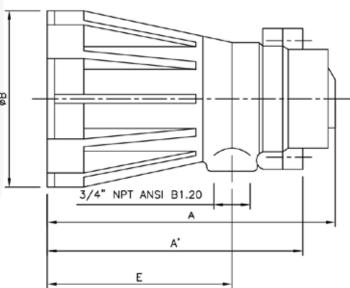
LIGHTING FIXTURES FOR PORTHOLES SERIES EVO

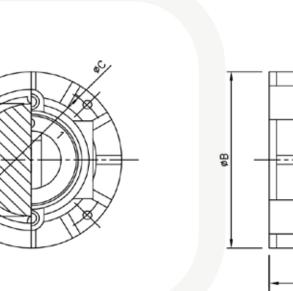
Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

	TECHNICAL SPECIFICATIONS					
Marking:	(EX) II 2G Ex d IIC T6-T3 Gb II 2D Ex tb IIIC T85°C-T200°C Db					
Certificate:	EU-Type Examination Certificate					
Housing:	Aluminium light alloy (RAL 7000)					
Cover:	Thermal safety glass					
Operating temperature:	-20°C to +40°C					
Ingress protection:	IP66/67					
Lamp Type:	Halogen, Energy saving lamp or LED					
Lamp holder:	E27					
Max. voltage:	24 - 230 V AC / 230 V DC					
Terminal section:	1,5 mm ²					
Maximum number of drivers:	3					
Cable entries:	1x3/4" NPT cable gland (not included)					









LED PORTABLE LAMP E9310F

Zones 1, 2, 21, 22

ATEX PORTABLE LAMPS

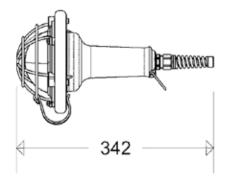
ZONES 1, 2 (gas) & 21, 22 (dust)

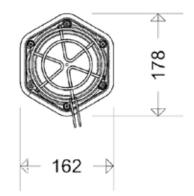
Explosion-protected LED handlamp for ATEX zones 1/2 (gas) and 21/22 (dust). Handle made of rubber (EPDM) with suspension eye, strain relief and cable entry. Electrical kit made of die-cast aluminium with LED module and integrated ECG. Frosted PC cover, wire guard made of galvanised steel with hook for hanging up the handlamp.

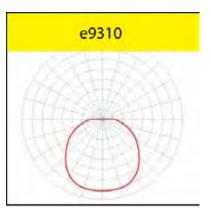


ITEM REFERENCES						
Designation:	Power:	Luminous flux:	Luminous efficacy:	Weight:	Item No.:	
e9310F	11 W	600 lm	55 lm/W	1,3 kg	1D0501	

	TECHNICAL SPECIFICATIONS
Marking:	EX II 2G Ex eb mb op is IIC T4 Gb II 2D Ex op is tb IIIC T80°C Db
Certificate:	EU-Type Examination Certificate
Handle:	Made of rubber (EPDM), with suspension eye, cable relief
Cover:	Polycarbonate, frosted
Wire guard:	Round steel, cage hook for suspension purpose
LED:	Approx. 6,500K, CRI typically 80
Operating temperature:	-25°C to +40°C
Rated voltage:	220/240V AC/DC
Ingress protection:	IP66
Cable entries:	M20 x 1,5mm ² with bend protection







ATEX PORTABLE LAMPS

ZONES 1, 2 (gas) & 21, 22 (dust)

-----Light source and cable not supplied.

Explosion-proof certified portable lamp for use in hazardous areas.

Suitable for incandescent, halogen, energy-saving and LED lamps.

Housing in aluminium light alloy.

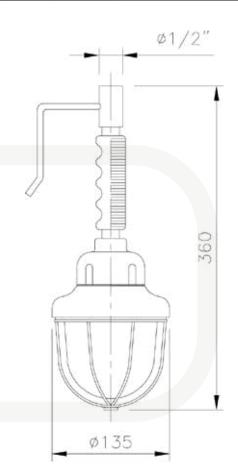
Cage, hook and handle covered with Nylon.



ITEM REFERENCES							
Model:	Lamo	Lamp holder:	Temp. class:		TCables	Mainht	ltere Neri
model:	Lamp:	Lamp holder:	Gas	Dust	T. Cable:	Weight:	Item No.:
	Energy-saving up to 15W		T4	T135°C	NC	1,8 Kg	1D0301
	LED up to 9W	E27	Т6	T85°C	NC		
EVP 50	Incandescent up to 100W		Т3	T200°C	160°C		
	Halogen up to 100W		Т3	T200°C	160°C		

TECHNICAL SPECIFICATIONS					
Marking:					
Certificate:	EU-Type Examination Certificate				
Lamp:	Halogen, Incandescent, Energy-saving or LED				
Rated voltage:	AC max.: 440 V AC DC max.: 48 V DC				
Ingress protection:	IP65				
Operating temperature:	-20°C to +40°C				
Cable entries:	1/2" NPT (cable gland not included)				

ACCESSORIES							
Designation:	signation: Cable length: Item No.:						
	5 m	1D0203					
	10 m	1D0204					
	15 m	1D0205					
Cable H07RN-F 450/750V 3G1,5	20 m	1D0206					
	25 m	1D0207					
	30 m	1D0208					



KE-LED-EX 4003 HAND LAMP

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX PORTABLE LAMPS

ZONES 1, 2 (gas) & 21, 22 (dust)

The extremely compact, lightweight ATEX hand lamp is ideal for illuminating areas that are difficult to access and where inspection and service are necessary. Three integrated POWER LED modules ensure optimal lighting.

Thanks to the integrated diffuser film, a glare-free and pleasant work is guaranteed. Ideal for use as an inspection lamp.

- 3 POWER LEDs / 6500 K

- Protection tube: polycarbonate,

- shock-resistant, Ø 40mm
- Handle / end cap: neoprene, black
- Integrated diffusor foil
- Metal hook: yes, plastified, rotatable
- Protection category: IP68 -50 m / 5 h
- Protection class: II / III
- Cable: 10m H07RN-F 2 x 1,00 mm²
- Voltage: 230V / 110V / 42V / 24V / 12V



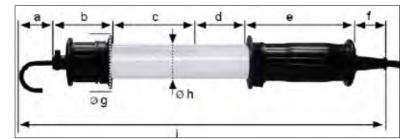






ITEM REFERENCES						
Designation:	Power:	Rated voltage:	Rated current:	Luminous flux:	Protection class:	Item No.:
KE-LED-EX 4003/230	3,3 W	230 V AC	0,03 A	200 lm	Ш	1D0603
KE-LED-EX 4003/110	3 W	110 V AC/DC	0,025 A	185 lm	Ш	1D0604
KE-LED-EX 4003/42	3,8 W	42 V AC/DC	0,075 A	180 lm	II	1D0605
KE-LED-EX 4003/24	3 W	24 V AC/DC	0,10 A	255 lm	III	1D0606
KE-LED-EX 4003/12	2,8 W	12 V AC/DC	0,20 A	235 lm	Ш	1D0607

	TECHNICAL SPECIFICATIONS
Marking:	LI 2G Ex eb mb op is IIC T4 Gb II 2D Ex tb op is IIIC T105° Db IP68
Certificate:	EU-Type Examination Certificate
Operating temperature:	-20°C to +50°C
Protective tube:	Polycarbonate
Impact resistance:	IK10
Ingress protection:	IP68-50m/5h
Color temperature:	6500K
Handle / end cap:	Neopren
Weight:	1,55 kg
Cable:	10m H07RN-F 2x1 mm ² (plug non included)



DIMENSIONS (mm)								
а	b	с	d	е	f	g	h	i
40	65	100	70	115	40	43	40	430

KE-LED-EX 5018 HAND LAMP 360°

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX PORTABLE LAMPS

ZONES 1, 2 (gas) & 21, 22 (dust)

The ATEX LED 360° hand lamp is ideal for iluminating work in explosion-proof areas, such as cleaning work in tanks or silos.

The integrated diffuser foil ensures a glare-free and homogeneous light. The slim design, the low weight (approx. 1.5 kg) and the comfortable neoprene handle allow the use of the light as a hand and inspection light.



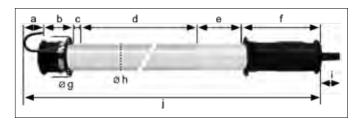
- Circular LED light source of 360°
- 18x POWER LEDs | 6500K
- Polycarbonate protective tube
- Integrated diffuser film
- Electronic ballast with special protection
- Neoprene handle & end cap
- Metal hook: yes, plastified, rotatable





ITEM REFERENCES						
Designation:	Power:	Luminous flux:	Colour T.:	Weight:	Item No.:	
EX 5018 Hand Lamp	10 W	1000 lm	6500K	1,5 kg	1D0601	

	TECHNICAL SPECIFICATIONS					
Marking:	II 2G Ex eb mb o is IIC T4 Gb II 2D Ex tb op is IIIC T105° Db					
Certificate:	EU-Type Examination Certificate					
Operating temperature:	-20°C to +40°C					
Rated voltage:	24V AC/DC					
Current:	0,33 A					
Power:	10 W					
LED 360°:	18x POWER LED Colour Rendering Index >70 Lifetime >50.000h					
Protection class:	111					
Ingress protection:	IP68-50m/5h					
Protective tube:	Polycarbonat					
Impact resistance:	IK10					
Integrated diffuser film:	Yes					
Handle / end cap:	Neopren					
Energy efficiency class:	F					
Cable:	10m H07RN-F 2x1 mm ²					



	DIMENSIONS								
а	b	с	d	е	f	g	h	i	j
25	55	35	225	120	140	75	50	45	600

RECHARGEABLE LED SCENE LIGHT XPR-5592GX - GCX

Zones 0, 1, 2

ATEX FLOODLIGHTS



ZONES 0,1,2 (gas)

The XPR-5592GX - GCX Rechargeable LED Scene Light is ideal for use when portability is important. ATEX certified Intrinsically Safe for use in hazardous environments, the array of 5 floodlight LEDs perfectly emit an impressive 1,000 lumens on high for 6 hours, or 500 lumens on low for 17 hours when activated using the robust three-position toggle switch. The housing is constructed from lightweight glass-filled nylon polymer, keeping it cool to the touch while being chemical, heat, and impact resistant.

A heavy-duty rare-earth magnetic base is securely mounted on the bottom to provide 360 degrees of hands-free rotation for proper light placement on any job site.

Powered by an integrated lithium-ion battery, the light includes an adjustable steel handle for carrying or hanging and both AC/DC power supplies placed inside a durable blow molded carrying case for ease of use and storage.





T			M
Steel-reinforced carry handle	Locking cam allows carry handle	Large adjustment knobs means	Sealed switch and charging porT
also functions as convenient	to telescope to ideal length and	light can be positioned and	cap ensure full IP-67 waterproof &
mounting hook where needed.	position.	secured for hands-free work.	dustproof protection.

ITEM REFERENCES					
Designation:	What's included:	Item No.:			
XPR-5592GX	Scene Light - AC & DC charging cords - Blow-molded case	1E1901			
XPR-5592GCX	Scene Light - 6 foot tripod - AC & DC charging cords - Blow-molded case	1E1902			

TECHNICAL SPECIFICATIONS				
Marking:	😥 II 1G Ex ia op is IIC T4 Ga			
Certificate:	EU-Type Examination Certificate			
Operating temperature:	-20°C to +40°C			
Case material:	Glass-filled nylon polymer. Serialized for personal identification			
Lumens/Runtime:	High: 1200 lm, 6 hrs. runtime Low: 650 lm, 12 hrs. runtime			
Ingress protection:	IP67			
Drop rating:	2 m			
Dimensions:	Lenght: 343mm Width: 235mm Depth: 89mm			
Weight:	1,928 g			
Battery:	Integrated rechargeable li-ion battery			



Zones 1, 2, 21, 22

ATEX PORTABLE LAMPS

ZONES 1, 2 (gas) & 21, 22 (dust)

Lightweight and fully portable, with an intense light output of up to 2000 lumens. Being fully certified for Zones 1 & 2 (Gas) and Zones 21 & 22 (Dust) it has been designed to make working in confined spaces even safer.

Featuring no trailing cables vastly reduces trip hazards, while the powerful light output easily illuminates the working environment. Ergonomically designed for easy maneuverability, it is extremely user friendly







- Lightweight and portable
- Unique protection system to cope with paint overspray
- Compatible accessory items available
- Maintenance friendly
- Low battery voltage warning
- Specialised charging system
- Waterproof and dustproof

	ITEM REFERENCES					
Designation:			Item No.:			
SARF300	-		13B0201			
SARF300/KIT1		LUMIN EX LED Rechargeable Floodlight LUMIN Floodlight Protective Shield LUMIN Floodlight Magnetic Bracket LUMIN Floodlight Scaffold Bracket LUMIN Charging Unit	13B0202			

TECHNICAL SPEC	IFICAT	IONS
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Marking:	II 2G Ex eb ib mb IIC T4 Gb II 2D Ex tb IIIC T85°C Db
Certificate:	EU-Type Examination Certificate
Operating temperature:	-20°C to +43°C
Ingress protection:	IP66
Battery duration:	12 Hours (Normal) 6 Hours (Boost)
Light output:	1250 lm (Standard) 2000 lm (Boost)
Charge time:	6 Hours
Dimensions:	430mm x 260mm x 390mm
Weight:	13.8kg

	ACCESSORIES							
	Description:		Description:					
8	LUMIN Floodlight Scaffold Bracket - SAFL/SN	1	LUMIN Floodlight Protective Film - SAFL/PF					
-	LUMIN Floodlight Magnetic Bracket - SAFL/MB	٢						
	LUMIN Floodlight Protective Shield - SAFL/PS	A	LUMIN Floodlight Tripod Stand - SAFL/TS					

EX GALALED PORTABLE LED LIGHTING

Zones 1, 2, 21, 22

ATEX PORTABLE LAMPS

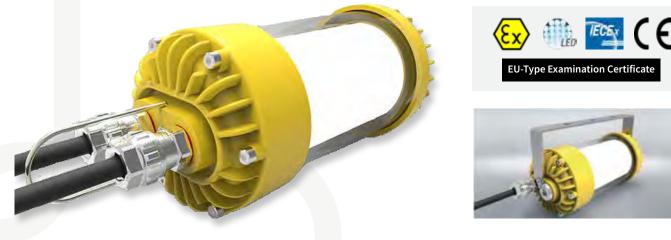
ZONES 1, 2 (gas) & 21, 22 (dust)

Portable, safety LED lighting with high level of protection intended for use in hazardous areas with explosive gas and dust atmospheres. The lamp is designed for application in shipbuilding and offshore industries, for both indoor and outdoor spaces, can be used as portable lighting and as general fixed in lighting.

- Circular LED light source of 360°

- High light intensity with no glare effect
- Low weight of 2,3kg. high level of mechanical protection (IP66 and IK8)

Ex GalaLED enables outstanding thermal management since the LED engine is attached directly to the top and bottom cover, acting as a heat sink.



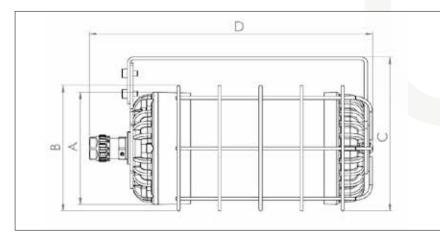
ITEM REFERENCES							
Designation:	Lumen output:	Efficacy:	Operating voltage:		Power:	Power factor:	Item No.:
Ex GalaLED 42VAC	~3000 lm	~120lm/W	38-48 VAC 38-60 VDC	50-60 Hz	~25W	≥ 0,98 at 42 VAC	1D0401
Ex GalaLED 110VAC	~3000 lm	~120lm/W	90-130 VAC 90-130 VDC	50-60 Hz	~25W	> 0,85 at 110 VAC	1D0402
Ex GalaLED 230VAC	~3500 lm	~115 lm/W	210-250 VAC	50-60 Hz	~30W	> 0,98 at 230 VAC	1D0403
Ex GalaLED 24VAC	>2300 lm	~ 115lm/W	20-30 VAC 20-30 VDC	50-60 Hz	~20W	> 0,98 at 24 VAC	1D0404

TECHNICAL SPECIFICATIONS		
Marking:	II 2G Ex db op is IIC T6 Gb II 2D Ex tb op is IIIC T85°C Db	
Certificate:	EU-Type Examination Certificate	
Operating temperature:	-40°C to +50°C	
Housing:	Aluminum alloy powder painted with tempered borosilicate glass tube	
Diffuser:	PMMA 2,5 mm	
Gasket:	Silicone gasket	
Ingress protection:	IP66, IP67 IK08	
LED:	360° LED module ~5000K, CRI 80-85, depending on LED type 60 000 working hours temp. 25°C (estimated lifespan)	
Connection terminal:	L1,N,PE max 3x2,5 mm ² , External PE Terminal M5	
Connection cable:	H07RN-F 3x1,5 mm ² or 3x2,5 mm ²	
Weight:	2,3 kg	
Dimensions:	D125 x H280 mm	
Cable entries:	2xM20 (Cable glands / plugs non included)	

EX GALALED PORTABLE LED LIGHTING

Full catalogue available on our website: www.inpratex.com

ACCESSORIES					
Sketch:	Description:	Sketch:	Description:	Sketch:	Description:
	Protective grid	- CO	Hook Eye Set		Ex Plug M20x1.5
	Vertical Cable Hanging Set		Mounting bracket		Antistatic Protective peel off Foil
\bigcirc	Gasket		Ex Gland M20x1.5 ø7-12mm or ø10-15mm		Horizontal Cable Hanging Set



DIMENSIONS				
А	ø110mm			
В	ø125mm			
С	155mm			
D	280mm			

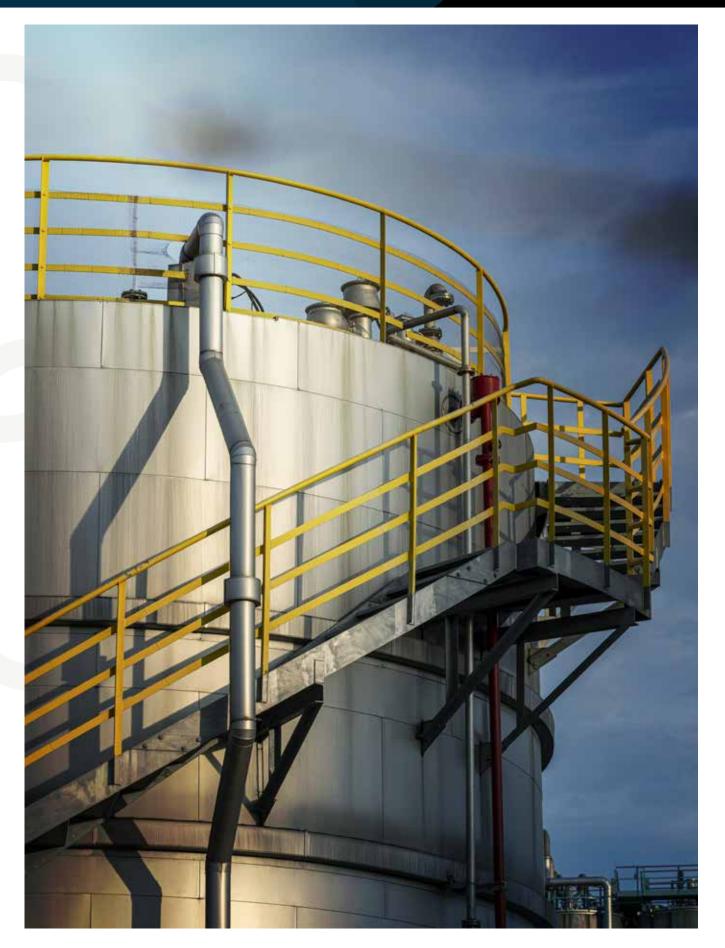




WEDDY



1 🐼 SNITHGING







2 - FLASHLIGHTS & HEADLAMPS

Inpratex provides a wide range of ATEX/IECEx certified flashlights and headlamps for safe use in potentially explosive atmospheres in industry and mining.

The range includes explosion-protected handheld and angle flashlights, headlights and portable lamps, powered by AAA batteries or rechargeable batteries.

In our catalogue you will find the right ATEX /IECEx flashlight or headlamp for use in underground manholes or galleries, sewers, basements, tanks and reservoirs, cisterns, wells, silos, chemical reactors, ship's holds, tunnels, air ducts, service galleries, pits, etc.

68
92

FLASHLIGHTS

2.

EXPLOSION-PROOF MINI HAND LAMP MHL 5 EX

Zones 1, 2, 21, 22





This explosion-proof high power LED lamp is made of a very impact resistant and waterproof plastic casing (IP68). The MHL 5 Ex shows its strength with bright, white light through its strong power LED.

Submersible up to 3 m.

The MHL 5 Ex is ideal for professional use as a maintenance and inspection light as well as for hazardous good transport.

ITEM REFERENCES		
Model: Item No.:		
MHL 5 EX	1F0101	

TECHNICAL SPECIFICATIONS		
Marking:	LI 2G Ex ib IIC T4 Gb	
Certificate:	EU-Type Examination Certificate	
Ingress protection:	IP68	
Lamp:	POWER LED	
Operating time:	Approx. 4h	
Luminous flux:	42 lm	
Range:	Approx. 30 m	
Power source:	2 x AAA, Micro (included)	
Weight:	45 g	
Dimensions:	145x20 mm	



Zones 0, 1, 2

ATEX FLASHLIGHTS ZONES 0, 1, 2 (gas) & Mines Flashlight Image: Sime start in the second sta

- Momentary or constant-on flashlight
- Engineered polymer housing
- Waterproof
- Built-in pocket/belt clip

- Sharp focused beam for distance illumination
- Single tail switch
- Impact & chemical resistant
- High-efficiency deep parabolic reflector

ITEM REFERENCES	
Model:	Item No.:
XPP-5410G	1E0702

	TECHNICAL SPECIFICATIONS
Marking: ATEX	😡 I M1 Ex ia op is Ma 😡 II 1G Ex ia op is IIC T3 Ga
Marking: NEC 500	CLASS I DIV 1 GRPS A-D T3 CLASS II & III DIV 1 GRPS E-G T135C CLASS I ZONE 0 AEx ia IIC T3 Ga CLASS I ZONE 0 Ex ia IIC T3 Ga
Certificate:	EU-Type Examination Certificate
Ingress protection:	IP67
LED:	CREE LED (+50,000+ hours LED life)
Run time:	18 h
Luminous flux:	30 lm
Beam distance:	40 m
Power source:	2 x AAA (included)
Weight:	53,9 g
Dimensions:	2,3 cm (head diameter) 1,80 cm (handle diameter) 14,7 cm (length)
Operating temperature:	-20°C to +40°C

XPP-5414GX DUAL-LIGHT FLASHLIGHT WITH MAGNET

Zones 0, 1, 2

ATEX FLASHLIGHTS

10.100

ZONES 0, 1, 2 (gas)

This Intrinsically Safe (cETLus, ATEX Zone 0 and IECEx) Dual-Light[™] LED flashlight offers peak performance in hazardous work environments. Use the top-mounted buttons to trigger the flashlights focused distance lighting and the floodlights expansive close-up illumination.

Maximize the safety and functionality benefits by simultaneously activating both lights in Dual-Light[™] Mode. Features easy-to-use top-mounted switches, durable glass-filled nylon polymer housing, an integrated magnet on base, and a reversible pocket clip.

Submersible up to 1 meter.











ITEM REFERENCES		
Model:	Item No.:	
XPP-5414GX	1E2301	

TECHNICAL SPECIFICATIONS		
Marking: ATEX	😡 II 1G Ex ia op is IIC T3 Ga	
Marking: NEC 500	CLASS I DIV 1 GRPS A-D T3 CLASS II & III DIV 1 GRPS E-G T135°C CLASS I ZONE 0 AEx ia IIC T3 Ga CLASS I ZONE 0 Ex ia IIC T3 Ga	
Certificate:	EU-Type Examination Certificate	
Case material:	Engineered polymer	
Ingress protection:	IP67	
Candela:	3100cd	
Run time:	Flashlight: 24 h Floodlight: 24 h Dual Light: 24 h	
Luminous flux:	Flashlight: 120 lm Floodlight: 120 lm Dual Light: 120 lm	
Beam distance:	111 m approx.	
Power source:	2 x AA (not included)	
Weight:	116 g	
Dimensions:	33 mm (head diameter) 22 mm (handle diameter) 159 mm (length)	
Operating temperature:	-20°C to +40°C	

FLASHLIGHTS & HEADLAMPS 😨 2

ATEX FLASHLIGHTS

ZONES 0, 1, 2 (gas)

This flashlight is cETLus, ATEX Zone 0, IECEx, and INMETRO certified Intrinsically Safe for use in both above and below ground hazardous locations where explosive gases and dust may be present.

This light uses an LED rated at 200 lumens that work in conjunction with a high-efficiency deep parabolic reflector to create a usable flashlight beam rated at 143 meters. The tail switch provides momentary or constant-on functionality.

Submersible up to 1 meter.



- Sharp focused flashlight beam for distance illumination
- Polymer housing
- Non-slip grip
- Dustproof/Waterproof
- Impact & chemical resistant
- Tail switch
- LED technology



EU-Type Examination Certificate









ITEM REFERENCES	
Model:	Item No.:
XPP-5418GX	1E2401

TECHNICAL SPECIFICATIONS		
Marking: ATEX	😥 II 1G Ex ia op IIC T3 Ga	
Marking: NEC 500	CLASS I DIV 1 GRPS A-D T3 CLASS II & III DIV 1 GRPS E-G T135C CLASS I ZONE 0 AEx ia IIC T3 Ga CLASS I ZONE 0 Ex ia IIC T3 Ga	
Certificate:	EU-Type Examination Certificate	
Case material:	Engineered polymer	
Ingress protection:	IP67	
Candela:	5129cd	
Run time:	10,5 h	
Luminous flux:	200 lm	
Beam distance:	143 m	
Power source:	3 x AA (not included)	
Weight:	153 g	
Dimensions:	38mm (head diameter) 19mm x 35mm (handle diameter) 142mm (length)	
Operating temperature:	-20°C to +40°C	

EXPLOSION-PROOF HAND LAMP HL 10 EX

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX FLASHLIGHTS

ZONES 1, 2 (gas) & 21, 22 (dust)

This explosion-proof high power LED lamp is made of a very impact-resistant and waterproof plastic casing (IP68). The innovative LED torch with a length of only 17 cm and a weight of only 167 g is the leader among comparable torches.

The user will appreciate that the bulbs will not have to be replaced any more thanks to the high lifespan of the strong, but power-saving LED lamp.

Submersible up to 5 m.



EU-Type Examination Certificate





Note: can be attached to protective helmets (helmet clamp as accessory)

ITEM REFERENCES	
Model:	Item No.:
HL 10 EX	1F0201
Helmet clamp (acccording to DIN 19490)	1F0205

TECHNICAL SPECIFICATIONS	
Marking:	Ex II 2G Ex ib IIC T4 Gb II 2D Ex ibD 21 T135°C Db
Certificate:	EU-Type Examination Certificate
Ingress protection:	IP68
Lamp:	Power LED
Run time:	Approx. 11h
Colour temperature:	Approx. 7000k
Beam distance:	Approx. 150 m
Power source:	4 x AA, Mignon (included)
Weight:	Approx. 167 g
Dimensions:	41x172 mm

Zones 0, 1, 2, 20, 21, 22

Full catalogue available on our website: www.inpratex.com



ATEX certified and waterproof flashlight. Due to the fail-safe high power LED, a bulb change is no longer needed. Turn-on button easy to operate with gloves as well. Extremely high brightness: 110 lumen.

Note: can be attached to protective helmets (helmet clamp as accessory)

ITEM REFERENCES	
Model:	Item No.:
HL 11 EX	1F0203
Helmet clamp (acccording to DIN 19490)	1F0205

TECHNICAL SPECIFICATIONS		
Marking:	Ex II 1G Ex ia IIC T4 Ga	
Certificate:	EU-Type Examination Certificate	
Ingress protection:	IP67	
Lamp:	Power LED	
Luminous flux:	110 lm	
Beam distance:	Approx. 150 m	
Power source:	4 x AA (included)	
Weight:	Approx. 195 g	
Dimensions:	47x175 mm	

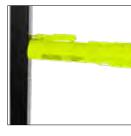
XPP-5422GM DUAL-LIGHT FLASHLIGHT WITH DUAL MAGNETS

Zones 0, 1, 2

ZONES 0, 1, 2 (gas) & Mines ATEX FLASHLIGHTS This non-rechargeable Dual-Light flashlight with dual magnets is cETLus, ATEX, INMETRO and IECEx listed Intrinsically Safe Permissible. It uses a CREE LED rated at 120 lumens that works in conjunction with a high-efficiency deep parabolic reflector to create a usable flashlight beam TECHNOLOGY rated at 170 meters. A 120 lumens unfocused floodlight is integrated into the housing which is perfect for close-up illumination. Additionally, both the flashlight and the floodlight can be turned on at the same time for maximum versatility. Submersible up to 1 meter. 🌇 (E 🚇 EU-Type Examination Certificate Dual The integrated magnets located in the base of the handle and the pocket Magnets clip, provide for almost limitless hands-free usage.









ITEM REFERENCES	
Model:	Item No.:
XPP-5422GM	1E0601

TECHNICAL SPECIFICATIONS	
Marking: ATEX	K I M1 Ex ia I Ma K II 1G Ex ia IIC T3 Ga
Marking: NEC 500	CLASS I DIV 1 GRPS A-D T3 CLASS II & III DIV 1 GRPS E-G T135C CLASS I ZONE 0 AEx ia IIC T3 Ga CLASS I ZONE 0 Ex ia IIC T3 Ga
Certificate:	EU-Type Examination Certificate
Ingress protection:	IP67
LED:	CREE LED (50,000+ hours LED life)
Run time:	Flashlight Runtime: 17.5 h Floodlight Runtime: 17.5 h Dual-Light Runtime: 4.5 h
Luminous flux:	Flashlight Lumens: 120 Floodlight Lumens: 120 Dual-Light Lumens: 240
Beam distance:	170 m
Power source:	3 x AA (not included)
Weight:	196 g
Dimensions:	4,5 cm (head diameter) 4 cm (handle diameter) 18 cm (length)
Operating temperature:	-20°C to +40°C

XPP-5422GMX DUAL-LIGHT FLASHLIGHT WITH DUAL MAGNETS

Zones 0, 1, 2

ZONES 0, 1, 2 (gas) **ATEX FLASHLIGHTS** Flashlight This Dual-Light Flashlight is cETLus, ATEX, IECEx and INMETRO listed Intrinsically Safe for use in both above and below ground hazardous locations where explosive gases and dusts may be present. TECHNOLOGY It uses an LED rated at 210 lumens that works in conjunction with a Floodlight high-efficiency deep parabolic reflector to create a usable flashlight beam rated at 187 meters Submersible up to 1 meter. Dual-Light IECEX EU-Type Examination Certificate The integrated magnets located in the base of the handle and the pocket Dual clip, provide for almost limitless hands-free usage. Magnets

ITEM REFERENCES	
Model:	Item No.:
XPP-5422GMX	1E1701

TECHNICAL SPECIFICATIONS	
Marking: ATEX	😥 M1 Ex ia Ma
Marking: NEC 500	CLASS I DIV 1 GRPS A-D T3 CLASS II & III DIV 1 GRPS E-G T135C CLASS I ZONE 0 AEx ia IIC T3 Ga CLASS I ZONE 0 Ex ia IIC T3 Ga
Certificate:	EU-Type Examination Certificate
Ingress protection:	IP67
LED:	CREE LED (50,000+ hours LED life)
Run time:	Flashlight: 14 h Floodlight: 20 h Dual Light: 10 h
Luminous flux:	Flashlight: 210 lm Floodlight: 130 lm Dual Light: 285 lm
Beam distance:	187 m approx.
Power source:	3 x AA (not included)
Weight:	196 g
Dimensions:	45 mm (head diameter) 38x28 mm (handle diameter) 178 mm (length)
Operating temperature:	-20°C to +40°C

XPR-5522GMX RECHARGEABLE DUAL-LIGHT FLASHLIGHT W/ MAGNETS

Zones 0, 1, 2

Full catalogue available on our website: www.inpratex.com

ATEX FLASHLIGHTS

ZONES 0, 1, 2 (gas)

The XPR-5522GMX Rechargeable Dual-Light Flashlight w/Dual Magnets is cETLus, ATEX, IECEx, and MSHA listed Intrinsically Safe Permissible for use in both above and below ground hazardous locations where explosive gases and dusts may be present.

It uses an LED rated at 240 lumens that work in conjunction with a high-efficiency deep parabolic reflector to create a usable flashlight beam rated at 178 meters. A 175 lumens unfocused floodlight is integrated into the housing which is perfect for close-up illumination.

Powered by an integrated Lithium-ion rechargeable battery.

Wall or Vehicle Mounted Charger included.













Model:	Item No.:
XPR-5522GMX	1E1702

TECHNICAL SPECIFICATIONS	
Marking: ATEX	😥 II 1G Ex ia op is IIC T3 Ga
Marking: NEC 500	CLASS I DIV 1 GRPS A-D T3 CLASS II DIV 1 GRPS E-G T3 & Class III T165°C CLASS I ZONE 0 AEx ia IIC T3 Ga ZONE 20 GROUP IIIC T165°C
Certificate:	EU-Type Examination Certificate
Ingress protection:	IP54
LED:	240 lm
Run time:	Flashlight: 8 h Floodlight: 8,5 h Dual Light: 4,75 h
Luminous flux:	Flashlight: 240 lm Floodlight: 175 lm Dual-Light: 400 lm
Beam distance:	178 m
Rechargeable battery:	Lithium-ion
Weight:	280 g
Dimensions:	53 mm (head diameter) 33x43 mm (diameter) 188 mm (length)
Operating temperature:	-10°C to +40°C

XPR-5542GMX RECHARGEABLE DUAL-LIGHT FLASHLIGHT W/ MAGNET

Full catalogue available on our website: www.inpratex.com

ATEX FLASHLIGHTS

ZONES 0, 1, 2 (gas)

The XPR-5542GMX Rechargeable Dual-Ligh Flashlight with Magnet is cULus, ATEX, and IECEx listed Intrinsically Safe for use in both above and below ground hazardous locations where explosive gases and dusts may be present.

It uses a CREE LED rated at 400 lumens that works in conjunction with a high-efficiency deep parabolic reflector to create a usable beam rated at 215 meters.

A 225 lumens unfocused floodlight is integrated in to the housing which is perfect for close-up illumination. Additionally both the flashlight and the floodlight can be turned on at the same time for maximum safety and versatility.

Power comes from a rechargeable Lithium-ion battery. Wall or Vehicle Mounted Charger included.



ITEM REFERENCES	
Model:	Item No.:
XPR-5542GMX	1E1601

TECHNICAL SPECIFICATIONS	
Marking: ATEX	😥 II 1G Ex ia IIC T4 Ga
Marking: NEC 500	CLASS I DIV 1 GRPS A-D T4 CLASS II & III DIV 1 GRPS E-G CLASS I ZONE 0 GRP IIC T4 CLASS II ZONE 20 IIIC T135°C
Certificate:	EU-Type Examination Certificate
Ingress protection:	IP67
LED:	CREE LED (50,000+ hours LED life)
Run time:	Flashlight - High: 10,5 h Medium: 19 h Low: 41 h Floodlight: 10,5 h Dual-Light: 10 h
Luminous flux:	Flashlight - High: 400 lm Medium: 170 lm Low: 80 lm Floodlight: 225 lm Dual-Light: 275 lm
Beam distance:	215 m
Rechargeable battery:	Lithium-ion
Weight:	310 g
Dimensions:	4 cm (head diameter) 3 cm (handle diameter) 24 cm (length)
Operating temperature:	-20°C to +40°C

EXPLOSION-PROOF RECHARGEABLE HAND LAMP FOUR LED EX

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX FLASHLIGHTS

ZONES 1, 2 (gas) & 21, 22 (dust)

This compact and impact-resistant rechargeable torch model Four LED EX offers up to 12 hours of high-quality LED light. Four lens focussed white LED create a very bright, even light beam as a result of the most modern institute-calculated lens optic. The Four LED EX can be recharged up to 1000 times and guarantees flexibility and mobility with its integrated power plug. The lifespan of the LED lamp is nearly unlimited, thus, you do not need to replace the bulb. The robust and fall-safe plastic casing is designed for the hardest use.





ITEM REFERENCES	
Model:	Item No.:
Four LED EX	1F0301

	TECHNICAL SPECIFICATIONS	
Marking:	€ II 2G Ex ib IIC T4 € II 2D Ex ibD 21 T135°C	
Certificate:	EU-Type Examination Certificate	
Housing:	Plastic (shock-resistant)	
Ingress protection:	IP65	
Lamp:	4 LED 5 mm	
Run time:	Approx. 12h	
Beam distance:	Approx. 50 m	
Rechargeable battery:	NiMH 4,8V/550mAh	
Charging voltage:	120V / 230V AC 50/60Hz	
Weight:	150 g	
Dimensions:	135x48x48 mm	
Operating temperature:	-20°C to +40°C	

Zones 0, 1, 2



635 m / 257 m / 164 m

12 cm (head diameter) | 12 cm (width) | 14 cm (depth) | 20 cm (length)

Lithium-ion

-20°C to +40°C

6 h

935 g

80

Beam distance:

Recharge time: Weight:

Dimensions:

Rechargeable battery:

Operating temperature:

XPR-5584GMX RECHARGEABLE LANTERN W/ MAGNETIC BASE

Zones 0, 1, 2

Full catalogue available on our website: www.inpratex.com

ATEX FLASHLIGHTS

ZONES 0, 1, 2 (gas)

The XPR-5584GMX Intrinsically Safe Rechargeable Lantern generates a scene-filling 600 lumens for an ultra-long 13 hours from four separate LEDs housed in a 180-degree articulating head for maximum versatility. Holding down the switch enables a battery-saving 250-lumen low mode, extending runtime to 25 hours when work demands extreme use. Designed and engineered as both a hand-held lantern and portable area light, the 5584 features a rear-mounted rubber base pad featuring a 25 lb. pull-force rare earth magnet for convenient hands-free, adjustable scene lighting on demand.

Constructed of thick-walled glass-filled nylon and weighing only 1219 g, the XPR-5584GMX is built to survive the harshest industrial environments. The over-molded rubber handle and carry strap provide the user superior grip and retention, while the two bright green rear-facing LEDs let others easily see your location for increased safety and awareness. The XPR-5584GMX is a cULus-certified Class I DIV 1, ATEX and IECEX certified with a charger that meets the requirements of NFPA-1901-14.1.10.2 (2016) mounted in any position. It's powered by an integrated rechargeable lithium-ion battery and comes with a charger base, AC and DC chargers and carry strap.



ITEM REFERENCES	
Model:	Item No.:
XPR-5584GMX	1E2101

TECHNICAL SPECIFICATIONS	
Marking: ATEX	😥 II 1G Ex ia op is IIC T4 Ga
Marking: NEC 500	CLASS I DIV 1 GRPS A-D T4 CLASS II & III DIV 1 GRPS E-G T135°C CLASS I ZONE 0 AEx ia op is IIC T4 Ga
Certificate:	EU-Type Examination Certificate
Operating temperature:	-20°C to +40°C
Case material:	Glass filled nylon polymer
Lumens/Runtime:	HIGH: 600 lm, 13 hrs. runtime LOW: 250 lm, 25 hrs. runtime
Candela:	HIGH: 14,096 LOW: 7,007
Beam distance:	HIGH: 237 m LOW: 167 m
Ingress protection:	IP67
Drop rating:	2 meters
Dimensions:	LENGTH: 19.2 cm WIDTH: 10.8 cm DEPTH: 14.8 cm
Weight:	1219 g
Battery:	Rechargeable Li-ion integrated battery pack

Zones 1, 2

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ITEM REFERENCES	
Model:	Item No.:
HL 10 Ex W	1F0204

TECHNICAL SPECIFICATIONS	
Marking:	😥 II 2G Ex ib IIC T4 Gb
Certificate:	EU-Type Examination Certificate
Ingress protection:	IP67
Lamp:	3W Power LED
Run time:	10 h approx.
Luminous flux:	175 lm
Beam distance:	150 m approx.
Power source:	4 x LR6 AA (incluided)
Weight:	247 g (including batteries)
Operating temperature:	-20 °C to +40 °C

EXPLOSION-PROOF RECHARGEABLE HAND LAMP HL 25 EX

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX FLASHLIGHTS

ZONES 1, 2 (gas) & 21, 22 (dust)



The microprocessor controlled, rechargeable, flexible head safety lamp, model HL 25 EX, made of impact-resistant, non-flammable plastic was certified according to the ATEX directive 2014/34/EU and relevant EMC provisions and may be used in vehicles.

The lamp is equipped with two switchable high-performance LEDs: a power LED with focussed beam for far range and a 1 watt power LED with a wide emission for close range.



4-stage adjustable lamp head. LCD capacity display blinks while charging.

No change of the lamp required.

Emergency light function can be turned off.



Charging stations are not included in the delivery. These may be ordered separately as accessories.

ITEM REFERENCES	
Model:	Item No.:
HL 25 EX (Charging station not included)	1E0401
Charging unit 100230V AC	1E0402
Charging unit 1224V DC	1E0403
HL 25 EX Set (Lamp + Charging unit 1224V DC)	1E0404
HL 25 EX Set (Lamp + Charging unit 1224V DC + 230V)	1E0405

	TECHNICAL SPECIFICATIONS
Marking:	II 2G Ex ib IIC T4 Gb II 2D Ex ib IIIC T135°C Db
Certificate:	EU-Type Examination Certificate
Housing:	Non-flammable plastic, shock-resistant
Ingress protection:	IP67
Lamp:	LED (170 lm)
Run time:	Approx. 5h
Beam distance:	Approx. 200 m
Lamp (close range):	1 W LED (with 90 lumen)
Run time (close range):	Approx. 10h
Rechargeable battery:	Li-ion 3,7 V/4,6 Ah
Charging voltage:	100230V AC 50/60Hz, 12V DC, 24V DC
Weight:	Approx. 540g
Dimensions:	225 x 70 x 70
Operating temperature:	-20°C to +40°C

XPP-5566RX DUAL-LIGHT ANGLE LIGHT - 3AA

Zones 0, 1, 2

Full catalogue available on our website: www.inpratex.com

ATEX FLASHLIGHTS

ZONES 0, 1, 2 (gas) & Mines

FLASHLIGHTS & HEADLAMPS 😨 2



EU-Type Examination Certificate

The XPP-5566RX Intrinsically Safe angle light is a flashlight, a floodlight and a Dual-Light angle light that is cULus, ATEX, and IECEx certified Intrinsically Safe. This flashlight pivots 90 degrees up and down with a 45 degree downward angled floodlight.

The flashlight setting offers user-selectable brightness settings of 200, 110 and 60 Lumens with a 401 meter beam distance.

The floodlight setting has user-selectable brightness settings of 100, 40 and a "Survival Mode" of 20 lumens that provides just enough light in an emergency situation with a run-time of 33 hours.

Powered by 3 included AA batteries.









ITEM REFERENCES	
Model:	Item No.:
XPP-5566RX	1E1301

	TECHNICAL SPECIFICATIONS
Marking: ATEX	I M1 Ex ia op is I Ma II 1G Ex ia op is IIC T3 Ga
Marking: NEC 500	CLASS I DIV 1 GRPS A-D T3 CLASS II & III DIV1 GRPS E-G T135°C CLASS I ZONE 0 AEx ia IIC T3 Ga
Certificate:	EU-Type Examination Certificate
Ingress protection:	IP67
LED:	CREE LED (50,000+ hours LED life)
Run time:	Flashlight: High 11 h Medium 18 h Low 33 h Floodlight: High 11 h Medium 18 h Low 33 h Dual-Light: 11 h
Luminous flux:	Flashlight: 200 lm (High) 110 lm (Medium) 60 lm (Low) Floodlight: 100 lm (High) 40 lm (Medium) 20 lm (Low) Dual-Light: 205 lm
Beam distance:	401 m (High) 250 m (Medium) 187 m (Low)
Weight:	315 g
Dimensions:	53 mm (head diameter) 66 mm (width) 168 mm (length) 66 mm (depth)
Operating temperature:	-20°C to +40°C

XPR-5568RX RECHARGEABLE DUAL-LIGHT ANGLE LIGHT

Zones 0, 1, 2

Full catalogue available on our website: www.inpratex.com

ATEX FLASHLIGHTS

ZONES 0, 1, 2 (gas) & Mines



The XPR-5568RX Intrinsically Safe angle light is a flashlight, a floodlight and a Dual-Light angle light that is cULus, ATEX, IECEx and MSHA certified Intrinsically Safe. The flashlight rotates 90 degrees up and down with a 45 degree downward angled floodlight.

The flashlight setting offers user-selectable brightness settings of 200, 110 and 60 Lumens with a 401 meter beam distance. The ultra-tight beam is perfect for cutting through smoke and lighting up objects at great distances. The floodlight setting has userselectable brightness settings of 100, 40 and a "Survival Mode" of 20 lumens that provides just enough light in an emergency situation with a run-time of 27 hours.

Battery charge status indicator (only with rechargeable battery) Rechargeable Lithium-ion Battery Pack included. Wall or Vehicle Mounted Charger.





ITEM REFERENCES	
Model:	Item No.:
XPR-5568RX	1E1302

TECHNICAL SPECIFICATIONS	
Marking: ATEX	EX I M1 Ex ia op is I Ma
Marking: NEC 500	CLASS I DIV 1 GRPS A-D T3 CLASS II & III DIV1 GRPS E-G T135°C CLASS I ZONE 0 AEx ia IIC T3 Ga
Certificate:	EU-Type Examination Certificate
Ingress protection:	IP67
LED:	CREE LED (50,000+ hours LED life)
Run time:	Flashlight: High 7 h Medium 15 h Low 27 h Floodlight: High 7 h Medium 15 h Low 27 h Dual-Light: 7 h
Luminous flux:	Flashlight: 200 lm (High) 110 lm (Medium) 60 lm (Low) Floodlight: 100 lm (High) 40 lm (Medium) 20 lm (Low) Dual-Light: 205 lm
Beam distance:	401 m (High) 250 m (Medium) 187 m (Low)
Weight:	301 g (with battery)
Dimensions:	53 mm (bezel diameter) 66 mm (width) 168 mm (length) 66 mm (depth)
Rechargeable battery:	Lithium-ion
Recharge time:	4 h
Operating temperature:	-20°C to +40°C

EXPLOSION-PROOF ANGLE LAMP HL 12 EX

Zones 0, 1, 2, 20, 21, 22

ATEX FLASHLIGHTS

ZONES 0, 1, 2 (gas) & 20, 21, 22 (dust)

ZONE

Explosion-proof hand lamps in angle form, very bright and extremely lightweight. Two light levels and flashing mode.

Certified for all gases and dust.

The battery pack and the retaining clip can be replaced by the operator.

Inspected according to EMC provisions and is permitted for use in vehicles.

3 AA batteries included in the delivery.





ITEM REFERENCES	
Model:	Item No.:
HL 12 Ex	1E1001

	TECHNICAL SPECIFICATIONS
Marking:	Ex II 1G Ex ia IIC T4 Ga II 1D Ex ia IIIC T 135°C Da
Certificate:	EU-Type Examination Certificate
Lamp:	Power LED
Ingress protection:	IP67
Switch levels:	2 light levels + flashing mode
Run time:	ca. 5 h / 11 h. Capacity display
Luminous flux:	Approx. 200 / 55 lm
Beam distance:	Up to approx. 200 m
Power source:	3 AA batteries (included)
Weight:	Approx. 280g
Dimensions:	61x90x200 mm

EXPLOSION-PROOF RECHARGEABLE ANGLE LAMP HL 12 EX

Zones 1, 2, 21, 22

ATEX FLASHLIGHTS

ZONES 1, 2 (gas) & 21, 22 (dust)



Explosion-proof rechargeable hand lamps in angle form, very bright and extremely lightweight. Two light levels and flashing mode.

The battery pack and the retaining clip can be replaced by the operator.

Inspected according to EMC provisions and is permitted for use in vehicles.

Capacity display.





ITEM REFERENCES	
Model:	Item No.:
HL 12 Ex Rechargeable (Charging station not included)	1E1002
Charging unit 100230V AC	1E0402
Charging unit 1224V DC	1E0403
HL 12 Ex Set (Lamp + Charging unit 100230V AC)	1E1003
HL 12 Ex Set (Lamp + Charging unit 1224V DC)	1E1004

	TECHNICAL SPECIFICATIONS
Marking:	II 2G Ex ib IIC T4 Gb II 2D Ex ib IIIC T 135℃ Db
Certificate:	EU-Type Examination Certificate
Lamp:	Power LED
Rechargeable battery:	Li-ion 3,7 V - 2,6 Ah
Recharge time:	Approx. 4 h
Charging voltage:	230 V AC 50/60Hz 12/24V DC
Ingress protection:	IP67
Switch levels:	2 light levels + flashing mode
Run time:	Approx. 5h / 11h
Luminous flux:	Approx. 200 lm / 55 lm
Beam distance:	Approx. 200 m
Weight:	Approx. 280g
Dimensions:	61x90x200 mm

EXPLOSION-PROOF ANGLE LAMP HL 35 EX

Zones 0, 1, 2, 20, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX FLASHLIGHTS

ZONES 0, 1, 2 (gas) & 20, 21, 22 (dust)



Explosion-proof LED flexible high power head lamp, for installation in vehicles or buildings.

- ATEX certified (all gases and dusts)
- Lithium-Ion-Accu (3,7 V / 5,0 Ah)
- Protection against total discharge
- LCD capacity indicator (hours and minutes)
- Emergency light function
- 3 step switch = 3 steps for brightness
- Impact-resistant, dust-proof + submersible up to 1 m
- Swivelling lamp head at 180°
- Equipped with a stable rubber protection ring
- Clamp unit with ring loop





ITEM REFERENCES	
Model:	Item No.:
HL 35 Ex HIGH POWER (Charging station not included)	1E2201
HL 35 Ex HIGH POWER (Lamp + Charging unit 1224V DC)	1E2202
HL 35 Ex HIGH POWER (Lamp + Charging unit 1224V DC + 230V)	1E2203

TECHNICAL SPECIFICATIONS		
Marking:	K II 1G Ex ia IIC T4 Ga II 1D Ex ia IIIC T 135°C Da	
Certificate:	EU-Type Examination Certificate	
Housing:	Non flammable plastic. Yellow/Black	
Ingress protection:	IP67	
Batteries:	Lithium-Ion-Accu (3,7 V / 5,0 Ah)	
Charging time:	9 h approx.	
Operating time:	Level 1: 10 h Level 2: 5 h Level 3: 4 h (approx.)	
Luminous flux:	Level 1: 135 lumens Level 2: 300 lumens Level 3: 380 lumens (approx.) (Lumens values may differ by +/- 10%)	
Beam distance:	300 m approx.	
Weight:	600g approx.	
Dimensions:	237x105x77 mm	

EXPLOSION-PROOF RECHARGEABLE HAND LAMP SLE 15 LED SET

Zones 1, 2, 21, 22

ATEX FLASHLIGHTS

ZONES 1, 2 (gas) & 21, 22 (dust)

The microprocessor controlled, rechargeable hand lamp, model EX SLE 15 LED, made of impact-resistant, high-quality plastic was certified according to the directive 2014/34/EU and relevant EMC provisions and may be used in vehicles.

The EX SLE 15 LED can be operated in a permanent, blinking and pilot lamp function and used as a warning light.



Flexible lamp head.

4-stage charge level display.

Emergency light function, turns on in the event of a power failure.

Maintenance-free led gel rechargeable battery.

12V-24V charger included.

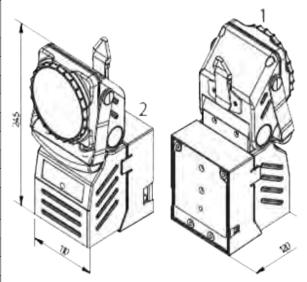




ITEM REFERENCES	
Model:	Item No.:
EX SLE 15 LED SET	1E0302

TECHNICAL SPECIFICATIONS	
Marking:	II 2G Ex ib IIC T4 Gb
Certificate:	EU-Type Examination Certificate
Housing:	Plastic, shock-resistant
Ingress protection:	IP64
Lamp:	Power LED (approx. 180 lumen)
Operating time:	Approx. 5h
Beam distance:	Approx. 150m
Pilot lamp:	LED 5 mm
Operating time pilot lamp:	Approx. 75h
Rechargeable battery:	Lead-gel rechargeable battery Maintenance-free
Charging voltage:	230V AC 50/60Hz, 12/24V DC
Weight:	1100 g
Dimensions:	104x245x120 mm
Operating temperature:	-20°C to +40°C

Dimensions in mm



Dimensions AccuLux EX SLE 15 LED Dimensions AccuLux EX SLE 16 LED

EXPLOSION-PROOF RECHARGEABLE HAND LAMP SLE 16 LED SET

Zones 1, 2, 21, 22

ATEX FLASHLIGHTS

ZONES 1, 2 (gas) & 21, 22 (dust)

FLASHLIGHTS & HEADLAMPS 😨 2



The microprocessor controlled, rechargeable hand lamp, model EX SLE 16 LED, made of impact-resistant, high-quality plastic was certified according to the directive 2014/34/EU and relevant EMC provisions and may be used in vehicles.

The EX SLE 16 LED can be operated in a permanent, blinking and pilot lamp function and used as a warning light.



Flexible lamp head.

4-stage charge level display.

Emergency light function, turns on in the event of a power failure.

Maintenance-free led gel rechargeable battery.

12V-24V charger included.

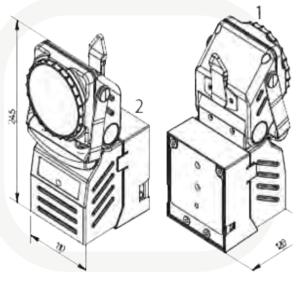




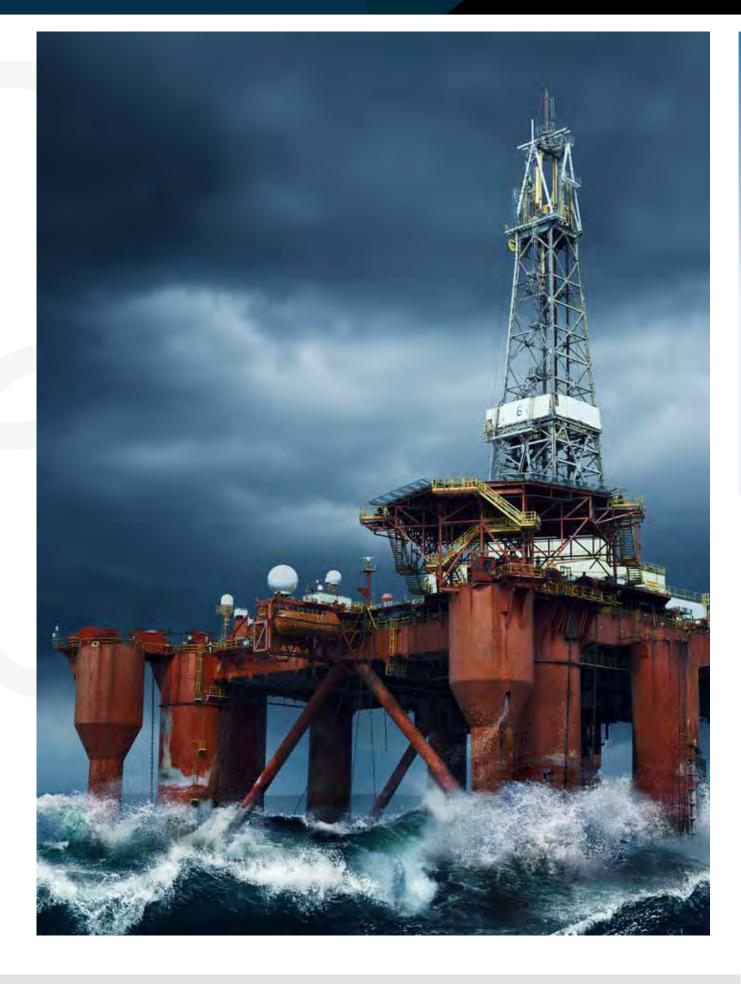
ITEM REFERENCES	
Model:	Item No.:
EX SLE 16 LED SET	1E0303

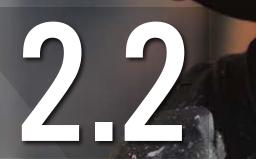
TECHNICAL SPECIFICATIONS	
Marking:	II 2G Ex ib IIC T4 Gb II 2D Ex ib IIIC T135°C Db
Certificate:	EU-Type Examination Certificate
Housing:	Plastic, shock-resistant
Ingress protection:	IP64
Lamp:	Power LED (approx. 180 lm)
Operating time:	Approx. 5h
Beam distance:	Approx. 170 m
Pilot lamp:	LED 5 mm
Operating time pilot lamp:	Approx. 75h
Rechargeable battery:	Lead-gel rechargeable battery Maintenance-free
Charging voltage:	230V AC 50/60Hz, 12/24V DC
Weight:	1100 g
Dimensions:	104x245x120 mm
Operating temperature:	-20°C to +40°C

Dimensions in mm



Dimensions AccuLux EX SLE 15 LED Dimensions AccuLux EX SLE 16 LED





HEADLANDS

XPP-5454G DUAL LIGHT HEADLAMP

Zones 0, 1, 2

ATEX HEADLAMPS

ZONES 0, 1, 2 (gas)

This 3 AAA multi-function Dual-Light headlamp is cETLus, ATEX, INMETRO and IECEx listed Intrinsically Safe.



Heavy-duty rubber strap for hard hat applications.

Power comes from 3 AAA batteries (included).

This headlamp features a multi-position tilt head design and includes an elastic head strap with a non-slip lining and a heavy-duty rubber head strap for use on a hard hat.

The dual top mounted switches provide user-selectable high or low-brightness spotlight, high or low-brightness floodlight operation and our exclusive Dual-Light design...the ability to turn on both the spotlight and the floodlight at the same time for maximum user safety and lighting versatility.





ITEM REFERENCES	
Model:	Item No.:
XPP-5454G	1E0801

TECHNICAL SPECIFICATIONS	
Marking: ATEX	😥 II 1G Ex ia IIC T3 Ga
Marking: NEC 500	CLASS I DIV 1 GRPS A-D T3 CLASS II & III GRPS E-G T135C CLASS I ZONE 0 AEx ia IIC T3 Ga CLASS I ZONE 0 Ex ia IIC T3 Ga
Certificate:	EU-Type Examination Certificate
Ingress protection:	IP67
Light Source:	CREE LED (50,000 + hours LED life)
Run time:	Flashlight: High 5 h Low 16,25 h Floodlight: High 5,25 h Low 16,75 h Dual-Light: 3,5 h
Luminous flux:	Flashlight: High: 115 lm Low: 60 lm Floodlight: High: 120 lm Low: 60 lm Dual-Light: 160 lm
Beam distance:	82 m / 60 m
Power source:	3 x AAA (included)
Weight:	94 g
Dimensions:	66 x 45 x 53 mm
Operating temperature:	-20°C to +40°C

XPP-5456G MULTI-FUNCTION DUAL-LIGHT HEADLAMP

Zones 0, 1, 2

ATEX HEADLAMPS

ZONES 0, 1, 2 (gas) & Mines



Heavy-duty rubber strap for hard hat applications. Power comes from 3 AAA batteries (included). This 3 AA Dual-Light multi-function headlamp is cETLus, ATEX, IECEx and MSHA listed Intrinsically Safe permissible.

The headlamp features a multi-position tilt head design, a rear-mounted battery compartment and includes both an elastic head strap with a non-slip lining and a heavy-duty rubber strap for use with hard hats.

The top mounted dual switches provide spotlight, full-power white floodlight, half-power white floodlight and red floodlight operation.





ITEM REFERENCES	
Model:	Item No.:
XPP-5456G	1E0901

	TECHNICAL SPECIFICATIONS
Marking: ATEX	😥 I M1 Ex ia I Ma 🔂 II 1G Ex ia IIC T3 Ga
Marking: NEC 500	CLASS I DIV 1 GRPS A-D T3 CLASS II & III GRPS E-G T135C CLASS I ZONE 0 AEx ia IIC T3 Ga CLASS I ZONE 0 Ex ia IIC T3 Ga
Certificate:	EU-Type Examination Certificate
Ingress protection:	IP67
Light Source:	CREE LED (50,000 + hours LED life)
Run time:	Flashlight: 18 h White Floodlight: High 13,5 h Low 75 h Red Floodlight: 37 h Dual-Light: 6,5 h
Luminous flux:	Flashlight: 100 lm White Floodlight: High: 90 lm Low: 20 lm Dual-Light: 175 lm Red Spotlight: 18 lm
Beam distance:	140 m
Power source:	3 x AAA (included)
Weight:	269 g
Dimensions:	84 x 84 x 89 mm
Operating temperature:	-20°C to +40°C

XPP-5460GX LOW-PROFILE DUAL-LIGHT HEADLAMP

Zones 0, 1, 2



The XPP-5462GX includes a heavy-duty rubber head strap for use on a fire helmet or hard-hat, and is powered by 3 AAA batteries (included).

ITEM REFERENCES	
Model:	Item No.:
XPP-5460GX	1E1401

TECHNICAL SPECIFICATIONS		
Marking: ATEX	😥 II 1G Ex ia IIC T4 Ga	
Marking: NEC 500	CLASS I DIV 1 GRPS A-D T4 CLASS II & III DIV 1 GRPS E-G CLASS I ZONE 0 GRP IIC T4 CLASS II ZONE 20 IIIC T135°C	
Certificate:	EU-Type Examination Certificate	
Ingress protection:	IP67	
Lamp:	CREE LED (50,000 + hours LED life)	
Run time:	Flashlight: High 3,5 h Low 10 h Floodlight: High 3,5 h Low 10 h Dual-Light: 3 h	
Luminous flux:	Flashlight: High:180 lm Low 100 lm Floodlight: High 180 lm Low 100 lm Dual-Light: 200 lm	
Beam distance:	106 m	
Power source:	3 Alkaline AAA batteries (included)	
Weight:	165 g	
Dimesions:	90 x 40 x 47 mm	
Operating temperature:	-20°C to +40°C	

Zones 0, 1, 2

ATEX HEADLAMPS

ZONES 0, 1, 2 (gaz)

Intrinsically Safe Low-Profile Dual-Light[™] Headlamp is cULus, ATEX and IECEx listed Intrinsically Safe and is designed specifically to work on fire helmets and hard-hats that have a flip-up face shield.



The XPP-5462GX includes a heavy-duty rubber head strap for use on a fire helmet or hard-hat.

ITEM REFERENCES	
Model:	Item No.:
XPP-5462GX	1E1801

	TECHNICAL SPECIFICATIONS
Marking: ATEX	😥 II 1G Ex ia IIC T4 Ga
Marking: NEC 500	CLASS I DIV 1 GRPS A-D T4 CLASS II & III DIV 1 GRPS E-G CLASS I ZONE 0 GRP IIC T4 CLASS II ZONE 20 IIIC T135°C
Certificate:	EU-Type Examination Certificate
Ingress protection:	IP67
Lamp:	LED
Run time:	Flashlight: High 6,75 h Low 25 h Floodlight: High 7 h Low 25 h Dual-Light: 6 h
Luminous flux:	Flashlight: High 275 lm Low: 100 lm Floodlight: High: 250 lm Low: 100 lm Dual-Light: 310 lm
Beam distance:	106 m
Power source:	3 x AA batteries (included)
Weight:	265 g
Dimensions:	32 x 95 x 25 mm
Operating temperature:	-20°C a +40°C

XPR-5562GX USB LOW-PROFILE DUAL-LIGHT HEADLAMP

Zones 0, 1, 2

Full catalogue available on our website: www.inpratex.com

ATEX HEADLAMPS

ZONES 0, 1, 2 (gaz)

The USB Intrinsically Safe Rechargeable Dual-Light Headlamp is cULus, ATEX and IECEx listed Intrinsically Safe and is designed to work on hard-hats and fire helmets that have a flip-up face shield.

The unique low-profile shape allows you to work without removing the headlamp when raising or lowering a face shield. The XPR-5562GX is manufactured from engineered polymer and features a multi-position tilt head design. Both the spotlight and the floodlight use LED technology with advanced (TIR) Total Internal Reflection lens designed to optimize lumen output and beam pattern.

Enlarged front-mounted dual switches provide easy access to the spotlight for distance illumination, the floodlight for close-up illumination, and Dual-Light for maximum lighting, versatility, and user safety.

The XPR-5562GX includes a heavy-duty rubber head strap, a 4 foot USB magnetic coupler charge card, and is powered by a Li-Ion rechargeable battery.





EU-Type Examination Certificate

IECE,



ITEM REFERENCES	
Model:	Item No.:
XPR-5562GX	1E2001

TECHNICAL SPECIFICATIONS		
Marking: ATEX	😥 II 1G Ex ia op is IIC T4 Ga	
Marking: NEC 500	CLASS I DIV 1 GRPS A-D T4 CLASS II & III DIV 1 GRPS E-G T135°C CLASS I ZONE 0 AEx ia op is IIC T4 Ga	
Certificate:	EU-Type Examination Certificate	
Operating temperature:	-20°C to +40°C	
Case material:	Engineered polymer	
Spotlight Lumens/Runtime:	HIGH: 275 lm, 6 hrs. runtime LOW: 100 lm, 15 hrs. runtime	
Floodlight Lumens/Runtime:	HIGH: 250 lm, 6 hrs. runtime LOW: 100 lm, 15 hrs. runtime	
Dual-light Lumens/Runtime:	300 lm, 5 hrs. runtime	
Candela:	HIGH: 3,660	
Beam distance:	120 m	
Ingress protection:	IP67	
Drop rating:	2 meters	
Dimensions:	LENGTH: 31 mm WIDTH: 95 mm DEPTH: 25 mm	
Weight:	164 g	
Battery:	Integrated Li-ion	

EXPLOSION-PROOF HEADLAMP STL 1 EX

Zones 0, 1, 2

ATEX HEADLAMPS

ZONES 0, 1, 2 (gas)

STL 1 EX is a high-power LED head lamp for use in hazard zones and is equipped with three AAA alkaline batteries. The lamp has two light modes, is extremely bright and has a long operating time

Setting the tilt angle possible in locking steps.

Two brightness levels: approx. 6.5 h / 174 lm (100%) approx. 13 h / 90 lm (50%)





ITEM REFERENCES	
Model:	Item No.:
STL 1 Ex	1G0101

TECHNICAL SPECIFICATIONS		
Marking:	😥 II 1G Ex ia IIC T4	
Certificate:	EU-Type Examination Certificate	
Housing:	Robust casing, screw fastening due to safety reasons	
Ingress protection:	IP67	
Lamp:	LED CREE	
Luminous flux:	174 lm (100%)	90 lm (50%)
Beam distance:	Approx. 100 m	
Run time:	6,5 h (100%)	13 h (50%)
Power source:	3x AAA alkaline (included)	
Weight:	Approx. 165 g	







3 - SIGNALLING DEVICES

Visual and acoustic signaling equipment certified for installation in ATEX environements.

Heavy-duty, rugged signal beacons ideal for use in oil refineries, off-shore platforms, chemical, petrochemical and marine industries, always with the required degree of safety for each hazardous area.

Inpratex also provides sirens and high-volume loudspeakers made from highly resistant materials.

The full range includes combined visual and acoustic equipment.

<u>3.1 - Optical Signalling</u>	102
<u>3.2 - ACOUSTIC SIGNALLING</u>	120
<u>3.3 - OPTICAL & ACOUSTIC SIGNALLING</u>	136

Our product ranges are constantly updated on our website: www.inpratex.com



BC 150 LED BEACON / LIGHT - GRP

Zones 1, 2, 21, 22

ATEX VISUAL SIGNALLING DEVICES ZONES 1, 2 (gas) & 21, 22 (dust)



This beacon is certified for use in ATEX/Explosive Atmosphere, zone 1 & 2 for gas and zone 21 & 22 for dust. It is dedicated for Oil & Gas, chemical, petrochemical, pharmacy industries, marine and offshore applications.

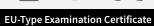
It's designed for corrosive environnements and hazardous area. The BC150 can also be used as status light.

Housing is moulded Glass-Reinforced Polyester (GRP), dyed in the mass and protected by an UV resistant paint, the lens is made of borosilicate glass.

Four flashing frequencies are selectable.



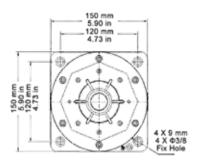
Optionally it is possible to control the beacon via a telephone line.

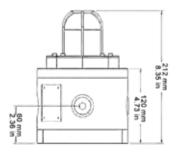


ITEM REFERENCES		
Designation:	Power consumption:	Item No.:
BC 150 12-48 VDC LED 10W Red	12VDC-1100mA / 24VDC-530mA / 48VDC-240 mA	2A1801
BC 150 12-48 VDC LED 10W Amber	12VDC-1100mA / 24VDC-530mA / 48VDC-240 mA	2A1802
BC 150 12-48 VDC LED 10W Blue	12VDC-1100mA / 24VDC-530mA / 48VDC-240 mA	2A1803
BC 150 12-48 VDC LED 10W Green	12VDC-1100mA / 24VDC-530mA / 48VDC-240 mA	2A1804
BC 150 12-48 VDC LED 10W White	12VDC-1100mA / 24VDC-530mA / 48VDC-240 mA	2A1805
BC 150 100-240 VAC LED 10W Red	110VAC-160mA / 220VAC-80mA	2A1806
BC 150 100-240 VAC LED 10W Amber	110VAC-160mA / 220VAC-80mA	2A1807
BC 150 100-240 VAC LED 10W Blue	110VAC-160mA / 220VAC-80mA	2A1808
BC 150 100-240 VAC LED 10W Green	110VAC <mark>-160m</mark> A / 220VAC-80mA	2A1809
BC 150 100-240 VAC LED 10W White	110VAC-160mA / 220VAC-80mA	2A1810

TECHNICAL SPECIFICATIONS

Marking:	(Ex d IIC T4-T6 Gb (Ex ll 2D Ex tb IIIC T135°C, T85° IP66	
Certificate:	EU-Type Examination Certificate	
Operating mode:	Steady / Rotary / Fixed / Blinking	
Housing:	Moulded Glass-Reinforced Polyester (GRP). Lens is made of borosilicate glass.	
Enclosure colour:	Standard: Red (RAL 3001) On request: Black (RAL 9004) Yellow (RAL 1018) Blue (RAL 5005)	
Power:	10W	
Light intensity:	312 Cd	
Weight:	3,8 kg	
Operating temperature:	-40°C to +55°C (T6) / -40°C to +60°C (T5) / -40°C to +70°C (T4)	
Ingress protection:	IP66/67	
Cable entries:	4xM20x1,5 holes	





ATEX VISUAL SIGNALLING DEVICES ZONES 1, 2 (gas) & 21, 22 (dust)



BC 125 Ex Beacon - Status Light. This beacon is certified for use in explosive atmosphere, zones 1 & 2 for gas and zones 21 & 22 for dust. It is dedicated for Oil & Gas, chemical, petrochemical, pharmacy industries, marine and offshore applications.

It's designed for corrosive environnements and hazardous area. The BC125 can also be used as status light.

Optionally it is possible to control the beacon via a telephone line.

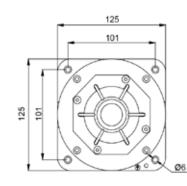
Housing in stainless steel 316L covered with UV resistant paint, the lens in borosilicate glass.

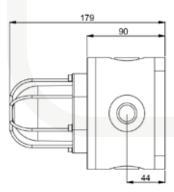


ITEM REFERENCES			
Designation:	Power consumption:	Item No.:	
BC 125 12-48 VDC LED 10W Red	12VDC-1100mA / 24VDC-530mA / 48VDC-240 mA	2A2101	
BC 125 12-48 VDC LED 10W Amber	12VDC-1100mA / 24VDC-530mA / 48VDC-240 mA	2A2102	
BC 125 12-48 VDC LED 10W Blue	12VDC-1100mA / 24VDC-53 <mark>0mA /</mark> 48VDC-240 mA	2A2103	
BC 125 12-48 VDC LED 10W Green	12VDC-1100mA / 24VDC-530mA / 48VDC-240 mA	2A2104	
BC 125 12-48 VDC LED 10W White	12VDC-1100mA / 24VDC-530mA / 48VDC-240 mA	2A2105	
BC 125 100-240 VAC LED 10W Red	110VAC-160mA / 220VAC-80mA	2A2106	
BC 125 100-240 VAC LED 10W Amber	110VAC-160mA / 220VAC-80mA	2A2107	
BC 125 100-240 VAC LED 10W Blue	110VAC-160mA / 220VAC-80mA	2A2108	
BC 125 100-240 VAC LED 10W Green	110VAC-160mA / 220VAC-80mA	2A2109	
BC 125 100-240 VAC LED 10W White	110VAC-160mA / 220VAC-80mA	2A2110	

TECHNICAL SPECIFICATIONS

Marking:	(x) II 2G Ex d IIC T4-T6 Gb II 2D Ex tb IIIC T135°C, T85° IP66	
Certificate:	EU-Type Examination Certificate	
Operating mode:	Steady / Rotary / Fixed / Blinking	
Housing:	Stainless Steel AISI 316L. Lens made of borosilicate glass.	
Enclosure colour:	Standard: Red (RAL 3001) On request: Black (RAL 9004) Yellow (RAL 1018) Blue (RAL 5005)	
Power:	10W	
Light intensity:	312 Cd	
Weight:	4,5 kg	
Operating temperature:	-40°C to +55°C (T6) / -40°C to +60°C (T5) / -40°C to +70°C (T4)	
Ingress protection:	IP66/67	
Cable entries:	4xM20x1,5 holes	





ATEX VISUAL SIGNALLING DEVICES ZONES 1, 2 (gas) & 21, 22 (dust)



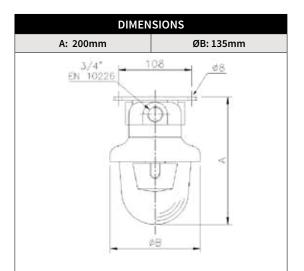
Explosion proof optical signallers suitable for hazardous area Zone 1 & Zone 21. EVC 50/F optical signallers are normally associated to alarm and signalling systems, either fixed or mobile.

They have reduced dimensions, they are completed with blinking Xenon flash lamp.



ITEM REFERENCES						
Designation:	Color:	Voltage/Frequency:	Current:	Power:	Blinking:	Item No.:
EVC 50/F LB 12/24	Light Blue					2A2501
EVC 50/F W 12/24	White		12/24 VAC/DC 90130 mA 13		75 cycles/min	2A2502
EVC 50/F Y 12/24	Yellow	12/24 VAC/DC				2A2503
EVC 50/F O 12/24	Orange			13 W		2A2504
EVC 50/F R 12/24	Red					2A2505
EVC 50/F G 12/24	Green					2A2506
EVC 50/F LB 110	Light Blue				2A2507	
EVC 50/F W 110	White					2A2508
EVC 50/F Y 110	Yellow	110 VAC 50/60 Hz	110 VAC	1.0.14	110	2A2509
EVC 50/F O 110	Orange		15 mA	1,8 W	110 cycles/min	2A2510
EVC 50/F R 110	Red					2A2511
EVC 50/F G 110	Green					2A2512
EVC 50/F LB 230	Light Blue					2A2513
EVC 50/F W 230	White					2A2514
EVC 50/F Y 230	Yellow	230 V 50/60 Hz	10 1	2.5.14	110 avalas/m:	2A2515
EVC 50/F O 230	Orange		10 mA	2,5 W	110 cycles/min	2A2516
EVC 50/F R 230	Red					2A2517
EVC 50/F G 230	Green					2A2518

TECHNICAL SPECIFICATIONS			
Marking:	II 2G Ex db IIC T6 Gb		
Certificate:	EU-Type Examination Certificate		
Operating mode:	Blinking		
Operating temperature:	-20°C to +40°C		
Ingress protection:	IP65		
Housing:	Aluminium light alloy (RAL 7000) Tempered borosilicate globe		
Connection:	E27		
Thermal emission:	6 J		
Weight:	1,5 kg		
Cable entries:	2x3/4" NPT (cable glands/plugs not included)		



ATEX VISUAL SIGNALLING DEVICES ZONES 1, 2 (gas) & 21, 22 (dust)



Optical signalling is often required for warning or notifying purposes in potentially explosive areas. The Strobe Light dSLB20 provides suitable signalling for these purposes.

It is designed for continuous operation and available for different operating voltages.

The dSLB20 is activated by connecting the power supply. The sturdy housing of ingress protection IP 66/67 is suitable for both indoor and outdoor applications.

The Ex II strobe light has a small flameproof aluminium housing containing the electronics. The cap is made of hardened borosilicate glass.

The terminal compartment is of protection type "increased safety".

A signalling combination can be established using the provided stainless steel mounting plate with integrated junction box.

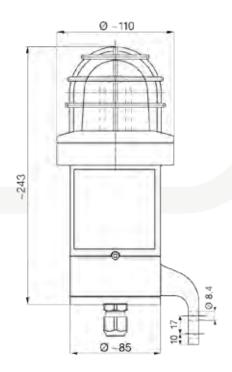


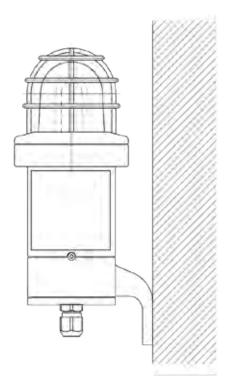
ITEM REFERENCES					
Designation:	Voltage:	Operating range:	Flash energy:	Current consumption:	Item No.:
dSLB 20 15 24 TRANSPARENT	24 VDC	21-53 VDC	15 J	1 A	2A0101A
dSLB 20 15 24 RED	24 VDC	21-53 VDC	15 J	1 A	2A0101B
dSLB 20 15 24 AMBER	24 VDC	21-53 VDC	15 J	1 A	2A0101C
dSLB 20 15 24 GREEN	24 VDC	21-53 VDC	15 J	1 A	2A0101D
dSLB 20 15 24 BLUE	24 VDC	21-53 VDC	15 J	1 A	2A0101E
dSLB 20 15 230 TRANSPARENT	230 VAC	207-253 VAC	15 J	200 mA	2A0103A
dSLB 20 15 230 RED	230 VAC	207-253 VAC	15 J	200 mA	2A0103B
dSLB 20 15 230 AMBER	230 VAC	207-253 VAC	15 J	200 mA	2A0103C
dSLB 20 15 230 GREEN	230 VAC	207-253 VAC	15 J	200 mA	2A0103D
dSLB 20 15 230 BLUE	230 VAC	207-253 VAC	15 J	200 mA	2A0103E
dSLB 20 5 12 TRANSPARENT	12 VDC	10-14 VDC	5 J	600 mA	2A0104A
dSLB 20 5 12 RED	12 VDC	10-14 VDC	5 J	600 mA	2A0104B
dSLB 20 5 12 AMBER	12 VDC	10-14 VDC	5 J	600 mA	2A0104C
dSLB 20 5 12 GREEN	12 VDC	10-14 VDC	5 J	600 mA	2A0104D
dSLB 20 5 12 BLUE	12 VDC	10-14 VDC	5 J	600 mA	2A0104E
dSLB 20 5 24 TRANSPARENT	24 VDC	21-53 VDC	5 J	280 mA	2A0105A
dSLB 20 5 24 RED	24 VDC	21-53 VDC	5 J	280 mA	2A0105B
dSLB 20 5 24 AMBER	24 VDC	21-53 VDC	5 J	280 mA	2A0105C
dSLB 20 5 24 GREEN	24 VDC	21-53 VDC	5 J	280 mA	2A0105D
dSLB 20 5 24 BLUE	24 VDC	21-53 VDC	5 J	280 mA	2A0105E
dSLB 20 5 230 TRANSPARENT	230 VAC	207-253 VAC	5 J	130 mA	2A0108A
dSLB 20 5 230 RED	230 VAC	207-253 VAC	5 J	130 mA	2A0108B
dSLB 20 5 230 AMBER	230 VAC	207-253 VAC	5 J	130 mA	2A0108C
dSLB 20 5 230 GREEN	230 VAC	207-253 VAC	5 J	130 mA	2A0108D
dSLB 20 5 230 BLUE	230 VAC	207-253 VAC	5 J	130 mA	2A0108E

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EXPLOSION-PROOF STROBE LIGHT DSLB 20 Zones 1, 2, 21, 22

TECHNICAL SPECIFICATIONS			
Marking:	(I) 2G Ex d e IIC T5, T6 Gb II 2D Ex tb IIIC T95°C, T80°C Db		
Certificate:	EU-Type Examination Certificate		
Operating conditions:	Indoor / Outdoor		
Operating mode:	Continuous operation		
Operating position:	Any		
Housing:	Aluminium, surface varnished or powder-coated. Colour: Yellow / Blue		
Cap:	Borosilicate glass dome with stainless steel protection cage		
Cap colour:	Red, amber, green and blue		
Lamp:	Xenon		
Flash energy:	5 J / 15 J		
Flash frequency:	Approx. 60/min (1 Hz)		
Average life cycle	Approx. 5x10 ⁶ flashes		
Weight:	Approx. 2 kg		
Operating temperature:	-55°C to +40°C (T6) -55°C to +55°C (T5)		
Ingress protection:	IP66/67		
Connection terminals:	Terminal capacity: 2,5 mm ² single-wire 1,5 mm ² fine-wire Protective earth – Screw connection with wire protection clamp in connection enclosure max. 2.5 mm ² Equipotential – Screw connection with wire bonding con-ductor protection clamp outside, cross section max. 4 mm		
Cable entries:	1xM20x1,5 plastic cable gland 1xM20x1,5 plug		





ATEX VISUAL SIGNALLING DEVICES ZONES 1, 2 (gas) & 21, 22 (dust)



Optical signalling is often required for warning or notifying purposes in potentially explosive areas. The Strobe Light dSLB 20 LED provides suitable signalling for these purposes. It is designed for continuous operation and available for different operating voltages.

The dSLB 20 LED is activated by connecting the power supply. The sturdy housing of ingress protection IP66/67 is suitable for both indoor and outdoor applications.

The Ex II strobe light has a small flameproof aluminium housing containing the electronics. The cap is made of hardened borosilicate glass. The terminal compartment is of protection type "increased safety".

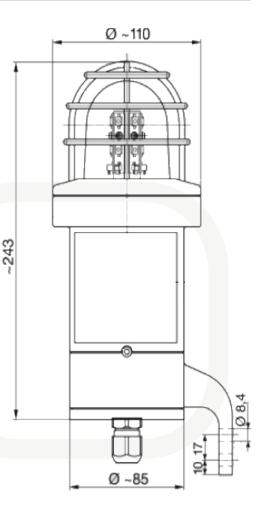
A signalling combination can be established using the provided stainless steel mounting plate with integrated junction box.





ITEM REFERENCES			
Designation:	Operating range:	Item No.:	
dSLB 20 LED 24 TRANSPARENT	24 VDC	2A0202A	
dSLB 20 LED 24 RED	24 VDC	2A0202B	
dSLB 20 LED 24 AMBER	24 VDC	2A0202C	
dSLB 20 LED 24 GREEN	24 VDC	2A0202D	
dSLB 20 LED 24 BLUE	24 VDC	2A0202E	
dSLB 20 LED 220 TRANSPARENT	80265 VAC	2A0204A	
dSLB 20 LED 220 RED	80265 VAC	2A0204B	
dSLB 20 LED 220 AMBER	80265 VAC	2A0204C	
dSLB 20 LED 220 GREEN	80265 VAC	2A0204D	
dSLB 20 LED 220 BLUE	80265 VAC	2A0204E	

TECHNICAL SPECIFICATIONS			
Marking:	(EX) II 2G Ex de IIC T5, T6 Gb (EX) II 2D Ex tb IIIC T95°C, T80° Db		
Certificate:	EU-Type Examination Certificate		
Operating conditions:	Indoor / Outdoor		
Housing:	Aluminium, surface varnished or powder-coated. Borosilicate glass dome		
Protection cage:	Stainless steel		
Cap colour:	Transparent, Red, Amber, Green, Blue		
Weight:	Approx. 2 kg		
Operating temperature:	-40°C to +40°C		
Ingress protection:	IP66/67		
Cable entries:	1xM20x1,5 plastic cable gland		



SL 150 COMBINED STATUS LIGHTS - GRP

Zones 1, 2, 21, 22

ATEX VISUAL SIGNALLING DEVICES ZONES 1, 2 (gas) & 21, 22 (dust)



SL 150 combined status lights in GRP. This signalling device is certified for use in ATEX zones 1,2 for gas and 21,22 for dust.

Suitable for Oil & Gas, chemical, petrochemical, pharmacy industries, marine and offshore applications.

It's designed for corrosive environments and hazardous areas.

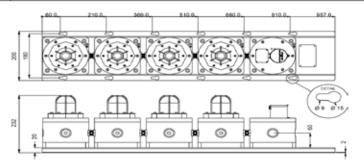
Possibility to pilot all, or separately the beacons via a telephone line.



ITEM REFERENCES				
Designation:	Power consumption:	Weight:	Item No.:	
SL-150-A20 24V - 2 beacons	12 - 48V DC	8,9 kg	2A1901	
SL-150-A20 220V - 2 beacons	100 - 240V AC	8,9 kg	2A1902	
SL-150-B3J 24V - 2 beacons + junction box	12 - 48V DC	13,1 kg	2A1903	
SL-150-B3J 220V - 2 beacons + junction box	100 - 240V AC	13,1 kg	2A1904	
SL-150-B30 24V - 3 beacons	12 - 48V DC	13,1 kg	2A1905	
SL-150-B30 220V - 3 beacons	100 - 240V AC	13,1 kg	2A1906	
SL-150-C4J 24V - 3 beacons + junction box	12 - 48V DC	17,4 kg	2A1907	
SL-150-C4J 220V - 3 beacons + junction box	100 - 240V AC	17,4 kg	2A1908	
SL-150-C40 24V - 4 beacons	12 - 48V DC	17,4 kg	2A1909	
SL-150-C40 220V - 4 beacons	100 - 240V AC	17,4 kg	2A1910	
SL-150-D5J 24V - 4 beacons + junction box	12 - 48V DC	21,6 kg	2A1911	
SL-150-D5J 220V - 4 beacons + junction box	100 - 240V AC	21,6 kg	2A1912	
Lens colour: Red, Amber, Blue, Green, Clear				

TECHNI	CAL SPECIFICATIONS

Marking:	 W II 2G Ex d IIC T4T6 Gb W II 2D Ex tb IIIC T135°CT85°C
Certificate:	EU-Type Examination Certificate
Operating mode:	Steady, rotary, fixed or blinking
Housing:	ENCLOSURE: Glass Reinforced Polyester. LENS: Tempered borosilicate glass 3.3. FRAME: Stainless Steel 316L
Housing colour:	Black (RAL 9004) Red (RAL 3001) Yellow (RAL 1018) Blue (RAL 5005)
Power:	LED 10W
Light intensity:	312 Cd
Operating temperature:	-40°C to +70°C
Ingress protection:	IP66/67
Cable entries:	3xM20x1,5 holes



ATEX VISUAL SIGNALLING DEVICES ZONES 1, 2 (gas) & 21, 22 (dust)



SL-125 combined status lights in stainless steel. This signalling device is certified for use in ATEX zones 1,2 for gas and 21,22 for dust.

Suitable for Oil & Gas, chemical, petrochemical, pharmacy industries, marine and offshore applications.

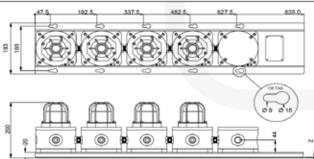
Possibility to pilot all, or separately the beacons via a telephone line.



ITEM REFERENCES				
Designation:	Power consumption:	Weight:	Item No.:	
SL-125-A20 24V - 2 beacons	12 - 48V DC	10,2 kg	2A2201	
SL-125-A20 220V - 2 beacons	100 - 240V AC	10,2 kg	2A2202	
SL-125-B3J 24V - 2 beacons + junction box	12 - 48V DC	15 kg	2A2203	
SL-125-B3J 220V - 2 beacons + junction box	100 - 240V AC	15 kg	2A2204	
SL-125-B30 24V - 3 beacons	12 - 48V DC	15 kg	2A2205	
SL-125-B30 220V - 3 beacons	100 - 240V AC	15 kg	2A2206	
SL-125-C4J 24V - 3 beacons + junction box	12 - 48V DC	20 kg	2A2207	
SL-125-C4J 220V - 3 beacons + junction box	100 - 240V AC	20 kg	2A2208	
SL-125-C40 24V - 4 beacons	12 - 48V DC	20 kg	2A2209	
SL-125-C40 220V - 4 beacons	100 - 240V AC	20 kg	2A2210	
SL-125-D5J 24V - 4 beacons + junction box	12 - 48V DC	24,5 kg	2A2211	
SL-125-D5J 220V - 4 beacons + junction box	100 - 240V AC	24,5 kg	2A2212	
Lens colour: Red, Amber, Blue, Green, Clear				

TECHN	ICAL SPE	ECIFICA	TIONS

Marking:	 ₩ II 2G Ex d IIC T4T6 Gb ₩ II 2D Ex tb IIIC T135°CT85°C
Certificate:	EU-Type Examination Certificate
Operating mode:	Steady, rotary, fixed or blinking
Housing:	ENCLOSURE & FRAME: Stainless Steel 316. LENS: Tempered borosilicate glass 3.3
Housing colour:	Black (RAL 9004) Red (RAL 3001) Yellow (RAL 1018) Blue (RAL 5005)
Power:	LED 10W
Light intensity:	312 Cd
Operating temperature:	-40°C to +70°C
Ingress protection:	IP66/67
Cable entries:	3xM20x1,5 holes



ATEX VISUAL SIGNALLING DEVICES ZONES 1, 2 (gas) & 21, 22 (dust)



Robust, flameproof optical signalling LED technology device of Device Group II and III for use in explosive atmospheres, zones 1 and 2 or zones 21 and 22.

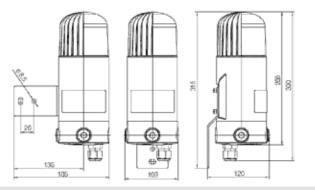
The available operating modes are Continuous light, Strobe light, Blinking light and Rotating light, and turning on the supply voltage activates the device.



ITEM REFERENCES				
Designation:	Power consumption:	Item No.:		
Expertline LED, 24VDC, White	1280 mA	2A1701		
Expertline LED, 24VDC, Red	850 mA	2A1702		
Expertline LED, 24VDC, Yellow	900 mA	2A1703		
Expertline LED, 24VDC, Green	1200 mA	2A1704		
Expertline LED, 24VDC, Blue	1250 mA	2A1705		
Expertline LED, 230VAC, White	55 mA	2A1706		
Expertline LED, 230VAC, Red	47 mA	2A1707		
Expertline LED, 230VAC, Yellow	47 mA	2A1708		
Expertline LED, 230VAC, Green	55 mA	2A1709		
Expertline LED, 230VAC, Blue	55 mA	2A1710		

TECHN	ICAL	SPEC	IFICAT	IONS
I E GI III				

Marking:	6 II 2G Ex e mb [ib] IIC T4 1 2D Ex mbD tD A21 IP66 T130°C
Certificate:	EU-Type Examination Certificate
Operating conditions:	Indoor / Outdoor
Housing:	Polycarbonate with stainless steel wall bracket
Ingress protection:	IP66
Weight:	Approx. 2,5 kg
Operating temperature:	-20°C to +65°C / 24VDC -20°C to +60°C / 230 VAC
Cable entries:	1xM20x1.5 2x blind plugs M20x1.5



Zones 1, 2

Full catalogue available on our website: www.inpratex.com

ATEX VISUAL SIGNALLING DEVICES ZONES 1, 2 (gas)

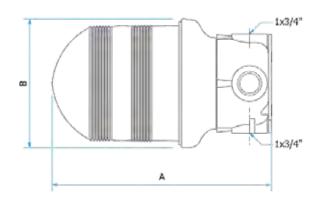


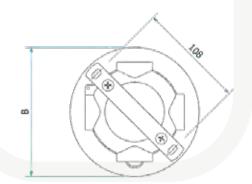
The OL-LPA serie of lighting fixtures are used to signal obstructions and are particularly suitable for use on towers or chimneys and high buildings.



ITEM REFERENCES			
Designation:	LED Lamp:	Item No.:	
OL-LPA RED	E27- ±8W - 230 VAC	2A2601	

TECHNICAL SPECIFICATIONS		
Marking:	😥 II 2G Ex d IIC T5 Gb	
Certificate:	EU-Type Examination Certificate	
Operating temperature:	-20°C to +40°C	
Ingress protection:	IP65	
Operating mode:	Continuous	
Body and cover:	Low cooper content Aluminium Alloy	
Globe:	Shock and temperature resistant borosilicate glass	
Fresnel lens:	Shock and UV resistant Polycarbonate	
Gasket:	Acid/Hidrocarbon resistant Silicone	
Bolt and screws:	ST.ST.A2	
Housing finish:	Epoxy coating. RAL 7000 (Grey)	
Power supply:	230VAC	
Frequency:	50/60 Hz	
Lamp holder:	E27 - Direct connection to lamp holder	
Cable entries:	2x 3/4" NPT (cable glands not included)	





Full catalogue available on our website: www.inpratex.com



The signal lamp type AB1-M3 reliably indicates signal status on machines and systems in hazardous areas in zone 1/2 and zone 21/22. The high degree of IP protection and the corrosion resistant stainless steel housing

EU-Type Examination Certificate

Due to the flat design and rounded edges, the signal lamp offers little surface for external damage and dirt deposits.

guarantee a long service life, even under aggressive environmental conditions.

ITEM REFERENCES				
Designation:	Color:	Cable lenght:	Item No.:	
AB1-M3-R0-1	Red		3A0101	
AB1-M3-Y0-1	Yellow		3A0102	
AB1-M3-G0-1	Green		3A0103	
AB1-M3-W0-1	White	– 1,5m	3A0104	
AB1-M3-B0-1	Blue		3A0105	
AB1-M3-RG-1	Red/Green		3A0106	
AB1-M3-R0-2	Red		3A0201	
AB1-M3-Y0-2	Yellow		3A0202	
AB1-M3-G0-2	Green	- 	3A0203	
AB1-M3-W0-2	White	- 3m	3A0204	
AB1-M3-B0-2	Blue	-	3A0205	
AB1-M3-RG-2	Red/Green		3A0206	
AB1-M3-R0-3	Red		3A0301	
AB1-M3-Y0-3	Yellow		3A0302	
AB1-M3-G0-3	Green	5m	3A0303	
AB1-M3-W0-3	White	5m	3A0304	
AB1-M3-B0-3	Blue		3A0305	
AB1-M3-RG-3	Red/Green		3A0306	
AB1-M3-R0-4	Red		3A0401	
AB1-M3-Y0-4	Yellow		3A0402	
AB1-M3-G0-4	Green	10m	3A0403	
AB1-M3-W0-4	White	TOW	3A0404	
AB1-M3-B0-4	Blue		3A0405	
AB1-M3-RG-4	Red/Green		3A0406	

CONNECT and ACT - Due to the approval as a device, the signal lamp can be installed in the front of a machine in the Ex zone without further certification. The low installation depth enables a particularly space-saving use.

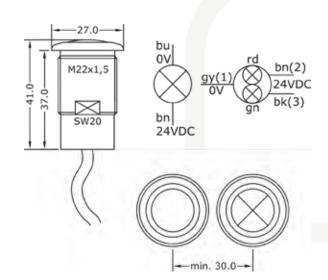
The indicator light has also been tested in order to be installed in certified control panels of types of protection Ex e and Ex t.







TECHNICAL SPECIFICATIONS		
Marking:	Ex II 2G Ex db eb IIC T6 Gb II 2D Ex tb IIIC T85°C Db	
Certificate:	EU-Type Examination Certificate	
Operating temperature:	-20°C to +60°C	
Operating voltage:	24 V DC +-10 %	
Current consumption:	max. 15 mA	
Fuse:	63 mA	
Flying lead:	3 x 0.5 mm ² Ø 5.1 mm	
Electrical connection:	(1) Grey = 0 V (2) Brown = 24 V DC red (3) Black = 24 V DC gn	
Material housing:	Stainless steel 1.4305	
Material lens:	Polycarbonate	
Sealing:	EPDM	
Ingress protection:	IP65	
Impact resistance:	7 Nm / 4 Nm (lens)	
Mounting hole:	22.0 22.3 mm / M22 x 1.5	
Torque:	8 Nm	
For housing thickness:	1.0 15.0 mm	
Weight:	100 gr (1.5 m)	
Scope of delivery:	Includes a plastic lock nut	



ATEX VISUAL SIGNALLING DEVICES ZONES 2 (gas) & 22 (dust)



The explosion proof LR4 and LR6 signal towers are expandable up to five LED segments that will not come off due to vibration. The ultra bright, maintenance free LED units have a vertically and horizontally ground lens combined with a double reflection sys tem. This guarantees an even and brilliant light output, and also makes them visible from greater distances.

The polycarbonate lenses and enclosure are dust and waterproof, and can withstand harsh conditions. Also available with fully enclosed sound module and blinker option to provide an audible and visual alarm.



The LR4 and LR6 signal towers are explosion proof and certified in accordance with European Directive 2014/34/EU and are CE marked.

- Includes stainless steel bracket for wall mounting
- Available with or without buzzer sound and blinker option
- Up to 5 LED units

ITEM REFERENCES LR4 (Ø40 mm)		
Designation:	Combination:	Item No.:
LR4-102WJBU-R-EX	One LED unit, red, with buzzer	3C0701
LR4-102WJNU-R-EX	One LED unit, red, without buzzer	3C0702
LR4-202WJBU-RG-EX	Two LED units, red and green, with buzzer	3C0703
LR4-202WJBU-RY-EX	Two LED units, red and yellow, with buzzer	3C0704
LR4-202WJNU-RG-EX	Two LED units, red and green, without buzzer	3C0705
LR4-202WJNU-RY-EX	Two LED units, red and yellow, without buzzer	3C0706
LR4-302WJBU-RYG-EX	Three LED units, red, yellow and green, with buzzer	3C0707
LR4-302WJNU-RYG-EX	Three LED units, red, yellow and green, without buzzer	3C0708
LR4-402WJBU-RYGB-EX	Four LED units, red, yellow, green and blue, with buzzer	3C0709
LR4-402WJNU-RYGB-EX	Four LED units, red, yellow, green and blue, without buzzer	3C0710
LR4-502WJBU-RYGBC-EX	Five LED units, red, yellow, green, blue and white, with buzzer	3C0711
LR4-502WJNU-RYGBC-EX	Five LED units, red, yellow, green, blue and white, without buzzer	3C0712

ITEM REFERENCES LR6 (Ø60 mm)			
Designation:	Combination:	Item No.:	
LR6-102WJBU-R-EX	One LED unit, red, with buzzer	3C0801	
LR6-102WJNU-R-EX	One LED unit, red, without buzzer	3C0802	
LR6-202WJBU-RG-EX	Two LED units, red and green, with buzzer	3C0803	
LR6-202WJBU-RY-EX	Two LED units, red and yellow, with buzzer	3C0804	
LR6-202WJNU-RG-EX	Two LED units, red and green, without buzzer	3C0805	
LR6-202WJNU-RY-EX	Two LED units, red and yellow, without buzzer	3C0806	
LR6-302WJBU-RYG-EX	Three LED units, red, yellow and green, with buzzer	3C0807	
LR6-302WJNU-RYG-EX	Three LED units, red, yellow and green, without buzzer	3C0808	
LR6-402WJBU-RYGB-EX	Four LED units, red, yellow, green and blue, with buzzer	3C0809	
LR6-402WJNU-RYGB-EX	Four LED units, red, yellow, green and blue, without buzzer	3C0810	
LR6-502WJBU-RYGBC-EX	Five LED units, red, yellow, green, blue and white, with buzzer	3C0811	
LR6-502WJNU-RYGBC-EX	Five LED units, red, yellow, green, blue and white, without buzzer	3C0812	

	TECHNICAL SPECIFICATIONS
Marking:	 II 3G Ex ec IIC T4 Gc II 3D Ex tc IIIC T80° Dc
Certificate:	Declaration of Conformity
Light color:	Red, Yellow, Green, Blue and White
Supply voltage:	24 VDC
Rated current at 24 VDC:	LR4: 135 mA without buzzer / 385 mA with buzzer LR6: 225 mA without buzzer / 475 mA with buzzer
Enclosure:	Plastic
Dimensions enclosure:	LR4: Ø40mm LR6: Ø60mm
Dimensions enclosure: Ingress protection:	LR4: Ø40mm LR6: Ø60mm IP65
Ingress protection:	IP65
Ingress protection: Connection:	IP65 Fixed cable

Zones 2, 22

ATEX VISUAL SIGNALLING DEVICES ZONES 2 (gas) & 22 (dust)

The Multicolour Light GH5 is designed as a fixed device of equipment group II category 3 for use in areas that can rarely and at short notice be endangered by an explosive atmosphere (zones 2, 22).

The light is an optical signalling device for universal use. The possible signalling colours red, yellow, green, blue and white serve many different signalling functions. The different signalling colours are generated in one single light element.

Every colour allows presetting one of the operating modes: continuous light, signalling light or flash light.



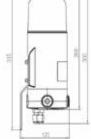


- The plastic enclosure and the cap consist of impact resistant polycarbonate.

- The device may be placed in any position. The mounting angle can be rotated 90°.

- 3 signal modes: Continuous light **Blinking light** Strobe light

1)
13	105	9





ITEM REFERENCES			
Designation:	Operating range:	Power:	Item No.:
GH5 - 230V	230 VAC, 50/60 Hz	< 12 W	2A1401
GH5 - 24V	24 VDC	< 4 W	2A1502

TECH	INICAL SPECIFICATIONS		
Marking:	II 3G Ex nR IIC T6 Gc		
Certificate:	Declaration of Conformity		
Operating conditions:	Indoor / Outdoor		
Housing / Cap:	Polycarbonate		
Ingress protection:	IP66		
Operating temperature:	-20°C to +50°C		
Current consumption (white colour):	230V - < 50 mA	24V - < 135 mA	
Connection:	Terminals 2,5 mm ²		
Connection cable:	Ø 7 to 12 mm		
Colour:	5 different signalling colours		
Weight:	Approx. 1,4 kg		
Cable entries:	e entries: 1xM20x1,5 plastic cable gland		

CAND	DELA*	
Colour: Green		
Continuous light	1.5 cd	
Flashing	0.4 cd	
Blinking	0.8 cd	
Colour: Blue		
Continuous light	0.5 cd	
Flashing	0.1 cd	
Blinking	0.3 cd	
Colour: Yellow		
Continuous light	2.3 cd	
Flashing	0.5 cd	
Blinking	1.3 cd	
Colour: Red		
Continuous light	1.2 cd	
Flashing	0.3 cd	
Blinking	0.6 cd	
Colour: White		
Continuous light	4.0 cd	
Flashing	0.5 cd	
Blinking	1.2 cd	

Full catalogue available on our website: www.inpratex.com

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(Ex

SIGNALLING

* The measurement has been done at the side and at the top using the valuation method Blondel-Rey.

Full catalogue available on our website: www.inpratex.com

ATEX VISUAL SIGNALLING DEVICES ZONES 2 (gas) & 22 (dust)



In potential explosive atmospheres it is often necessary to use optical signals for warning, indicating and signalling purposes. The Ex-Strobe light BZ2/BD22 offers these signalling options.

The BZ2/BD22 Strobe Light is activated by connecting the supply voltage. It may be delivered with 5 different dome colours.

The sturdy housing made of impact-resistant polycarbonate is realized in protection class IP66 and allows for indoor and outdoor applications. The dome consists of impact-resistant coloured polycarbonate.

A powerful Xenon flash tube transforms the electrical energy stored in the flash capacitor into light flashes with a high degree of efficiency.

Dome cap available in 5 differents colors.
 Stainless steel wall bracket.

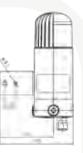
-Operating position: Any The mounting angle can be rotated 90°.

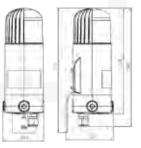
- Operating mode: Continuous operation



ITEM REFERENCES					
Designation:	Operating range:	Current consumption:	Temperature class / Operating temperature:	Item No.:	
BZ2/BD22 230 Red	230 VAC, 50-60 Hz +6/-10%	0,13 A	T4 / -20°C ≤ Ta ≤ +40°C	2A0601	
BZ2/BD22 230 Green	230 VAC, 50-60 Hz +6/-10%	0,13 A	T4 / -20°C ≤ Ta ≤ +40°C	2A0602	
BZ2/BD22 230 Blue	230 VAC, 50-60 Hz +6/-10%	0,13 A	T4 / -20°C ≤ Ta ≤ +40°C	2A0603	
BZ2/BD22 230 Transparent	230 VAC, 50-60 Hz +6/-10%	0,13 A	T4 / -20°C ≤ Ta ≤ +40°C	2A0604	
BZ2/BD22 230 Amber	230 VAC, 50-60 Hz +6/-10%	0,13 A	T4 / -20°C ≤ Ta ≤ +40°C	2A0605	
BZ2/BD22 24 Red	24 VDC 15-32 V	0,55 A	T5 / -20°C ≤ Ta ≤ +50°C	2A0801	
BZ2/BD22 24 Green	24 VDC 15-32 V	0,55 A	T5 / -20°C ≤ Ta ≤ +50°C	2A0802	
BZ2/BD22 24 Blue	24 VDC 15-32 V	0,55 A	T5 / -20°C ≤ Ta ≤ +50°C	2A0803	
BZ2/BD22 24 Transparent	24 VDC 15-32 V	0,55 A	T5 / -20°C ≤ Ta ≤ +50°C	2A0804	
BZ2/BD22 24 Amber	24 VDC 15-32 V	0,55 A	T5 / -20°C ≤ Ta ≤ +50°C	2A0805	

	TECHNICAL SPECIFICATIONS
Marking:	II 3G Ex nR IIC T5/T4 Gc II 3D Ex tc IIIC T85°C Dc
Certificate:	Declaration of Conformity
Operating conditions:	Indoor / Outdoor
Housing:	Polycarbonate (black)
Cap:	Polycarbonate (transparent, red, green, blue, amber)
Ingress protection:	IP66
Flash energy:	15 J - XENON lamp
Flash frequency:	60/min
Connection:	Terminals 2,5 mm ²
Weight:	Approx. 1,4 kg
Cable entries:	3xM20x1,5 1 plastic cable gland 2 plastic plugs





ATEX VISUAL SIGNALLING DEVICES ZONES 2 (gas) & 22 (dust)

The AR-047 omnidirectional explosion-safe LED signal light is designed for use under the most demanding conditions. The robust anodized aluminum housing and top plate, the 20 mm thick impact-resistant window, the O-ring seal and cast electronics ensure that the lamp is completely impervious to water and salt.

The 15 latest generation LEDs ensure a clearly perceptible visual signal. Dependent on the execution, the light will burn continuously or it blinks at a frequency of 1 Hertz. The signal light can be ordered either with a radial cable connection or with a connection on the back of the lamp.

This makes the lamp highly suitable for use as a warning light on control cabinets.

The connection cable has a standard length of 5 meters. For application under more demanding conditions there is also a version available with an AISI 316 stainless steel housing and top plate.



ITEM REFERENCES				
Designation:	Light color:	Lighting mode:	Connection:	Item No.:
AR-047 / 0 1 1 - R	Red	Continuous	3-wire connection	2A2301
AR-047 / 0 2 1 - R	Red	Blinking (1 Hertz)	3-wire connection	2A2302
AR-047 / 0 3 1 - R	Red	Continuous or Blinking, user selectable	4-wire connection	2A2303
AR-047 / 0 1 1 - Y	Yellow / Amber	Continuous	3-wire connection	2A2304
AR-047 / 0 2 1 - Y	Yellow / Amber	Blinking (1 Hertz)	3-wire connection	2A2305
AR-047 / 0 3 1 - Y	Yellow / Amber	Continuous or Blinking, user selectable	4-wire connection	2A2306
AR-047 / 0 1 1 - G	Green	Continuous	3-wire connection	2A2307
AR-047 / 0 2 1 - G	Green	Blinking (1 Hertz)	3-wire connection	2A2308
AR-047 / 0 3 1 - G	Green	Continuous or Blinking, user selectable	4-wire connection	2A2309

TECHNICAL SPECIFICATIONS		
Marking:	€ II 3G Ex ec IIC T4 Gc € II 3D Ex tc IIIC T135° Dc	
Certificate:	Declaration of Conformity	
Light color:	Red (625 nm), Yellow / Amber (610 nm) or Green (530 nm)	
Luminance:	Red: 4.250 Cd/m ² Yellow / Amber: 6.350 Cd/m ² Green: 8.300 Cd/m ²	
Material:	Anodized aluminum housing (AISI 316 stainless steel on request), 20 mm impact-resistant window (PMMA)	
Ingress protection:	IP65 according to EN 60529	
Supply voltage:	24 VDC ± 10%	
Nominal current:	160 mA @ 24 VDC	
Connection:	Radial: Fixed cable, 3 x 1 mm ² or 4 x 1 mm ² , length 5 m (Axial: On request)	
Earth connection:	External, stainless steel, 4 mm ²	
Ambient temperature:	-20 °C to +60 °C	
Dimensions:	Ø 95 x 52 mm (excl. cable gland)	
Assembly:	M5 tapped holes (3x) on an 81 mm pitch circle diameter	
Weight:	575 gr (aluminum) / 1.395 gr (stainless steel)	



EXPLOSION-PROOF SOUNDER DEV20

Zones 1, 2, 21, 22



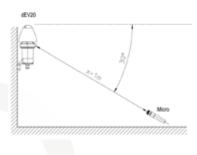
ZONES 1, 2 (gas) & 21, 22 (dust)

Hazardous areas often require the use of acoustical signals for warning or information purposes. The ExII-sounder dEV20 offers both of these signalling features and is designed for continuous operation.

The ExII-sounder dEV20 has an ingress protection rating of IP66, meaning it is suitable for both indoor and outdoor installation. The ExII-Sounder consists of a flame-proof housing manufactured from a light grade aluminium alloy and a sound channel made from impact-resistant polyester.

The sounder dEV20 includes two signal levels. The signal tone for the first level is adjusted with the slide switches 1-5 (S0) according to the signal choice list. The signal tone for the second signal level is adjusted with the slide switches 6-10 (S1).

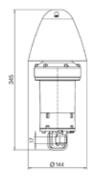
Delivery condition: S0 = Tone 24, S1 = Tone 4





ITEM REFERENCES			
Designation:	Input voltage: Current consumption:		Item No.:
dEV20 VDC	19.2-28.8 VDC 460 mA		3A0901
dEV20 VAC	85-264 VAC	93 mA (230 V)	3A0902

TECHNICAL SPECIFICATIONS		
Marking:	II 2G Ex d e IIB + H2 T6 Gb II 2D Ex tb IIIC T85°C Db	
Certificate:	EU-Type Examination Certificate	
Operating temperature:	-50 °C to +60 °C	
Operating conditions:	Indoor / Outdoor	
Housing:	Copper-free, seawater-resistant aluminium	
Cap:	Polyamid (black)	
Ingress protection:	IP66 according to IEC 60529	
Weight:	2.8 kg	
Volume:	Max. approx. 115 dB(A), can be lowered in 3 steps of 10 dB	
Signal tones:	32 per signalling stage	
Alarm tone selection:	Via DIP switch	
Current consumption:	93-460 mA (depending on voltage)	
Power consumption:	Max. 14 W	
Operating position:	Vertical, cable gland facing downwards	
Operating mode:	Continuous operation	
Connection terminals:	1,5 mm ² / 2,5 mm ² terminals	
Cable entries:	1xM20x1.5 (cable 5.5 to 13 mm)	







ZONES 1, 2 (gas) & 21, 22 (dust)

Zones 1, 2, 21, 22

ACOUSTIC SIGNALLING DEVICES



The mHG 11 Ex Signalling Hooter is designed for warning purposes in potentially explosive areas of zones 1, 2, 21 and 22.

The hooter is available with the common supply voltages and produces a sound level of approx. 108 dB(A).

The device is driven by a powerful, non-polarized electromagnet with an adjustable tappet that hits the membrane 100 to 120 times per second.

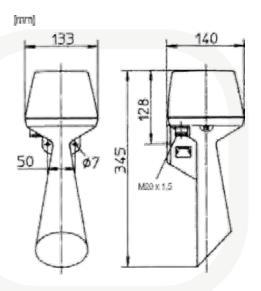
The DC version additionally comprises an electronic circuit breaker.

Volume: Approx. 108 dB(A), in 1 m distance.



		ITEM REFERENCES		
Designation:	Operating range:	Current consumption:	Temperature range:	Item No.:
mHG11	T4, 230 VAC	0,07 A	-55°C to +70°C	3A0601
mHG11	T5, 230 VAC	0,07 A	-55°C to +50°C	3A0602
mHG11	T4, 24 VDC	0,3 A	-55°C to+70°C	3A0605
mHG11	T5, 24 VDC	0,3 A	-55°C to +60°C	3A0606

TECHNICAL SPECIFICATIONS		
Marking:	€ II 2G Ex e mb IIC T4 Gb € II 2G Ex e mb IIC T5 Gb € II 2D Ex tb IIIC T90°C Db	
Certificate:	EU-Type Examination Certificate	
Operating conditions:	Indoor / Outdoor	
Housing:	Aluminium	
Weight:	Approx. 2 kg	
Ingress protection:	IP66	
Cable entries:	1xM20x1,5	



EXPLOSION-PROOF SIGNALLING HOOTER MHP11

Zones 1, 2

ACOUSTIC SIGNALLING DEVICES

ZONES 1, 2 (gas)

The mHP 11 Ex Signalling Hooter is designed for warning purposes in potentially explosive areas of zones 1 and 2.

The hooter is available with the common supply voltages and produces a sound level of approx. 108 dB(A).

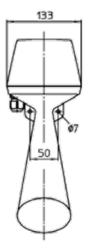
The device is driven by a powerful, non-polarized electromagnet with an adjustable tappet that hits the membrane 100 to 120 times per second.

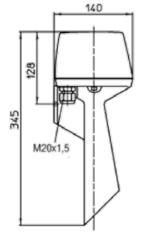
The DC version additionally comprises an electronic circuit breaker.



	ITEM REFERENCES				
Designation:	Operating range: Current consumption: Temperature range:		Weight:	Item No.:	
mHP11	T5, 230 VAC	0,07 A	-20°C to +50°C	±1.2 kg	3A0502
mHP11	T5, 24 VDC	0,3 A	-20°C to +60°C	±1.2 kg	3A0506
mHP11	T5, 115 VAC	0,15 A	20°C to +50°C	±1.2 kg	3A0509

TECHNICAL SPECIFICATIONS	
Marking:	😥 II 2G Ex e mb IIC T5 Gb
Certificate:	EU-Type Examination Certificate
Operating conditions:	Indoor / Outdoor
Housing:	Black Polycarbonate
Ingress protection:	IP54
Cable entries:	1xM20x1,5 Plastic cable gland





ACOUSTIC SIGNALLING DEVICES

ZONES 1, 2 (gas) & 21, 22 (dust)

SD150-1 Sounder in GRP, certified for use in explosive atmosphere, zone 1 & 2 for gas and zone 21 & 22 for dust. It is dedicated for Oil & Gas, chemical, petrochemical, pharmacy industries, marine and offshore applications.

It's designed for corrosive environnements and hazardous area.

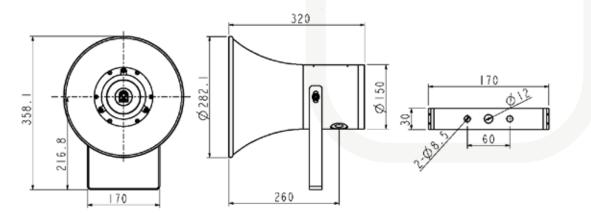
This sounder, according to user control system, can be set with one tone among 59 prerecorded tones.

It is possible to control the sounder via a telephone line.



	ITEM REFERENCES	
Designation:	Voltage:	Item No.:
SD 150-1 12-48 VDC	1248V DC	3C0501
SD 150-1 100-240 VAC	100240V AC (50/60hz)	3C0503

TECHNICAL SPECIFICATIONS		
Marking:	(1) 2G Ex d IIC T4~T6 Gb (1) 2D Ex tb IIIC T135°C~T85°C IP66	
Certificate:	EU-Type Examination Certificate	
Housing:	ENCLOSURE: Glass-Reinforced Polyester (GRP). BRACKET: Stainless Steel 316L	
Housing colour:	Standard: Red (RAL 3001) On request: Black (RAL 9004) Yellow (RAL 1018) Blue (RAL 5005)	
Operating temperature:	-40°C to +55°C (T6) / -40°C to +60°C (T5) / -40°C to +70°C (T4)	
Ambient humidity:	Until 95%	
Consumption:	Adjustable from 5 to 25 W (factory setting 20W)	
Noise level:	Until 115 dB at 1 m	
Current consumption:	0.5 to 1 A	
Weight:	5,4 kg	
Ingress protection:	IP66/67	
Cable entries:	2xM20x1,5 holes	



SD125-1 SOUNDER - STAINLESS STEEL

Zones 1, 2, 21, 22

ACOUSTIC SIGNALLING DEVICES

ZONES 1, 2 (gas) & 21, 22 (dust)

phere, zone 1 & 2 for ga Gas, chemical, petroche applications. It's designed for corrosi This sounder, accordin among 59 prerecorded

SD125-1 Sounder in stainless steel, certified for use in explosive atmosphere, zone 1 & 2 for gas and zone 21 & 22 for dust. It is dedicated for Oil & Gas, chemical, petrochemical, pharmacy industries, marine and offshore applications.

It's designed for corrosive environnements and hazardous area.

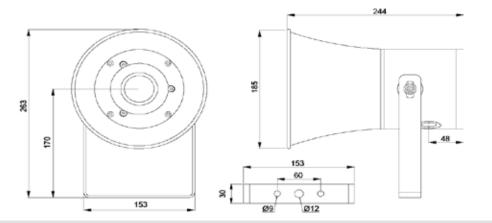
This sounder, according to user control system, can be set with one tone among 59 prerecorded tones.

It is possible to control the sounder via a telephone line.



	ITEM REFERENCES	
Designation:	Voltage:	Item No.:
SD 125-1 12-48 VDC	1248V DC	3C0504
SD 125-1 100-240 VAC	100240V AC (50/60hz)	3C0506

	TECHNICAL SPECIFICATIONS	
Marking:	K II 2G Ex d IIC T4~T6 Gb II 2D Ex tb IIIC T135°C~T85°C IP66	
Certificate:	EU-Type Examination Certificate	
Housing:	ENCLOSURE & BRACKET: Stainless Steel 316L	
Housing colour:	Standard: Red (RAL 3001) On request: Black (RAL 9004) Yellow (RAL 1018) Blue (RAL 5005)	
Operating temperature:	-40°C to +55°C (T6) / -40°C to +60°C (T5) / -40°C to +70°C (T4)	
Ambient humidity:	Until 95%	
Consumption:	Adjustable from 5 to 25 W (factory setting 20W)	
Noise level:	Until 115 dB at 1 m	
Current consumption:	0.5 to 1 A	
Weight:	6,2 kg	
Ingress protection:	IP66/67	
Cable entries:	2xM20x1,5 holes	



ACOUSTIC SIGNALLING DEVICES

ZONES 1, 2 (gas) & 21, 22 (dust)

ETH20MD audible warning devices are for use in open environments with a high background noise, where there is a potential explosive atmosphere. They are equipped with a electronic circuit with 32 tones and increased sound power, selectable using a deep-switch.



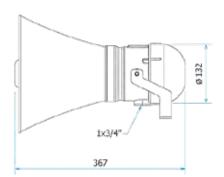
The acoustic transducer has a impedence of 16 Ω and a frequency 2 KHz. The mounting bracket is made of ST. ST. 316L.

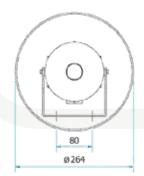
The body of the horn has to be taken into consideration when placing it. It has to be floating, to make room for the cable gland.



		ITEM REFERENCES		
Designation:	Voltage:	Working current:	Weight:	Item No.:
ETH20MD101	12 - 24 V AC/DC	0,10-0,12 A	3,10 kg	3B0201
ETH20MD103	110 V AC	0,02 A	3,25 kg	3B0202
ETH20MD104	230 V AC	0,012 A	3,25 kg	3B0203

	TECHNICAL SPECIFICATIONS
Marking:	II 2G Ex d IIC or IIB+H ₂ T3 or T4 Gb II 2D Ex tb IIIC T150°C or T130°C Db
Certificate:	EU-Type Examination Certificate
Operating temperature:	-50°C to +60°C
Body and cover:	Low copper aluminium alloy. Epoxy coating RAL 7000
Speaker horn:	Anodized aluminium
Gasket:	Acid/hidrocarbon resistant silicone
Bolt and screws:	ST. ST. A2
Noise level:	113 dB
Acoustic frequency:	340/2000 Hz
Power consumption:	10 W
Frequency:	50/60 Hz
Driver impedance:	16 Ω
Operating mode:	Continuous
Ingress protection:	IP66
Cable entries:	1x3/4"NPT (cable gland not included)





EXPLOSION-PROOF SIGNALLING HOOTER DGH21

Zones 1, 2

ACOUSTIC SIGNALLING DEVICES





The dGH21/dRGH21 Signalling Hooter was designed for warning, calling and indicating purposes in potentially explosive areas of group II and and for rough ambient conditions.

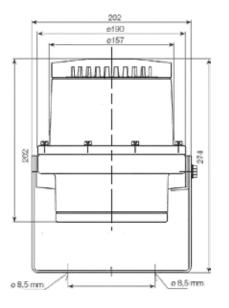
The signalling hooter produces a sound level of approx. 105 dB(A) at 1 m distance. The characteristic hooting sound clearly stands out from any ambient sound of higher frequency.



The hooter is available for all common supply voltages. The dRGH21 version comprises a call current relay and issues the signals in the pulse rate of the incoming telephone call.

		ITEM REFERENCES		
Designation:	Operating range:	Current consumption:	Temperature range:	Item No.:
dGH21	230 VAC	0,07 A		3B0101
dGH21	24 VDC	0,3 A	T5) -20°C to +75°C	3B0102
dGH21	110 VDC	0,08 A	T6) -20°C to +70°C	3B0103
dGH21	120 VAC 60 Hz	0,15 A		3B0104

TECHNICAL SPECIFICATIONS		
Marking:	😥 II 2G Ex de IIC T6/T5 Gb	
Certificate:	EU-Type Examination Certificate	
Operating conditions:	Indoor / Outdoor	
Housing:	GRP	
Weight:	Approx. 5,5 kg	
Ingress protection:	IP66	
Cable entries:	1xM20x1,5 Plastic cable gland 1xM20x1,5 Plastic plug	



Zones 1, 2

ACOUSTIC SIGNALLING DEVICES

ZONES 1, 2 (gas)



The mHP 12 Ex Signalling Hooter is designed for warning purposes in potentially explosive areas of zones 1 and 2.

The hooter is available with the common supply voltages and produces a sound level of approx. 108 dB(A).

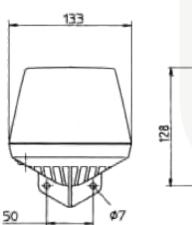
The device is driven by a powerful, non-polarized electromagnet with an adjustable tappet that hits the membrane 100 to 120 times per second.

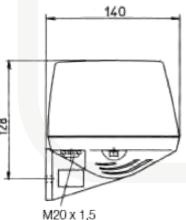
Volume: approx. 108 dB(A).



ITEM REFERENCES				
Designation:	Operating range:	Current consumption:	Temperature range:	Item No.:
mHP12	T4, 230 VAC	0,07 A	-20°C to +70°C	3A0801
mHP12	T4, 24 VDC	0,3 A	-20°C to +70°C	3A0805

TECHNICAL SPECIFICATIONS		
Marking:	😥 II 2G Ex e mb II T4 Gb	
Certificate:	EU-Type Examination Certificate	
Operating conditions:	Indoor / Outdoor	
Housing:	Polycarbonate (Black)	
Weight:	Approx. 2 kg	
Ingress protection:	IP54	
Cable entries:	1xM20x1,5 plastic cable gland	





Zones 1, 2

ACOUSTIC SIGNALLING DEVICES

ZONES 1, 2 (gas)



The signalling bell dGW21 was designed to warn, call and signal in areas with explosive atmospheres in group II and rough ambient conditions. The protection type II 2G Ex de IIC T6 allows the signalling bell to be used without restriction in all ex-areas classified 1 and 2.

The signalling bell produces a sound volume of approx. 105dB(A) at 1m distance.

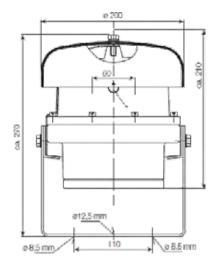
The emphasis of the ringing lies at approx. 1000 Hz, as a result of which the signal stands out clearly against lower-frequency ambient noises. The bell is available for all usual supply voltages.

The version dRGW 21 emits the signals in time with the connected telephone call.



	ITEM REFERENCES	
Designation:	Operating range:	Item No.:
dGW 21 black	12 VDC	3E0101
dGW 21 black	24VDC	3E0102
dGW 21 black	110 VAC	3E0103
dGW 21 black	110 VDC	3E0104
dGW 21 black	230 VAC	3E0105
dGW 21 black	240 VAC 60 Hz	3E0106
dGW 21 red	12 VDC	3E0107
dGW 21 red	24 VDC	3E0108
dGW 21 red	110 VAC	3E0109
dGW 21 red	110 VDC	3E0110
dGW 21 red	230 VAC	3E0111

TECHNICAL SPECIFICATIONS		
Marking: 😣 II 2G Ex de IIC T6 Gb		
Certificate:	EU-Type Examination Certificate	
Operating conditions:	Indoor / Outdoor	
Ingress protection:	IP66	
Weight:	Approx. 5,5 kg	
Operating temperature:	-20°C to +40°C	
Operating mode:	Continuous	
Cable entries:	1xM20x1,5 plastic cable gland	



Zones 0, 1, 2, 20, 21, 22

ACOUSTIC SIGNALLING DEVICES

ZONES 0, 1, 2 (gas) & 20, 21, 22 (dust)



The IS-S-02 Intrinsically Safe Sounder is ATEX and IECEx certified, and is approved to be installed in Groups I (Mining) and Group II (above ground), Zones 0, 1 or 2 with gas groups IIA, IIB, IIC and Zones 20, 21 and 22 for dust groups IIIC and carries a temperature classification of T6.

The sounder unit incorporates a 2 stage alarm option and has a total of 32 selectable tones, selectable via a dip switch on the PCB and produces up to 105dB at 1m.

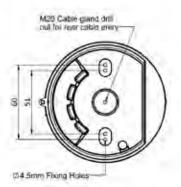
EU-Type Examination Certificate

This unit must be used in conjunction with an approved Zener Barrier or Galvanic Isolator.

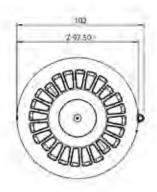
ITEM REFERENCES				
Designation:	Voltage:	Current:	Tones:	Item No.:
IS-S-02	24 V DC	33 mA	32	3C0901
ZENER Z728	1 Stage			3C0901A
KFD0-SD2-Ex2.1045	2 Stages			3C0901B

TECHNICAL SPECIFICATIONS IS-S Series

Marking:	I MI Ex ia I Ma II 1G Ex ia IIC T6 Ga II 1D Ex ia IIIC T85°C Da
Certificate:	EU-Type Examination Certificate
Material:	Flame Retardant Polycarbonate UL94 V2
Colour:	RED
Sounder:	2 Stage alarm with 32 Selectable tones
Power rating:	0.66 W via a suitable barrier
Sound output:	Up to 105 dB at 1m (Tone 18)
Ingress protection:	IP66
Weight:	0,33 kg
Dimensions:	104 x 97.5 mm
Operating temperature:	-40°C to +55°C
Humidity:	>90% at 20°C
Connection terminals:	0.55mm ² up to 2.5mm ²
Power supply:	The unit must be powered via an approved Zener Barrier or Galvanic Isolator whose characteristics do not exceed U _o : 28v, I _o : 93mA, P _o : 660mW, C _i : 0, L _i : 0. The minimum value of U _o should not drop below 23.6v and the minimum value of Io should not drop below 50mA.
Cable entries:	3xM20x1,5 (cable glands not included)







IS-S-02 INTRINSICALLY SAFE SOUNDER Zones 0, 1, 2, 20, 21, 22

TECHNICAL SPECIFICATIONS Z728		
Marking:	(M1) [Ex ia Ma] I (II) [Ex ia Ga] IIC (II) [Ex ia Da] IIIC	
Certificate:	EU-Type Examination Certificate	
Nominal resistance:	D300 Ω	
Series resistance:	max. 327 Ω	
Fuse rating:	50 mA	
Working voltage - Supply loop:	max. 26.9 V	
Ambient temperature:	-20°C 60 °C	
Mechanical specifications		
Degree of protection:	IP20	
Connection:	Screw terminals	
Weight:	approx. 150 g	
Dimensions:	12,5 x 115 x 116 mm	
Mounting:	On 35 mm DIN mounting rail acc. to EN 60715:2001	
Data for application in connection with hazardous areas		
Voltage:	U ₂₈ V	
Current:	۱ _° 93 mA	
Power:	P _e 650 mW	
Input maximum safe voltage:	U _m 250 V	

TECHNICAL SPECIFICATIONS KFDO-SD2-Ex2.1045		
Marking:	I (M1) [Ex ia Ma] I II (1)G [Ex ia Ga] IIC II (1)D [Ex ia Da] IIIC	
Certificate:	EU-Type Examination Certificate	
Signal type:	Digital Output	
Safety Integrity Level (SIL):	SIL 3	
Supply rated voltage:	U _r 20 35 V DC loop powered	
Supply power dissipation:	< 1.05 W (≤ 30 V) per channel	
Ambient temperature:	-20°C 60 °C	
Mechanical specifications		
Degree of protection:	IP20	
Connection:	Screw terminals	
Weight:	approx. 100 g	
Dimensions:	20 x 107 x 115 mm	
Mounting:	On 35 mm DIN mounting rail acc. to EN 60715:2001	
Data for application in connection with hazardous areas		
Voltage:	U _° 25.2 V	
Current:	۱ _° 93 mA	
Power:	P _o 590 mW	
Input maximum safe voltage:	U _m 250 V (Attention! The rated voltage can be lower)	

ACOUSTIC SIGNALLING DEVICES

ZONES 1, 2 (gas) & 21, 22 (dust)



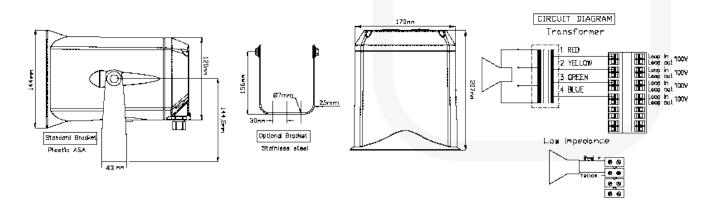
Explosion-proof plastic horn speaker. This versatile model can be ordered with different transformers for more tappings and power ratings.

DSP-15 EExmN(T) is light and has M20 entries in the back lid for easy cable mounting. Extra termination space for loop in loop out purpose as standard.



ITEM REFERENCES		
Designation:	Item No.:	
DSP-15EExmN(T)	3D0401	

TECHNICAL SPECIFICATIONS			
Marking:	II 2G Ex d e mb IIB+H2 T4 Gb II 2G Ex d e mb IIC T4 Gb II 2D Ex tb IIIC T105°		
Certificate:	EU-Type Examination Certificate		
Housing:	Anti-static PA / Black		
Weight:	2,2 kg		
Operating temperature:	-50°C to +60°C		
Ingress protection:	IP66/67		
Rated voltage:	100V		
Rated / max. power:	25W / 30W		
	IIB	IIC	
Sound pressure level:	106 dB - SPL 1W/1m	104 dB - SPL 1W/1m	
Effective freq. range:	380-8000 Hz	450-7000 Hz	
Dispersion:	1 kHz -6dB 120° 4 kHz -6dB 37°	1 kHz -6dB 105° 4 kHz -6dB 35°	
Cable entries:	1xM20x1.5 plastic cable gland 1xM20x1.5 plastic plug		



BA-56EEXEN(T) CEILING SPEAKER

Zones 1, 2

Full catalogue available on our website: www.inpratex.com





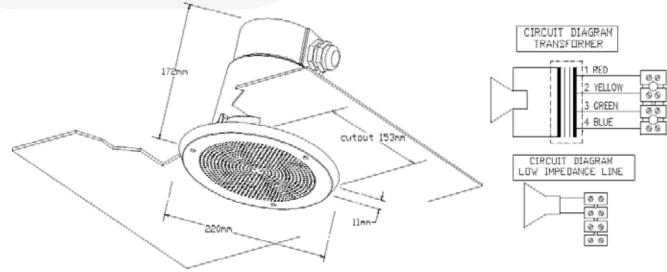
Ex certified ceiling speaker for flush mounting.

An IP-rating of 54, makes the loudspeaker very flexible regarding placement and the sound characteristics ensure high quality sound in any situation.



ITEM REFERENCES	
Designation:	Item No.:
BA-56EExeN(T), 100 V	3D0301
BA-56EExeN(T)x2, 100 V	3D0302

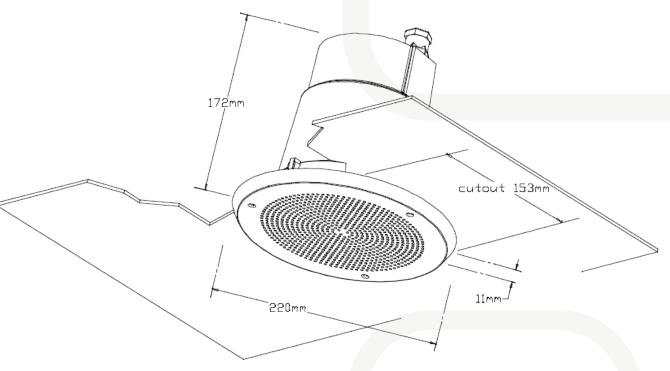
TECHNICAL SPECIFICATIONS BA-56EExeN(T)		
Marking:	😥 II 2G Ex de IIB+H2 T6 Gb	
Certificate:	EU-Type Examination Certificate	
Housing:	Aluminium RAL 9010	
Ingress protection:	IP54	
Weight:	3 kg	
Operating temperature:	-20°C to +50°C	
Max. power:	6W	
Sound pressure level:	88 db - SPL 1W/1m	
SPL rated power:	95 db	
Effective freq. range:	160-15000Hz	
Dispersion:	(-6dB) 1kHz / 4 kHz: 113° / 25°	
100V transformer primary nominal tappings:	1:2=6W / 2:3=3W / 3:4=1,5W / 1:3=1W / 2:4=0,5W / 1:4=0,3W	
Cable entries:	1xM20x1,5 cable gland	

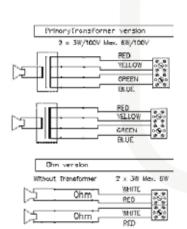


BA-56EEXEN(T) CEILING SPEAKER Zones 1, 2,

SIGNALLING 🕸 🛇

	TECHNICAL SPECIFICATIONS BA-56EExeN(T)x2		
Marking:	😥 II 2G Ex de IIB+H2 T6 Gb		
Certificate:	EU-Type Examination Certificate		
Housing:	Aluminium RAL 9010		
Ingress protection:	IP54		
Weight:	3,1 kg		
Operating temperature:	-20°C to +50°C		
Max. power:	2x3W		
Sound pressure level:	83 db - SPL 1W/1m		
SPL rated power:	87 db		
Effective freq. range:	190-15000Hz		
Dispersion:	(-6dB) 1kHz / 4 kHz: 113° / 40°		
100V transformer primary nominal tappings:	Red:Yellow=3W / Red:Green=1,5W / Red:Blue=0,75W		
Cable entries:	1xM20x1,5 cable gland 1xM20x1,5 plug		





SIGNALLING 🕸 🛇

ACOUSTIC SIGNALLING DEVICES ZONES 1, 2 (gas) & 21, 22 (dust)

The AB1-S3-type ATEX Buzzers stands for alarming, with a penetrating, acoustic signal, to safely indicate possible dangers in potentially explosive areas. The high degree of IP protection and the corrosion-resistant stainless steel housing guarantee a long service life even under aggressive environmental conditions. This buzzer can be used in a variety of ways in potentially explosive areas.

Thanks to its approval as a device, it can be installed directly in the front of a machine without further certification.

It has also been tested in order to be installed in certified control panels of types of protection Ex e, Ex t and Ex d.

A lock nut is included in the scope of delivery.

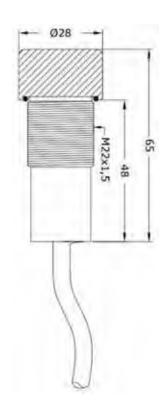
AB1-S3 BUZZER

Zones 1, 2, 21, 22

ITEM REFERENCES				
Designation:	Cable lenght:	Item No.:		
AB1-S3 - 1,5	1,5 m	3D0501		
AB1-S3 - 3	3 m	3D0502		
AB1-S3 - 5	5 m	3D0503		
AB1-S3 - 10	10 m	3D0504		

	TECHNICAL SPECIFICATIONS
Marking:	EX II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T80°C Db
Certificate:	EU-Type Examination Certificate
Operating temperature:	-40°C to +60°C
Operating voltage:	24 VDC
Power consumption:	max. 30 mA
Prefuse:	63 mA
Frequency:	4300 Hz
Volume:	85 db approx / 40 cm
Electrical connection:	2x0.5 mm ² , Ø 4.8 mm. Brown = +24 VDC / Blue = 0 V
Housing:	Stainless steel 1.4305
Sealing:	EPDM
Ingress protection:	IP66 / Head IP30
Mounting hole:	22.0 22.3 mm / M22x1,5
Torque:	8 Nm
Max. wall thickness:	1.0 15.0 mm
Weight:	150 g (1,5 m cable version)









SECONDARY TELEPHONE ALARM AND SIGNAL UNIT TWIN EEXI

ZONES 1, 2 (gas)

using the sliding switch.

Full catalogue available on our website: www.inpratex.com

3 &

SIGNALLING



Zones 1, 2

The TWIN-EExll is specially designed for application in potentially explosive indoor or outdoor industrial areas. It offers two different operating modes that can be selected

As secondary telephone alarm the TWIN EExII is used to draw attention to incoming phone calls, which are indicated with high volume and additionally signalled by the integrated strobe light. Both signals are actuated by the AC ringing voltage.

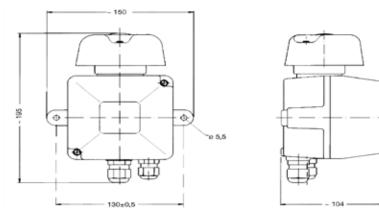
The TWIN-EExll is a compact unit comprising power supply, telephone connection, strobe light, amplifier and loud-speaker. The bottom box is made of seawater-resistant cast aluminium coated with plastic.

The loudspeaker consists of impact and cold-resistant plastic and is permanently mounted to the housing. The strobe light cap made of polycarbonat forms the housing cover.



ITEM REFERENCES				
Model:	Operating range:	Colour:	Item No.:	
TWIN-EExII 5842/1	230VAC 50-60 Hz	Clear	2A2001	
TWIN-EExII 5842/1	230VAC 50-60 Hz	Red	2A2002	
TWIN-EExII 5842/1	230VAC 50-60 Hz	Amber	2A2003	
TWIN-EExII 5842/1	230VAC 50-60 Hz	Green	2A2004	
TWIN-EExII 5842/1	230VAC 50-60 Hz	Blue	2A2005	

TECHNICAL SPECIFICATIONS			
Marking:	😥 II 2G Ex e mb [ib] IIC T6/T5/T4 Gb		
Certificate:	EU-Type Examination Certificate		
Housing:	Die-cast aluminium, cap made of macrolon		
Cover:	Polycarbonate		
Ingress protection:	IP66		
Operating temperature:	-20°C to +40°C		
Telephone connection:	W, Lb 30 VAC 75 VAC /23 Hz 54 Hz / 0 VDC 63 VDC		
Acoustic signalling:	Single-tone call/2-tone call/3-tone call Volume: Approx. 90 dB(A), 1 m distance (Only with 230 V network))		
Optical signalling:	2 flash tubes, ca. 0,9 joule 1 Hz 2 Hz (Only with 230 V network)		
Operating position:	Any (wall or ceiling mounting)		
Weight:	Approx. 1,5 kg		
Cable entries:	1xM20x1.5 cable gland (230 V network) 1xM20x1.5 cable gland (telephone network)		



OPTICAL & ACOUSTIC SIGNALLING ZONES 1, 2 (gas) & 21, 22 (dust)

SIGNALLING 😵 S



This combined product is certified for use in ATEX explosive atmosphere, zone 1 & 2 for gas and zone 21 & 22 for dust. It is dedicated for Oil & Gas, chemical, petrochemical, pharmacy industries, marine and offshore applications.

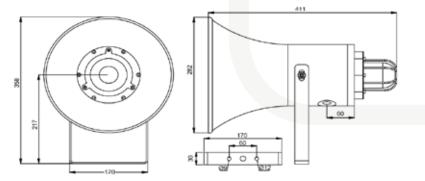
It's designed for corrosive environnements and hazardous area.

This sounder, according to user control system, can be set with one tone among 59 prerecorded tones.



ITEM REFERENCES				
Model:	Power consumption:	Item No.:		
SB 150 12-48 VDC LED 10W Red	12VDC-1100mA / 24VDC-530mA / 48VDC-240 mA	3C0401		
SB 150 12-48 VDC LED 10W Amber	12VDC-1100mA / 24VDC-530mA / 48VDC-240 mA	3C0402		
SB 150 12-48 VDC LED 10W Blue	12VDC-1100mA / 24VDC-530mA / 48VDC-240 mA	3C0403		
SB 150 12-48 VDC LED 10W Green	12VDC-1100mA / 24VDC-530mA / 48VDC-240 mA	3C0404		
SB 150 12-48 VDC LED 10W Clear	12VDC-1100mA / 24VDC-530mA / 48VDC-240 mA	3C0405		
SB 150 100-240 VAC LED 10W Red	110VAC-160mA / 220VAC-80mA	3C0406		
SB 150 100-240 VAC LED 10W Amber	110VAC-160mA / 220VAC-80mA	3C0407		
SB 150 100-240 VAC LED 10W Blue	110VAC-160mA / 220VAC-80mA	3C0408		
SB 150 100-240 VAC LED 10W Green	110VAC-160mA / 220VAC-80mA	3C0409		
SB 150 100-240 VAC LED 10W Clear	110VAC-160mA / 220VAC-80mA	3C0410		

TECHNICAL SPECIFICATIONS			
Marking:	(x) II 2G Ex d IIC T4~T6 Gb II 2D Ex tb IIIC T135°C~T85°C		
Certificate:	EU-Type Examination Certificate		
Housing:	ENCLOSURE: Glass-Reinforced Polyester (GRP) LENS: Tempered borosilicate glass 3.3 BRACKET: Stainless steel 316L		
Housing colour:	Standard: Red (RAL 3001) On request: Black (RAL 9004) Yellow (RAL 1018) Blue (RAL 5005)		
Operating temperature:	-40°C to +55°C (T6) / -40°C to +60°C (T5) / -40°C to +70°C (T4)		
Light intensity:	312 Cd		
Consumption:	Adjustable from 5 to 25W (factory setting 20W)		
Noise level:	Until 115 dB at 1m		
Current consumption:	0,5 to 1 A		
Weight:	8 kg		
Ingress protection:	IP66/67		
Cable entries:	2xM20x1,5 holes		



SB125-1 EX SOUNDER / BEACON - STAINLESS STEEL

Zones 1, 2, 21, 22

OPTICAL & ACOUSTIC SIGNALLING ZONES 1, 2 (gas) & 21, 22 (dust)



This combined product is certified for use in ATEX explosive atmosphere, zone 1 & 2 for gas and zone 21 & 22 for dust. It is dedicated for Oil & Gas, chemical, petrochemical, pharmacy industries, marine and offshore applications.

It's designed for corrosive environnements and hazardous area.

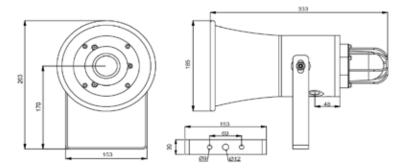
This sounder, according to user control system, can be set with one tone among 59 prerecorded tones.



EU-Type Examination Certificate

ITEM REFERENCES				
Model:	Item No.:			
SB 125 12-48 VDC LED 10W Red	12VDC-1100mA / 24VDC-530mA / 48VDC-240 mA	3C0411		
SB 125 12-48 VDC LED 10W Amber	12VDC-1100mA / 24VDC-530mA / 48VDC-240 mA	3C0412		
SB 125 12-48 VDC LED 10W Blue	12VDC-1100mA / 24VDC-530mA / 48VDC-240 mA	3C0413		
SB 125 12-48 VDC LED 10W Green	12VDC-1100mA / 24VDC-530mA / 48VDC-240 mA	3C0414		
SB 125 12-48 VDC LED 10W Clear	12VDC-1100mA / 24VDC-530mA / 48VDC-240 mA	3C0415		
SB 125 100-240 VAC LED 10W Red	110VAC-160mA / 220VAC-80mA	3C0416		
SB 125 100-240 VAC LED 10W Amber	110VAC-160mA / 220VAC-80mA	3C0417		
SB 125 100-240 VAC LED 10W Blue	110VAC-160mA / 220VAC-80mA	3C0418		
SB 125 100-240 VAC LED 10W Green	110VAC <mark>-160m</mark> A / 220VAC-80mA	3C0419		
SB 125 100-240 VAC LED 10W Clear	110VAC-160mA / 220VAC-80mA	3C0420		

TECHNICAL SPECIFICATIONS			
Marking:	EX II 2G Ex d IIC T4~T6 Gb II 2D Ex tb IIIC T135°C~T85°C		
Certificate:	EU-Type Examination Certificate		
Housing:	ENCLOSURE & BRACKET: Stainless steel 316 LENS: Tempered borosilicate glass 3.3		
Housing colour:	Standard: Red (RAL 3001) On request: Black (RAL 9004) Yellow (RAL 1018) Blue (RAL 5005)		
Operating temperature:	-40°C to +55°C (T6) / -40°C to +60°C (T5) / -40°C to +70°C (T4)		
Light intensity:	312 Cd		
Consumption:	Adjustable from 5 to 25W (factory setting 20W)		
Noise level:	Until 115 dB at 1m		
Current consumption:	0,5 to 1 A		
Weight:	8 kg		
Ingress protection:	IP66/67		
Cable entries:	2xM20x1,5 holes		



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OPTICAL & ACOUSTIC SIGNALLING ZONES 1, 2 (gas) & 21, 22 (dust)



Optical-acoustic signalling device specially designed to be installed in hazardous areas.

Ultra-bright LED lamp, low power consumption and long service life.

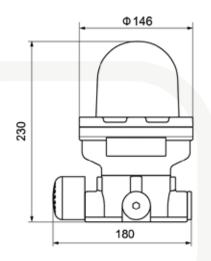
OPTIONAL: Operating voltage 24 V AC

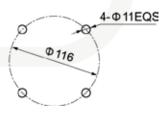


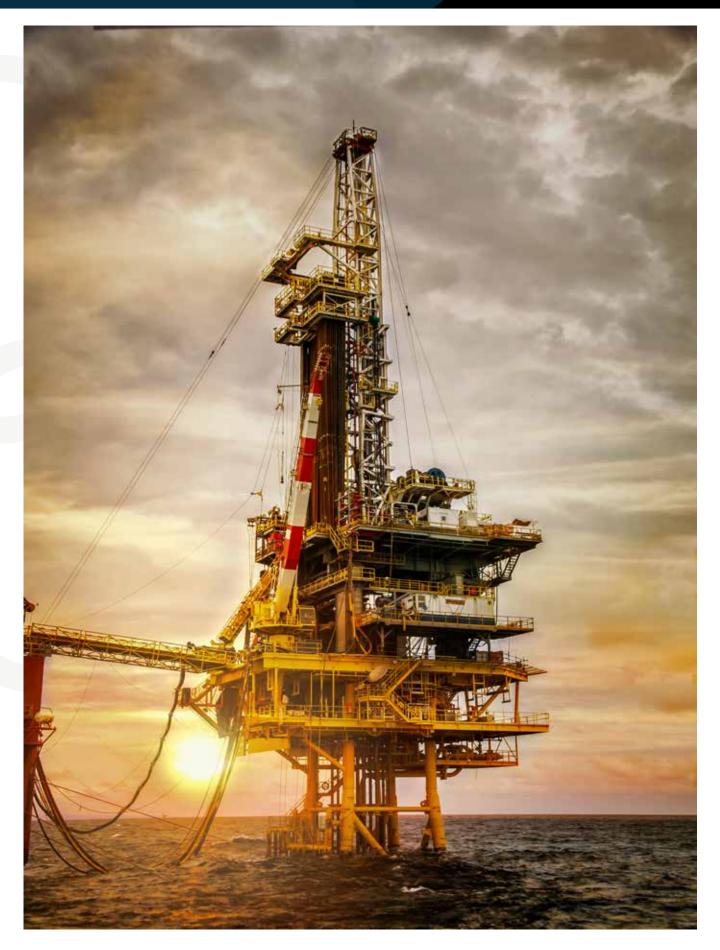


ITEM REFERENCES			
Model:	Lamp colour:	Rated voltage:	Item No.:
BBJ81-R 220	Red	220 - 240V AC 50/60Hz	3C0601
BBJ81-B 220	Blue	220 - 240V AC 50/60Hz	3C0602
BBJ81-Y 220	Yellow	220 - 240V AC 50/60Hz	3C0603
BBJ81-G 220	Green	220 - 240V AC 50/60Hz	3C0604
BBJ81-R 24	Red	24 V DC	3C0605
BBJ81-B 24	Blue	24 V DC	3C0606
BBJ81-Y 24	Yellow	24 V DC	3C0607
BBJ81-G 24	Green	24 V DC	3C0608

TECHNICAL SPECIFICATIONS		
Marking:	IL 2G Ex d ib IIC T6 Gb	
Certificate:	EU-Type Examination Certificate	
Housing:	Copper-free aluminium, yellow (RAL 1021)	
Transparent cover:	Toughened glass, stands 4J impact	
Exposed fastener:	Stainless steel	
Weight:	2,60 kg	
Lamp:	LED	
Power:	5 W	
Flash frequency:	150 times/min	
Sound intensity:	100~120 (R=1 m)	
Operating temperature:	-40°C to +55°C	
Ingress protection:	IP66	
Earthing protection:	M5 (internal & external earth bolts)	
Terminals:	3 terminals 1,5~2,5 mm ² (L+N+PE)	
Cable entries:	3xM25x1,5 (plugs)	













4 - CONTROL & CONNECTION EQUIPMENT

Connection and Control equipment suitable for installation in areas with explosion risk.

Junction and distribution boxes with enclosures manufactured in GRP (Glass Reinforced Polyester), Aluminium or Stainless Steel, fully configurable by the customer in terms of number of terminals and cable entries. Equipped for installations with armoured or unarmoured cable.

ATEX switches and disconnectors with aluminium or GRP housings, suitable for use in petrochemicals, offshore platforms, Oil&Gas, refineries, etc.

Configurable control stations: start-stop, emergency mushrooms, pushbuttons, Indicator lights, etc...

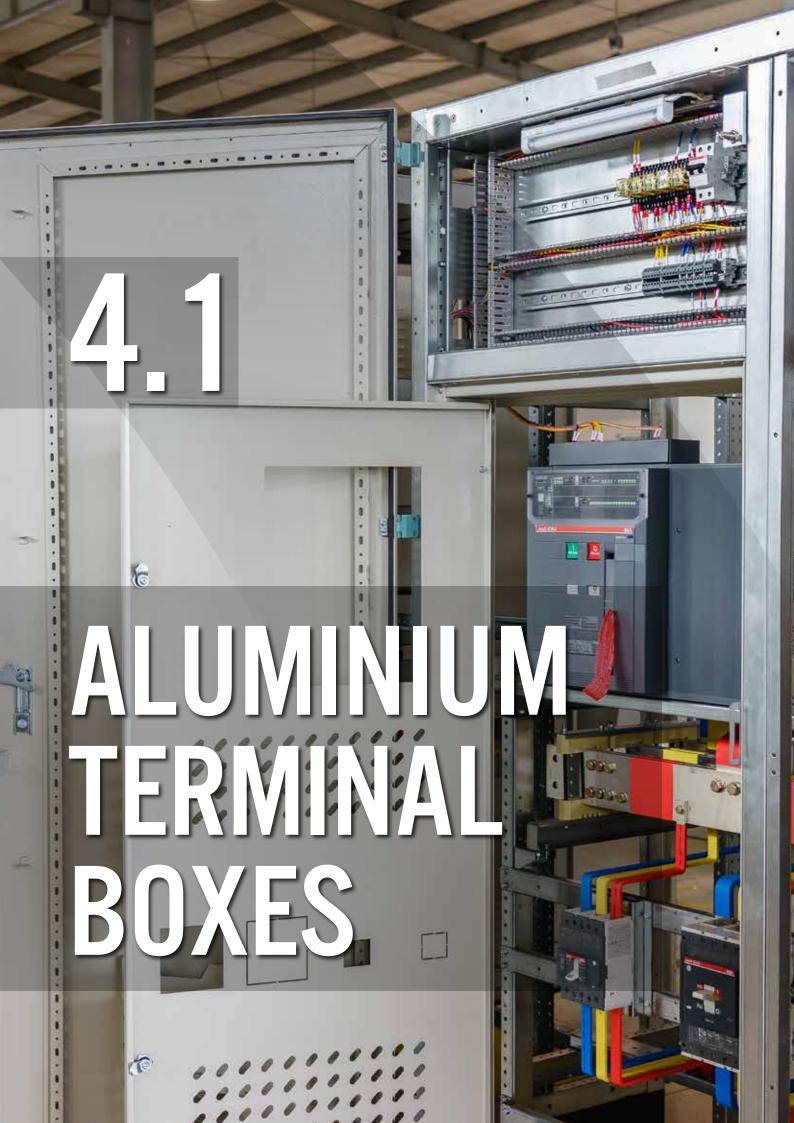
Plug and socket outlets and compact connectors, manufactured in high performance and completely waterproof polyamide, with built-in cutting power, suitable for use in Zones 1, 2 (gas) and 21, 22 (dust).

ATEX limit switches with a wide range of adaptability and installation options.

Earthing & Grounding devices.

4.1 - ALUMINIUM TERMINAL BOXES	
4.2 - GRP TERMINAL BOXES	164
4.3 - STAINLESS STEEL TERMINAL BOXES	190
4.4 - SWITCHES	194
4.5 - CONTROL STATIONS	204
4.6 - PLUG & SOCKETS	240
<u>4.7 - LIMIT SWITCHES</u>	254
4.8 - EARTHING & GROUNDING DEVICES	268

Our product ranges are constantly updated on our website: www.inpratex.com



ATEX JUNCTION BOXES

Full catalogue available on our website: www.inpratex.com

ZONES 1, 2 (gas) & 21, 22 (dust)



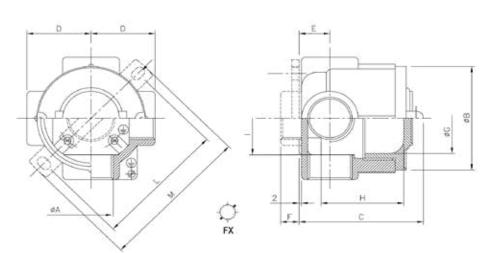
Explosion-proof junction boxes ideal for routing and interconnecting the wires at the intersection of the conduits.

Supplied with rough surface or outside painted according to customer specifications.



-							ITEM REF	ERENCES					
	Designation:	External dimensions (mm):				Internal dimensions (mm):			Mounting brackets (mm):		Weight:	Item No.:	
1		ØB	С	D	E	ØF	G	н	I	ØL	м		
	SFX 16N MM 2-8	90	78	50	20	8	70	49	70	108	126	440 gr	5A0501
	SFX 26N MM 2-8	90	78	50	20	8	70	49	70	108	126	440 gr	5A0502

TECHNICAL SPECIFICATIONS						
Marking:	II 2G Ex d IIC T6 Gb II 2D Ex tb IIIC T85°C Db					
Certificate:	EU-Type Examination Certificate					
Housing:	Aluminum light alloy (Aluminox on request)					
Operating temperature:	-20°C to +40°C					
Terminals:	8 Terminals 2,5mm ²					
Ingress protection:	IP66/67					
	Cable entries:					
SFX 16N MM	2-8 SFX 26N MM 2-8					
1/2" NPT (Ø	A) 3/4" NPT (ØA)					



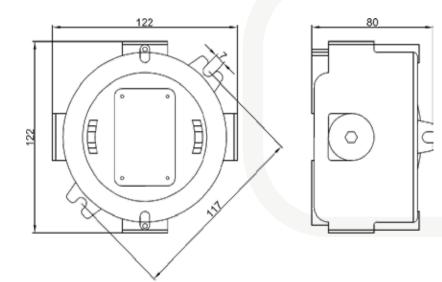
BHD51 SERIES EXPLOSION-PROOF JUNCTION BOXES

Zones 1, 2, 21, 22

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Designation:	Weight:	Item No.:			
BHD51-D/M20x1,5	0,70 kg	5A0101			
BHD51-D/M25x1,5	0,70 kg	5A0102			
TECHNICAL SPECIFICATIONS					

II 2G Ex d IIC T6 Gb II 2D Ex t IIIC T80°C Db IP66
EU-Type Examination Certificate
Yellow (RAL 1021)
-60°C to +55°C
Max. 500 VAC
20A
6 terminals 2,5mm ²
IP66



ALUMINIUM JUNCTION BOX - 2 ENTRIES / 2 TERMINALS

Zones 1, 2, 21, 22

ATEX JUNCTION BOXES

ZONES 1, 2 (gas) & 21, 22 (dust)

Ex e aluminium junction box for hazardous areas.

The box includes 2 cable entries and is equipped with 2x2.5mm² + 1 earth terminal.



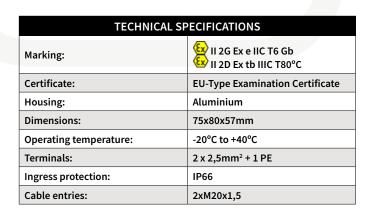


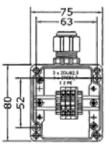


ITEM REFERENCES				
Designation:	Cable glands:	Item No.:		
A21-E2-00806+2T2,5+2M20	Without cable glands	5A0806		
A21-E1-00806+2T2,5+2PM20	2 plastic cable glands (4-13 mm)	5A0807		
A21-E1-00806+2T2,5+1PM20+1PAM20	1 plastic cable gland (4-13 mm) + 1 brass cable gland (9-15,5 mm)	5A0808		
A21-E1-00806+2T2,5+1PM20+1PANM20	1 plastic cable glands (4-13 mm) + 1 nickel plated brass cable gland (9-15,5 mm)	5A0809		
A21-E1-00806+2T2,5+2PAM20	2 brass cable glands (9-15,5 mm)	5A0810		
A21-E1-00806+2T2,5+2PANM20	2 nickel plated brass cable glands (9-15,5 mm)	5A0811		



Side B: 1 tapped hole M20x1.5









Side A: 1 plastic cable gland M20x1,5 bk (4-13mm)

ALUMINIUM JUNCTION BOX - 6 ENTRIES / 18 TERMINALS

Zones 1, 2, 21, 22

ATEX JUNCTION BOXES

ZONES 1, 2 (gas) & 21, 22 (dust)



Ex e aluminium junction box for hazardous areas.

Manufactured in aluminum.

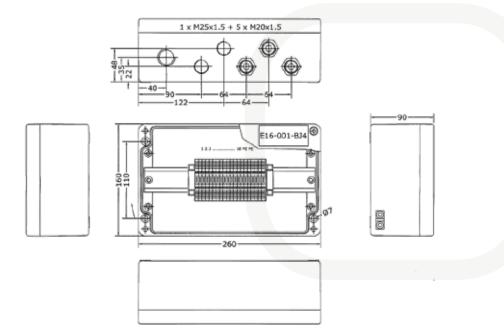
The box has 1xM25 and 5xM20 cable entries, and is equipped with $18\ 2.5mm^2$ terminals + 2 ground terminals.





ITEM REFERENCES	
Designation:	Item No.:
A21-E2-02609+18T2,5+1M25+5M20	5A0812

TECHNICAL SPECIFICATIONS				
Marking:	II 2G Ex e IIC T6 Gb II 2D Ex tb IIIC T80°C			
Certificate:	EU-Type Examination Certificate			
Housing:	Aluminium Optional tag white background and black text (80x30 mm)			
Dimensions:	260x160x90mm			
Operating temperature:	-20°C to +40°C			
Terminals:	18 x 2,5mm ² + 2 PE			
Ingress protection:	IP65			
Cable entries:	1x M25x1,5 5x M20x1,5			



ALUMINIUM JUNCTION BOX - 10 ENTRIES / 36 TERMINALS

Zones 1, 2, 21, 22

ATEX JUNCTION BOXES

ZONES 1, 2 (gas) & 21, 22 (dust)



Ex e aluminium junction box for hazardous areas.

Manufactured in aluminum.

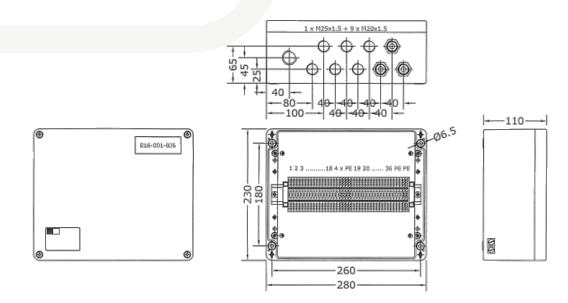
The box has $1 \times M25$ and $9 \times M20$ cable entries, and is equipped with $36 \ 2.5 mm^2$ terminals + 6 ground terminals.





ITEM REFERENCES	
Designation:	Item No.:
A21-E2-02811+36T2,5+1M25+9M20	5A0813

	TECHNICAL SPECIFICATIONS
Marking:	II 2G Ex e IIC T6 Gb II 2D Ex tb IIIC T80°C
Certificate:	EU-Type Examination Certificate
Housing:	Aluminium Optional tag white background and black text (80x30 mm)
Dimensions:	280x230x110mm
Operating temperature:	-20°C to +40°C
Terminals:	36 x 2,5mm ² + 6 PE
Ingress protection:	IP65
Cable entries:	1x M25x1,5 9x M20x1,5



EXIALUMINIUM JUNCTION BOX - 6 ENTRIES / 21 TERMINALS

Zones 1, 2, 21, 22

ATEX JUNCTION BOXES

ZONES 1, 2 (gas) & 21, 22 (dust)

CONTROL & CONNECTION EQUIPMENT 🛞 🛧



Ex i aluminium junction box for hazardous areas.

Manufactured in aluminum.

The box has 1xM25 and 5xM20 cable entries, and is equipped with 21 2.5mm² blue terminals + 2 ground terminals.

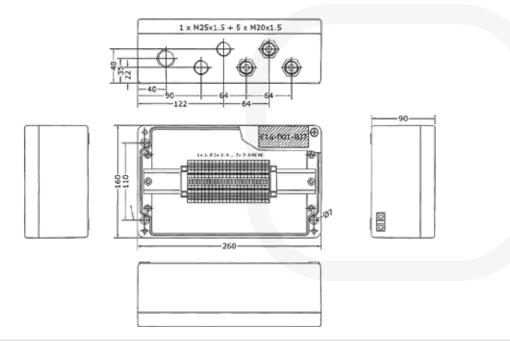




Full catalogue available on our website: www.inpratex.com

ITEM REFERENCES	
Designation:	Item No.:
A21-I2-02609+21T2,5+1M25+5M20	5A0814

TECHNICAL SPECIFICATIONS					
Marking:	₩ II 2(1)G Ex e [ia Ga] IIC T6 Gb W II 2(1)D Ex tb [ia Da] IIIC T80°C				
Certificate:	EU-Type Examination Certificate				
Housing:	Aluminium Optional tag blue background and white text (80x30 mm)				
Dimensions:	260x160x90mm				
Operating temperature:	-20°C a +40°C				
Terminals:	21 x 2,5mm ² + 2 PE				
Ingress protection:	IP65				
Cable entries:	1x M25x1,5 5x M20x1,5				



EXIALUMINIUM JUNCTION BOX - 8 ENTRIES / 21 TERMINALS

Zones 1, 2, 21, 22

ATEX JUNCTION BOXES

ZONES 1, 2 (gas) & 21, 22 (dust)



Ex i aluminium junction box for hazardous areas.

Manufactured in aluminum.

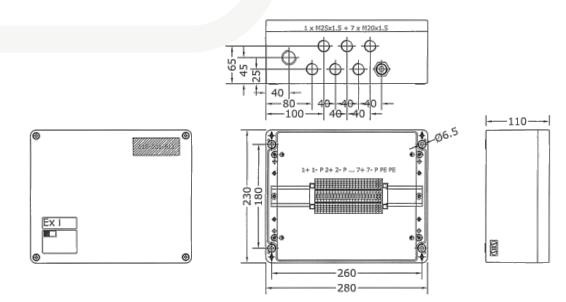
The box has 1xM25 and 7xM20 cable entries, and is equipped with 21 2.5mm² blue terminals + 2 ground terminals.





ITEM REFERENCES	
Designation:	Item No.:
A21-E2-02811+21T2,5+1M25+7M20	5A0815

TECHNICAL SPECIFICATIONS				
Marking:	(Ex e [ia Ga] IIC T6 Gb (Ex II 2(1)D Ex tb [ia Da] IIIC T80°C			
Certificate:	CEU-Type Examination Certificate			
Housing:	Aluminium Optional tag blue background and white text (80x30 mm)			
Dimensions:	280x230x110mm			
Operating temperature:	-20°C to +40°C			
Terminals:	21 x 2,5mm ² + 2 PE			
Ingress protection:	IP65			
Cable entries:	1x M25x1,5 7x M20x1,5			

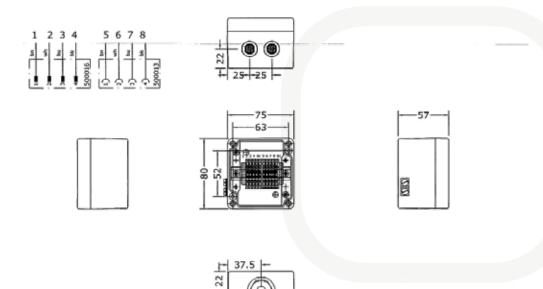


Full catalogue available on our website: www.inpratex.com



	ITEM REFERENCES	
Designation:	Configuration:	Item No.:
A21-I2-00806+10T1,5+1M20+2C	1xM20x1,5 EMC cable gland + 1 Flange plug + 1 Flange socket	5A0817

TECHNICAL SPECIFICATIONS				
Marking:	😥 II 2(1)G Ex ia IIC T6 Gb			
Certificate:	EU-Type Examination Certificate			
Housing:	Aluminium			
Dimensions:	75x80x57mm			
Operating temperature:	-20°C to +40°C			
Terminals:	10 x MPT 1,5S/BU (1 external earth connection)			
Ingress protection:	IP65			
Cable entries:	1xM20x1,5 nickel plated brass EMC cable gland (6-13mm)			
Ex i connectors:	1 Flange plug 4 Poles (4 wires length 0,5 m) (coupler not included) 1 Flange socket 4 Poles (4 wires length 0,5 m) (plug not included)			



CONTROL & CONNECTION EQUIPMENT 😨 🛧

CONFIGURABLE EX-PROOF ALUMINIUM TERMINAL BOXES

Zones 1, 2, 21, 22

ATEX JUNCTION BOXES

ZONES 1, 2 (gas) & 21, 22 (dust)

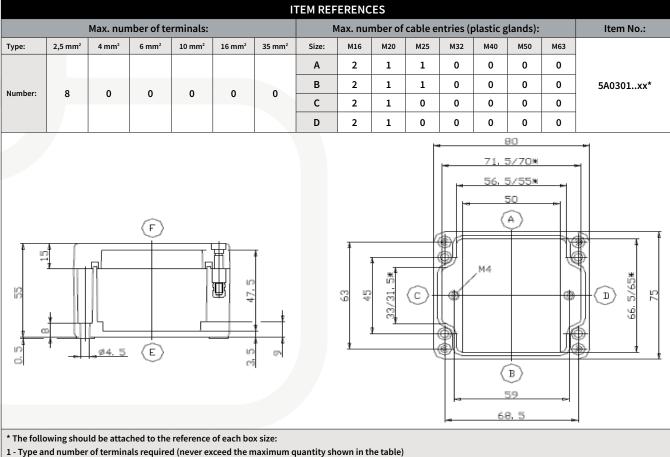
ATEX Zones 1,2,21,22 rated explosion-proof aluminium alloy junction boxes. These enclosures are suitable for those industries where potentially explosive environments exist, e.g. chemical, petrochemical and pharmaceutical industries, Oil&Gas, et...







We don't supply empty "U" certified enclosures. These terminal boxes must be configured with the number of terminals and cable entries.



2 - Size and number of cable entries:

- For unarmoured cable, it may never exceed the maximum quantity shown in the table.

- If armoured cable is used, the number of entries must be defined in each case.

The value 0 indicates that this type of terminal / cable entry size can't be used in this box model

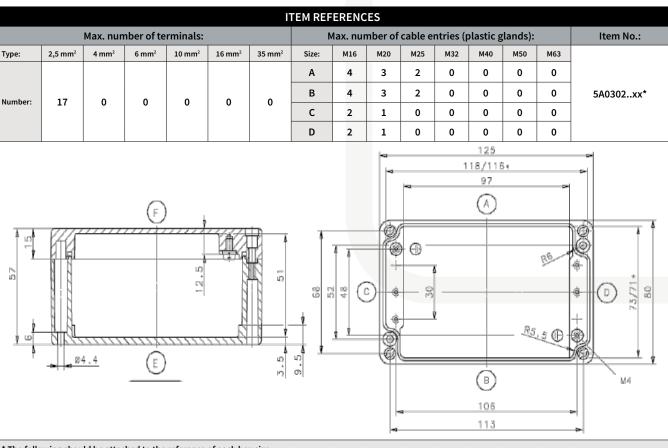
TECHNICAL SPECIFICATIONS

Marking:	LI 2G Ex e II T4/T6 Gb LI 2G Ex ia IIC T6 Gb LI 2D Ex tD A21 IP65 T80°C
Certificate:	EU-Type Examination Certificate
Operating temperature:	-50°C to +60°C
Dimensions:	75x80x57 mm
Ingress protection:	IP65
Weight:	280 g (empty)
Colour:	RAL 7001

4 &

The number of cable entries and the number of terminals is configurable according to the customer's needs. The boxes are supplied finished, with the necessary terminals and with the cable entries already made.

We don't supply empty "U" certified enclosures. These terminal boxes must be configured with the number of terminals and cable entries.



* The following should be attached to the reference of each box size:

1 - Type and number of terminals required (never exceed the maximum quantity shown in the table)

2 - Size and number of cable entries:

- For unarmoured cable, it may never exceed the maximum quantity shown in the table.

- If armoured cable is used, the number of entries must be defined in each case.

The value 0 indicates that this type of terminal / cable entry size can't be used in this box model

TECHNICAL SPECIFICATIONS

Marking:	Ex II 2G Ex e II T4/T6 Gb II 2G Ex ia IIC T6 Gb II 2D Ex tD A21 IP65 T80°C
Certificate:	EU-Type Examination Certificate
Operating temperature:	-50°C to +60°C
Dimensions:	125x80x57 mm
Ingress protection:	IP65
Weight:	435 g (empty)
Colour:	RAL 7001

CONFIGURABLE EX-PROOF ALUMINIUM TERMINAL BOXES

Zones 1, 2, 21, 22

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Full catalogue available on our website: www.inpratex.com
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The number of cable entries and the number of terminals is configurable according to the customer's needs. The boxes are supplied finished, with the necessary terminals and with the cable entries already made.

We don't supply empty "U" certified enclosures. These terminal boxes must be configured with the number of terminals and cable entries.

						ľ	TEM REF	ERENC	ES						
Max. number of terminals:					N	/lax. nur	nber of	cable e	ntries (plastic g	glands):		Item No.:		
Туре:	2,5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²	35 mm ²	Size::	M16	M20	M25	M32	M40	M50	M63	
							A	6	4	4	0	0	0	0	
Number:	27	0	o	0	o	0	В	6	4	4	0	0	0	0	5A0303xx*
Number.	21	Ū	U	Ū			с	2	1	0	0	0	0	0	
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												156			
- 163															
* The following should be attached to the reference of each box size:															

2 - Size and number of cable entries:

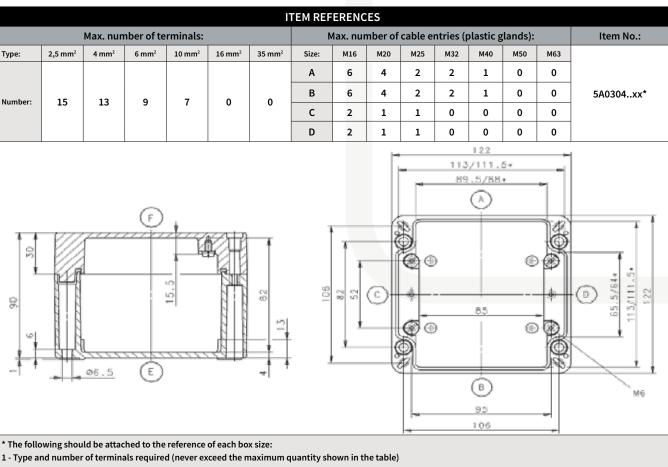
- For unarmoured cable, it may never exceed the maximum quantity shown in the table.

- If armoured cable is used, the number of entries must be defined in each case.

TECHNICAL SPECIFICATIONS				
Marking:	(2) II 2G Ex e II T4/T6 Gb (2) II 2G Ex ia IIC T6 Gb (2) II 2D Ex tD A21 IP65 T80°C			
Certificate:	EU-Type Examination Certificate			
Operating temperature:	-50°C to +60°C			
Dimensions:	175x80x57 mm			
Ingress protection:	IP65			
Weight:	530 g (empty)			
Colour:	RAL 7001			

The number of cable entries and the number of terminals is configurable according to the customer's needs. The boxes are supplied finished, with the necessary terminals and with the cable entries already made.

We don't supply empty "U" certified enclosures. These terminal boxes must be configured with the number of terminals and cable entries.



2 - Size and number of cable entries:

- For unarmoured cable, it may never exceed the maximum quantity shown in the table.

- If armoured cable is used, the number of entries must be defined in each case.

	TECHNICAL SPECIFICATIONS
Marking:	(2) II 2G Ex e II T4/T6 Gb (2) II 2G Ex ia IIC T6 Gb (2) II 2D Ex tD A21 IP65 T80°C
Certificate:	EU-Type Examination Certificate
Operating temperature:	-50°C to +60°C
Dimensions:	122x122x90 mm
Ingress protection:	IP65
Weight:	920 g (empty)
Colour:	RAL 7001

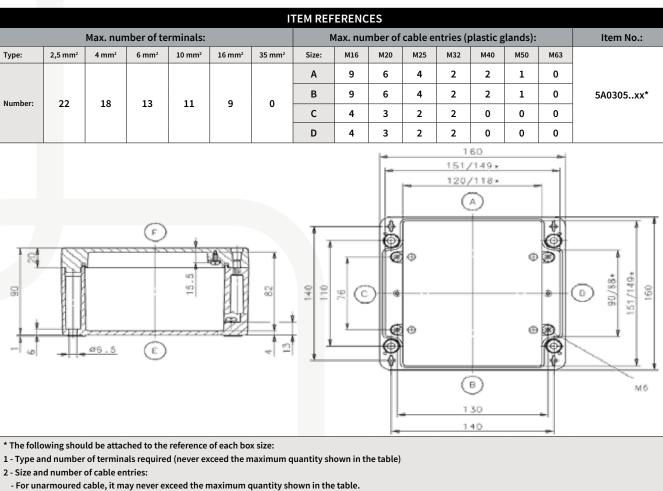
CONFIGURABLE EX-PROOF ALUMINIUM TERMINAL BOXES

Zones 1, 2, 21, 22

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Full catalogue available on our website: www.inpratex.com
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The number of cable entries and the number of terminals is configurable according to the customer's needs. The boxes are supplied finished, with the necessary terminals and with the cable entries already made.

We don't supply empty "U" certified enclosures. These terminal boxes must be configured with the number of terminals and cable entries.

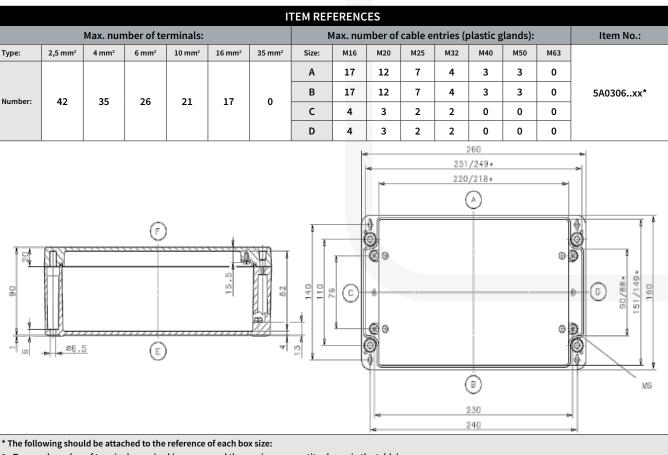


If armoured cable is used, the number of entries must be defined in each case.

TECHNICAL SPECIFICATIONS				
Marking:	(2) II 2G Ex e II T4/T6 Gb (2) II 2G Ex ia IIC T6 Gb (2) II 2D Ex tD A21 IP65 T80°C			
Certificate:	EU-Type Examination Certificate			
Operating temperature:	-50°C to +60°C			
Dimensions:	160x160x90 mm			
Ingress protection:	IP65			
Weight:	1410 g (empty)			
Colour:	RAL 7001			

The number of cable entries and the number of terminals is configurable according to the customer's needs. The boxes are supplied finished, with the necessary terminals and with the cable entries already made.

We don't supply empty "U" certified enclosures. These terminal boxes must be configured with the number of terminals and cable entries.



1 - Type and number of terminals required (never exceed the maximum quantity shown in the table)

2 - Size and number of cable entries:

- For unarmoured cable, it may never exceed the maximum quantity shown in the table.

- If armoured cable is used, the number of entries must be defined in each case.

The value 0 indicates that this type of terminal / cable entry size can't be used in this box model

TECHNICAL SPECIFICATIONS 🔛 II 2G Ex e II T4/T6 Gb Marking: II 2G Ex ia IIC T6 Gb 😢 II 2D Ex tD A21 IP65 T80°C Certificate: **EU-Type Examination Certificate Operating temperature:** -50°C to +60°C **Dimensions:** 260x160x90 mm IP65 Ingress protection: Weight: 1960 g (empty) RAL 7001 Colour:

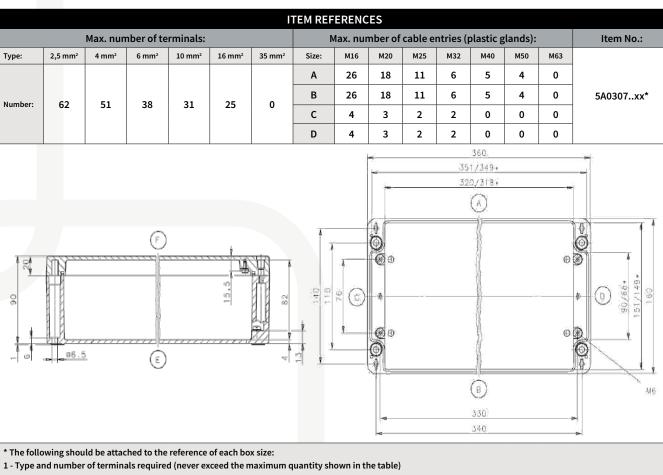
CONFIGURABLE EX-PROOF ALUMINIUM TERMINAL BOXES

Zones 1, 2, 21, 22

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Full catalogue available on our website: www.inpratex.com
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The number of cable entries and the number of terminals is configurable according to the customer's needs. The boxes are supplied finished, with the necessary terminals and with the cable entries already made.

We don't supply empty "U" certified enclosures. These terminal boxes must be configured with the number of terminals and cable entries.



2 - Size and number of cable entries:

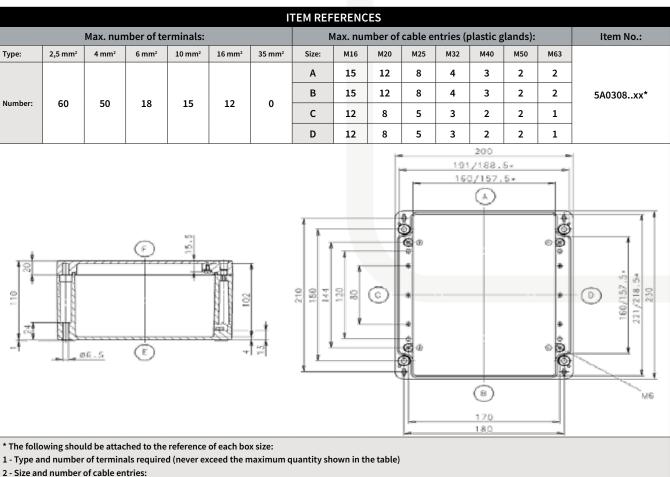
- For unarmoured cable, it may never exceed the maximum quantity shown in the table.

- If armoured cable is used, the number of entries must be defined in each case.

TECHNICAL SPECIFICATIONS				
Marking:	(2) II 2G Ex e II T4/T6 Gb (2) II 2G Ex ia IIC T6 Gb (2) II 2D Ex tD A21 IP65 T80°C			
Certificate:	EU-Type Examination Certificate			
Operating temperature:	-50°C to +60°C			
Dimensions:	360x160x90 mm			
Ingress protection:	IP65			
Weight:	2550 g (empty)			
Colour:	RAL 7001			

The number of cable entries and the number of terminals is configurable according to the customer's needs. The boxes are supplied finished, with the necessary terminals and with the cable entries already made.

We don't supply empty "U" certified enclosures. These terminal boxes must be configured with the number of terminals and cable entries.



- For unarmoured cable, it may never exceed the maximum quantity shown in the table.

- If armoured cable is used, the number of entries must be defined in each case.

The value 0 indicates that this type of terminal / cable entry size can't be used in this box model

TECHNICAL SPECIFICATIONS

Marking:	II 2G Ex e II T4/T6 Gb II 2G Ex ia IIC T6 Gb II 2D Ex tD A21 IP65 T80°C
Certificate:	EU-Type Examination Certificate
Operating temperature:	-50°C to +60°C
Dimensions::	200x230x110 mm
Ingress protection:	IP65
Weight:	2730 g (empty)
Colour:	RAL 7001

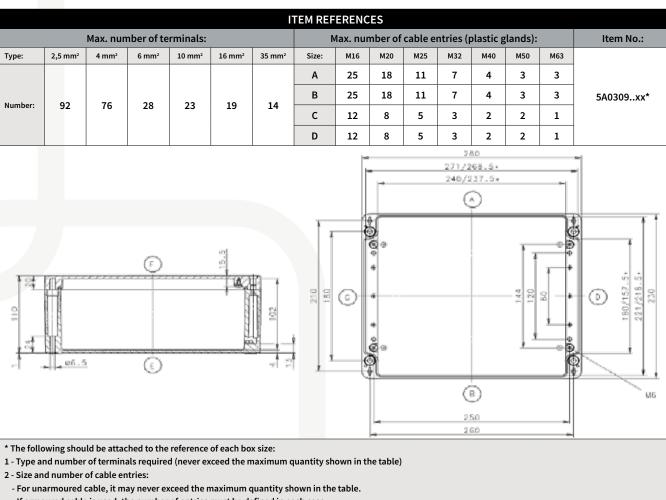
CONFIGURABLE EX-PROOF ALUMINIUM TERMINAL BOXES

Zones 1, 2, 21, 22

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Full catalogue available on our website: www.inpratex.com
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The number of cable entries and the number of terminals is configurable according to the customer's needs. The boxes are supplied finished, with the necessary terminals and with the cable entries already made.

We don't supply empty "U" certified enclosures. These terminal boxes must be configured with the number of terminals and cable entries.

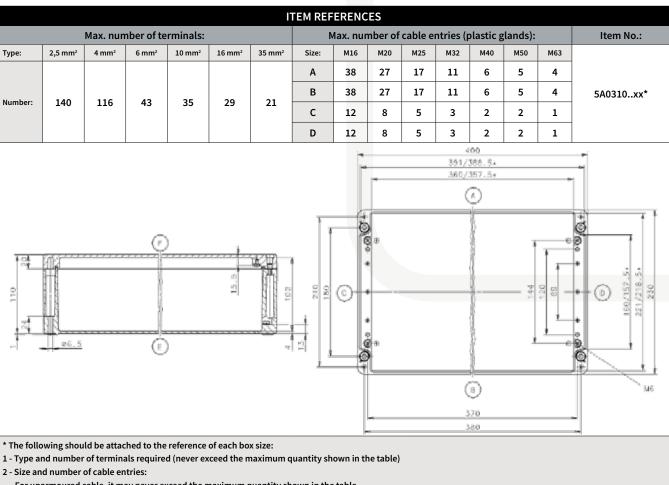


- If armoured cable is used, the number of entries must be defined in each case.

TECHNICAL SPECIFICATIONS				
Marking:	Ex II 2G Ex e II T4/T6 Gb II 2G Ex ia IIC T6 Gb II 2D Ex tD A21 IP65 T80°C			
Certificate:	EU-Type Examination Certificate			
Operating temperature:	-50°C to +60°C			
Dimensions:	280x230x110 mm			
Ingress protection:	IP65			
Weight:	3840 g (empty)			
Colour:	RAL 7001			

The number of cable entries and the number of terminals is configurable according to the customer's needs. The boxes are supplied finished, with the necessary terminals and with the cable entries already made.

We don't supply empty "U" certified enclosures. These terminal boxes must be configured with the number of terminals and cable entries.



- For unarmoured cable, it may never exceed the maximum quantity shown in the table.

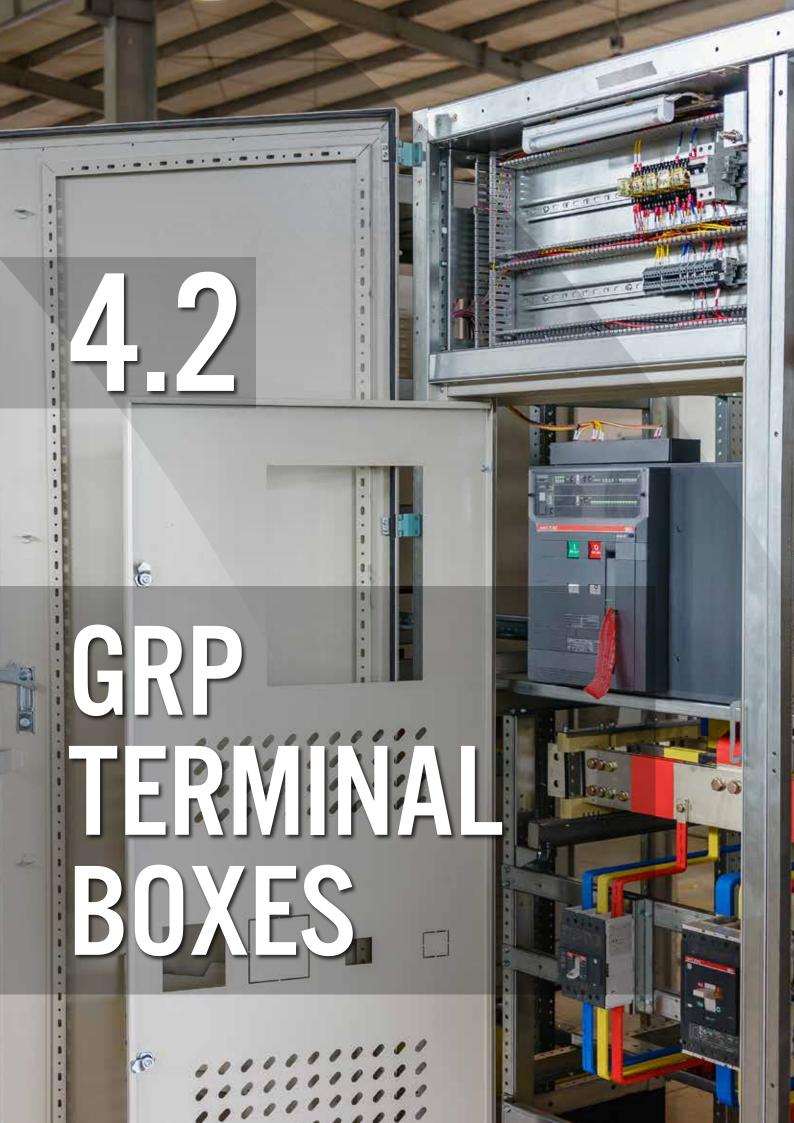
- If armoured cable is used, the number of entries must be defined in each case.

The value 0 indicates that this type of terminal / cable entry size can't be used in this box model

TECHNICAL SPECIFICATIONS

Marking:	Ex II 2G Ex e II T4/T6 Gb II 2G Ex ia IIC T6 Gb II 2D Ex tD A21 IP65 T80°C
Certificate:	EU-Type Examination Certificate
Operating temperature:	-50°C to +60°C
Dimensions:	400x230x110 mm
Ingress protection:	IP65
Weight:	4870 g (empty)
Colour:	RAL 7001





CONFIGURABLE EX E GRP JUNCTION BOXES

Zones 1, 2, 21, 22

ATEX JUNCTION BOXES

ZONES 1, 2 (gas) & 21, 22 (dust)



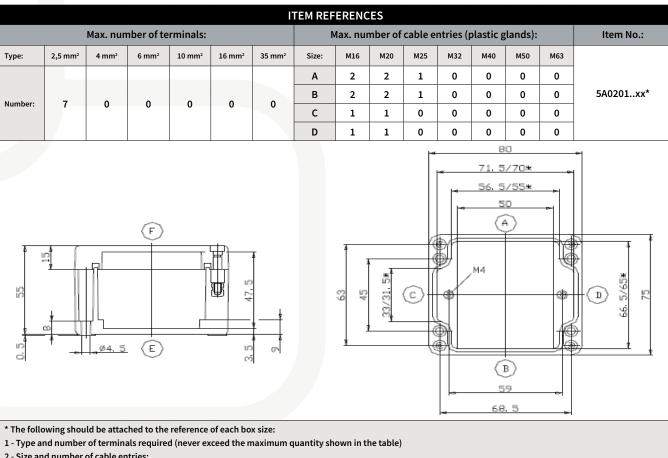




We don't supply empty "U"

certified enclosures. These terminal boxes must be configured with the number of terminals and cable entries.

GRP (glass-reinforced polyester) junction box range, suitable for use within ATEX-rated Ex e Increased Safety areas. Supplied fully assembled and certified, please confirm your terminal and gland size/s and quantity requirements when enquiring.



2 - Size and number of cable entries:

- For unarmoured cable, it may never exceed the maximum quantity shown in the table.

- If armoured cable is used, the number of entries must be defined in each case.

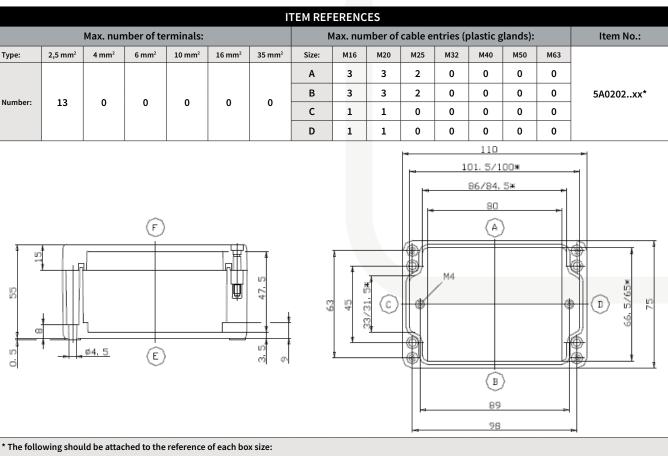
The value 0 indicates that this type of terminal / cable entry size can't be used in this box model

TECHNICAL SPECIFICATIONS

Marking:	EXAMPLE AND ADD ADD ADD ADD ADD ADD ADD ADD ADD							
Certificate:	EU-Type Examination Certificate							
Operating temperature:	-50°C to +60°C							
Dimensions:	80x75x55 mm							
Ingress protection:	IP65							
Weight:	30 g (empty)							
Colour:	RAL 9005							

The number of cable entries and the number of terminals is configurable according to the customer's needs. The boxes are supplied finished, with the necessary terminals and with the cable entries already made.

We don't supply empty "U" certified enclosures. These terminal boxes must be configured with the number of terminals and cable entries.



1 - Type and number of terminals required (never exceed the maximum quantity shown in the table)

2 - Size and number of cable entries:

- For unarmoured cable, it may never exceed the maximum quantity shown in the table.

- If armoured cable is used, the number of entries must be defined in each case.

The value 0 indicates that this type of terminal / cable entry size can't be used in this box model

	TECHNICAL SPECIFICATIONS
Marking:	(2) II 2G Ex e II T4/T6 Gb (2) II 2G Ex ia IIC T6 Gb (2) II 2D Ex tD A21 IP65 T80°C
Certificate:	EU-Type Examination Certificate
Operating temperature:	-50°C to +60°C
Dimensions:	110x75x55 mm
Ingress protection:	IP65
Weight:	295 g (empty)
Colour:	RAL 9005

CONTROL & CONNECTION EQUIPMENT 🍘 🛧

CONFIGURABLE EX E GRP JUNCTION BOXES

Zones 1, 2, 21, 22

The number of cable entries and the number of terminals is configurable according to the customer's needs. The boxes are supplied finished, with the necessary terminals and with the cable entries already made.

We don't supply empty "U" certified enclosures. These terminal boxes must be configured with the number of terminals and cable entries.

							TEM REF	ERENC	ES							
	Max. number of terminals:								Max. number of cable entries (plastic glands):							
Туре:	2,5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²	35 mm²	Size:	M16	M20	M25	M32	M40	M50	M63		
							Α	5	4	3	0	0	0	0		
Number:	22	0	0	0	0	0	В	5	4	3	0	0	0	0	5A0203xx*	
Number.	22	U		0	0		с	1	1	0	0	0	0	0		
							D	1	1	0	0	0	0	0		
									H			160				
												151. 573	.50 *			
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												(B)			
												No.	2			
										-		13	9		 _	
												148	3			

2 - Size and number of cable entries:

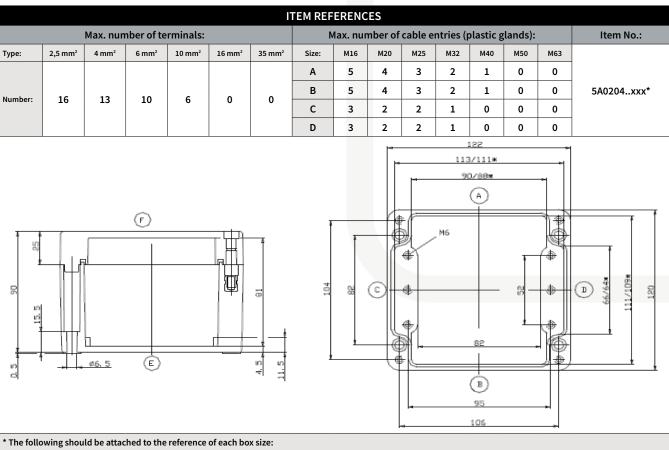
- For unarmoured cable, it may never exceed the maximum quantity shown in the table.

- If armoured cable is used, the number of entries must be defined in each case.

TECHNICAL SPECIFICATIONS						
Marking:	(2) II 2G Ex e II T4/T6 Gb (2) II 2G Ex ia IIC T6 Gb (2) II 2D Ex tD A21 IP65 T80°C					
Certificate:	EU-Type Examination Certificate					
Operating temperature:	-50°C to +60°C					
Dimensions:	160x75x55 mm					
Ingress protection:	IP65					
Weight:	405 g (empty)					
Colour:	RAL 9005					

The number of cable entries and the number of terminals is configurable according to the customer's needs. The boxes are supplied finished, with the necessary terminals and with the cable entries already made.

We don't supply empty "U" certified enclosures. These terminal boxes must be configured with the number of terminals and cable entries.



1 - Type and number of terminals required (never exceed the maximum quantity shown in the table)

2 - Size and number of cable entries:

- For unarmoured cable, it may never exceed the maximum quantity shown in the table.

- If armoured cable is used, the number of entries must be defined in each case.

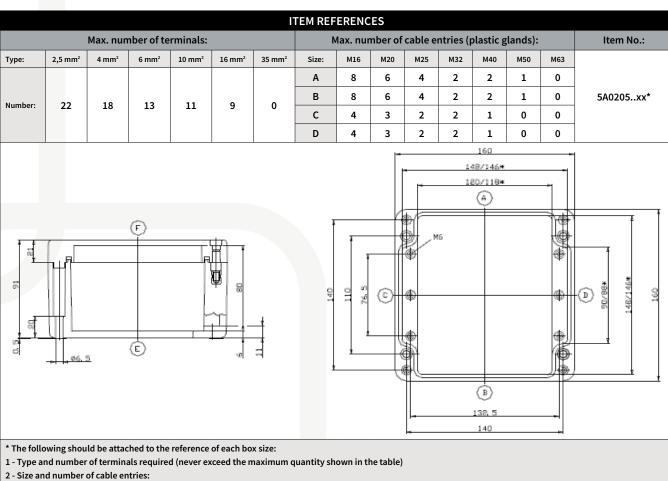
TECHNICAL SPECIFICATIONS						
Marking:	U 2G Ex e II T4/T6 Gb II 2G Ex ia IIC T6 Gb II 2D Ex tD A21 IP65 T80°C					
Certificate:	EU-Type Examination Certificate					
Operating temperature:	-50°C to +60°C					
Dimensions:	122x120x90 mm					
Ingress protection:	IP65					
Weight:	750 g (empty)					
Colour:	RAL 9005					

CONFIGURABLE EX E GRP JUNCTION BOXES

Zones 1, 2, 21, 22

The number of cable entries and the number of terminals is configurable according to the customer's needs. The boxes are supplied finished, with the necessary terminals and with the cable entries already made.

We don't supply empty "U" certified enclosures. These terminal boxes must be configured with the number of terminals and cable entries.



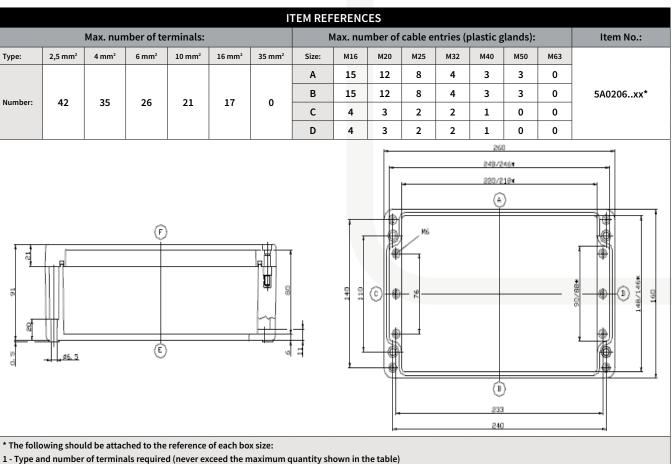
- For unarmoured cable, it may never exceed the maximum quantity shown in the table.

If armoured cable is used, the number of entries must be defined in each case.

TECHNICAL SPECIFICATIONS						
Marking:	(2) II 2G Ex e II T4/T6 Gb (2) II 2G Ex ia IIC T6 Gb (2) II 2D Ex tD A21 IP65 T80°C					
Certificate:	EU-Type Examination Certificate					
Operating temperature:	-50°C to +60°C					
Dimensions:	160x160x91 mm					
Ingress protection:	IP65					
Weight:	1130 g (empty)					
Colour:	RAL 9005					

The number of cable entries and the number of terminals is configurable according to the customer's needs. The boxes are supplied finished, with the necessary terminals and with the cable entries already made.

We don't supply empty "U" certified enclosures. These terminal boxes must be configured with the number of terminals and cable entries.



2 - Size and number of cable entries:

- For unarmoured cable, it may never exceed the maximum quantity shown in the table.

- If armoured cable is used, the number of entries must be defined in each case.

	TECHNICAL SPECIFICATIONS
Marking:	(2) II 2G Ex e II T4/T6 Gb II 2G Ex ia IIC T6 Gb II 2D Ex tD A21 IP65 T80°C
Certificate:	EU-Type Examination Certificate
Operating temperature:	-50°C to +60°C
Dimensions:	260x160x91 mm
Ingress protection:	IP65
Weight:	1710 g (empty)
Colour:	RAL 9005

CONFIGURABLE EX E GRP JUNCTION BOXES

Zones 1, 2, 21, 22

The number of cable entries and the number of terminals is configurable according to the customer's needs. The boxes are supplied finished, with the necessary terminals and with the cable entries already made.

We don't supply empty "U" certified enclosures. These terminal boxes must be configured with the number of terminals and cable entries.

		Max	ah ay af ta	, maineles		<u> </u>	TEM REF			aabla a	ntuine ()		-levele).		ltere No
Max. number of terminals: fype: 2,5 mm² 4 mm² 6 mm² 10 mm² 16 mm² 35 mm²								Max. nur	M20	M25	M32	M40	M50	M63	Item No.:
ype:	2,5 mm ²	4 mm ²	6 mm-	10 mm-	16 mm-	35 mm ²	Size:								
							A	23	18	11	7	5	4	0	
lumber:	62	51	38	31	25	0	В	23	18	11	7	5	4	0	5A0207xx*
							C	4	3	2	2	1	0	0	
							D	4	3	2	2	1	0	0	
								8	-			360			
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	\$6.5		(E)									350 340			

1 - Type and number of terminals required (never exceed the maximum quantity shown in the table)

2 - Size and number of cable entries:

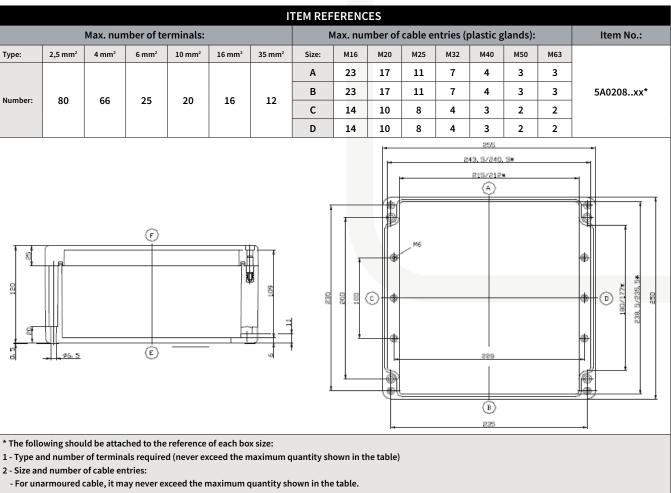
- For unarmoured cable, it may never exceed the maximum quantity shown in the table.

- If armoured cable is used, the number of entries must be defined in each case.

TECHNICAL SPECIFICATIONS					
Marking:	Ex II 2G Ex e II T4/T6 Gb II 2G Ex ia IIC T6 Gb II 2D Ex tD A21 IP65 T80°C				
Certificate:	EU-Type Examination Certificate				
Operating temperature:	-50°C to +60°C				
Dimensions:	360x160x91 mm				
Ingress protection:	IP65				
Weight:	2150 g (empty)				
Colour:	RAL 9005				

The number of cable entries and the number of terminals is configurable according to the customer's needs. The boxes are supplied finished, with the necessary terminals and with the cable entries already made.

We don't supply empty "U" certified enclosures. These terminal boxes must be configured with the number of terminals and cable entries.



- If armoured cable is used, the number of entries must be defined in each case.

The value 0 indicates that this type of terminal / cable entry size can't be used in this box model

TECHNICAL SPECIFICATIONS 🔛 II 2G Ex e II T4/T6 Gb Marking: II 2G Ex ia IIC T6 Gb 😢 II 2D Ex tD A21 IP65 T80°C Certificate: **EU-Type Examination Certificate Operating temperature:** -50°C to +60°C **Dimensions:** 255x250x120 mm Ingress protection: IP65 Weight: 2650 g (empty) RAL 9005 Colour:

CONFIGURABLE EX E GRP JUNCTION BOXES

Zones 1, 2, 21, 22

The number of cable entries and the number of terminals is configurable according to the customer's needs. The boxes are supplied finished, with the necessary terminals and with the cable entries already made.

We don't supply empty "U" certified enclosures. These terminal boxes must be configured with the number of terminals and cable entries.

							TEM REF	ERENC	ES						
Max. number of terminals:								/lax. nur	nber of	cable e	ntries (J	olastic g	glands):		Item No.:
Туре:	2,5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²	35 mm²	Size:	M16	M20	M25	M32	M40	M50	M63	
							Α	38	27	17	13	6	5	4	
Number:	140	116	43	35	29	21	В	38	27	17	13	6	5	4	5A0209xx*
number:	140	110	43	35	29	21	С	14	14 10	8	4	3	2	2	
							D	14	10	8	4	3	2	2	
0.5 120 120	Ø6.5		Ē				065	500 100		MG		388, 5/385 360/355 (A) 373 373 373 (B) 380			

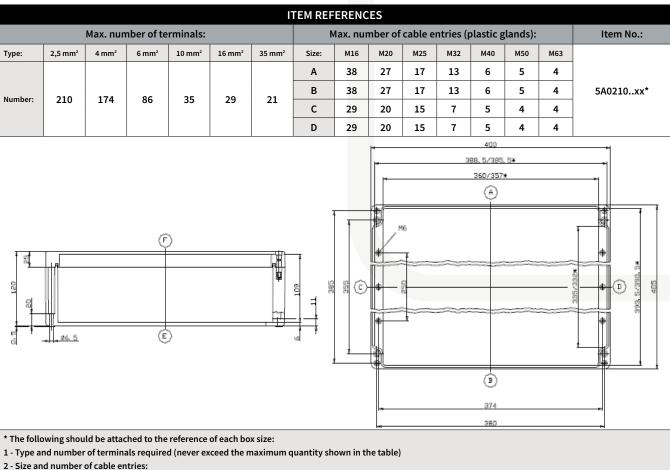
- For unarmoured cable, it may never exceed the maximum quantity shown in the table.

- If armoured cable is used, the number of entries must be defined in each case.

TECHNICAL SPECIFICATIONS						
Marking:	(1) 2G Ex e II T4/T6 Gb (1) 2G Ex ia IIC T6 Gb (1) 2D Ex tD A21 IP65 T80°C					
Certificate:	EU-Type Examination Certificate					
Operating temperature:	-50°C to +60°C					
Dimensions:	400x250x120 mm					
Ingress protection:	IP65					
Weight:	3650 g (empty)					
Colour:	RAL 9005					

The number of cable entries and the number of terminals is configurable according to the customer's needs. The boxes are supplied finished, with the necessary terminals and with the cable entries already made.

We don't supply empty "U" certified enclosures. These terminal boxes must be configured with the number of terminals and cable entries.



- For unarmoured cable, it may never exceed the maximum quantity shown in the table.

- If armoured cable is used, the number of entries must be defined in each case.

The value 0 indicates that this type of terminal / cable entry size can't be used in this box model

TECHNICAL SPECIFICATIONS 🔛 II 2G Ex e II T4/T6 Gb Marking: II 2G Ex ia IIC T6 Gb 😥 II 2D Ex tD A21 IP65 T80°C Certificate: **EU-Type Examination Certificate Operating temperature:** -50°C to +60°C **Dimensions:** 400x405x120 mm IP65 Ingress protection: Weight: 5580 g (empty) RAL 9005 Colour:

CONFIGURABLE EX E GRP JUNCTION BOXES

Zones 1, 2, 21, 22

The number of cable entries and the number of terminals is configurable according to the customer's needs. The boxes are supplied finished, with the necessary terminals and with the cable entries already made.

We don't supply empty "U" certified enclosures. These terminal boxes must be configured with the number of terminals and cable entries.

					ľ	TEM REF	ERENC	ES						
	Max. nun	nber of te	rminals:			Ν	lax. nur	nber of	cable e	ntries (J	olastic g	glands):		Item No.:
Гуре: 2,5 mm²	4 mm ²	6 mm ²	10 mm ²	16 mm ²	35 mm ²	Size:	M16	M20	M25	M32	M40	M50	M63	
						Α	84	52	24	18	10	6	4	
						В	84	52	24	18	10	6	4	5A0211xx*
Number: 220	nber: 220 182	68	55	45	34	с	14	10	8	4	3	2	2	
						D	14	10	8	4	3	2	2	
					1			14			600			
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2 - Size and number of cable entries:

- For unarmoured cable, it may never exceed the maximum quantity shown in the table.

- If armoured cable is used, the number of entries must be defined in each case.

TECHNICAL SPECIFICATIONS				
Marking:	(2) II 2G Ex e II T4/T6 Gb II 2G Ex ia IIC T6 Gb II 2D Ex tD A21 IP65 T80°C			
Certificate:	EU-Type Examination Certificate			
Operating temperature:	-50°C to +60°C			
Dimensions:	600x250x120 mm			
Ingress protection:	IP65			
Weight:	5380 g (empty)			
Colour:	RAL 9005			

GRPJUNCTION BOX 2 CABLE ENTRIES - 2 TERMINALS

Zones 1, 2, 21, 22

ATEX JUNCTION BOXES

ZONES 1, 2 (gas) & 21, 22 (dust)



GRP (glass-reinforced polyester) junction box, suitable for use within ATEX rated Ex e Increased Safety areas.

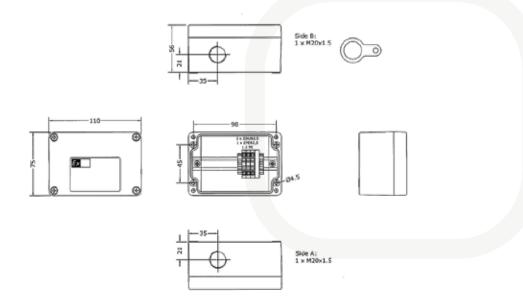
Equipped with 2 cable entries and 2 $2,5mm^2 + 1$ PE terminals.





	ITEM REFERENCES	
Designation:	Cable glands:	Item No.:
A21-E1-01106+2T2,5+2M20	Without cable glands	5A1003
A21-E1-01106+2T2,5+1PM20+1PAM20	1 plastic cable gland (4-13 mm) + 1 brass cable gland (9-15,5 mm)	5A1004
A21-E1-01106+2T2,5+1PM20+1PANM20	1 plastic cable glands (4-13 mm) + 1 nickel plated brass cable gland (9-15,5 mm)	5A1005

TECHNICAL SPECIFICATIONS				
Marking:	II 2G Ex eb IIC T6 Gb			
Certificate:	EU-Type Examination Certificate			
Housing:	Glass Reinforced Polyester (GRP)			
Dimensions:	110x75x55 mm			
Operating temperature:	-20°C to +40°C			
Rated voltage:	max. 550V			
Rated current:	max. 21 A			
Terminals:	2 x 2,5mm ² + 1 PE			
Ingress protection:	IP65			
Cable entries:	2xM20x1,5			



GRPJUNCTION BOX 4 CABLE ENTRIES - 12 TERMINALS

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX JUNCTION BOXES

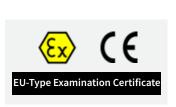
ZONES 1, 2 (gas) & 21, 22 (dust)



* Supplied without cable glands and plugs

GRP (glass-reinforced polyester) junction box, suitable for use within ATEX rated Ex e Increased Safety areas.

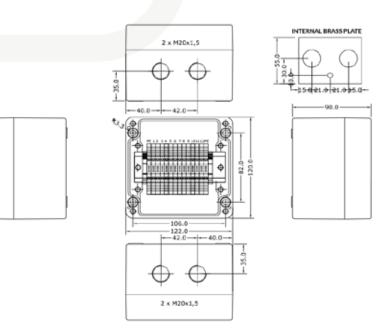
Equipped with 4 cable entries and 12 terminals 2,5mm² + 2 PE Terminals.





ITEM REFERENCES	
Designation:	Item No.:
A21-E1-01209+12T2,5+4M20	5A0601
3 mm inner grounding plate for armoured cable	5A0602

TECHNICAL SPECIFICATIONS				
Marking:	II 2G Ex e IIC T6 Gb			
Certificate:	EU-Type Examination Certif	icate		
Housing:	Glass Reinforced Polyester	GRP)		
Dimensions:	122x120x90 mm			
Operating temperature:	-40°C to +40°C			
Rated voltage:	max. 500V			
Rated current:	max. 13 A			
Terminals:	12 x 2,5mm ² + 2 PE			
Ingress protection:	IP65			
Cable entries:	4xM20x1,5 (Supplied witho	ut cab	le glands and plugs)	



GRPJUNCTION BOX 4 CABLE ENTRIES - 19 TERMINALS

Zones 1, 2, 21, 22

ATEX JUNCTION BOXES

ZONES 1, 2 (gas) & 21, 22 (dust)



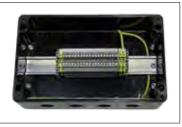
* Supplied without cable glands and plugs

ATEX junction boxes certified for installation in hazardous areas.

Manufactured in Glass Reinforced Polyester (GRP)

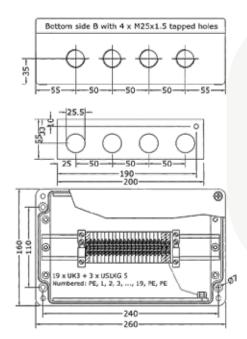
The box is configured with 4 unplugged M25x1.5 cable entries, and is equipped with 19 2.5mm² terminals, 3 grounding terminals and a brass grounding plate inside.





ITEM REFERENCES				
Designation:	Item No.:			
A21-E1-02609+19T2,5+4M25	5A1001			

	TECHNICAL SPECIFICATIONS
Marking:	II 2G Ex eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db
Certificate:	EU-Type Examination Certificate
Housing:	Glass Reinforced Polyester (GRP)
Dimensions:	260x160x90 mm
Operating temperature:	-20°C to +40°C
Rated voltage:	max. 500V
Rated current:	max. 10 A
Terminals:	19 x 2,5mm ² + 3 PE
Ingress protection:	IP66
Cable entries:	4xM25x1,5 (Cable glands / plugs not included)





GRPJUNCTION BOX 5 CABLE ENTRIES - 20 TERMINALS

Zones 1, 2, 21, 22

ATEX JUNCTION BOXES

ZONES 1, 2 (gas) & 21, 22 (dust)

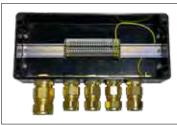
ATEX junction boxes certified for installation in hazardous areas.

* Supplied without cable glands and plugs

Manufactured in Glass Reinforced Polyester (GRP)

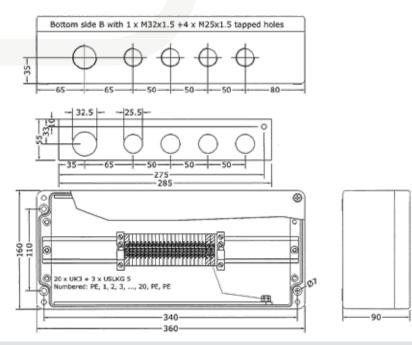
The box is configured with 4 unplugged M25x1.5 and 1 M32x1,5 cable entries, and is equipped with 20 2.5mm² terminals, 3 grounding terminals and a brass grounding plate inside.





ITEM REFERENCES	
Designation:	Item No.:
A21-E1-03609+20T2,5+4M25+1M32	5A1002

	TECHNICAL SPECIFICATIONS
Marking:	II 2G Ex eb IIC T6 Gb
Certificate:	EU-Type Examination Certificate
Housing:	Glass Reinforced Polyester (GRP)
Dimensions:	360x160x90 mm
Operating temperature:	-20°C to +40°C
Rated voltage:	max. 500V
Rated current:	max. 10 A
Terminals:	20 x 2,5mm ² + 3 PE
Ingress protection:	IP66
Cable entries:	4xM25x1,5 1xM32x1,5 (Cable glands / plugs not included)



GRPJUNCTION BOX 10 CABLE ENTRIES - 14 TERMINALS

Zones 1, 2, 21, 22

ATEX JUNCTION BOXES

ZONES 1, 2 (gas) & 21, 22 (dust)

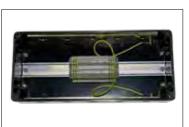


* Supplied without cable glands and plugs

ATEX junction boxes certified for installation in hazardous areas. Manufactured in Glass Reinforced Polyester (GRP)

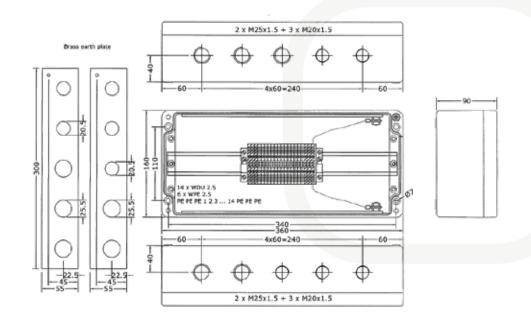
The box is configured with 3xM20x1.5 and 2xM25x1.5 entries on its upper side, and 2xM20x1.5 and 3xM25x1.5 entries on its lower side, and is equipped with 14 2.5mm² terminals, 6 grounding terminals and a 2 brass grounding plates inside.





ITEM REFERENCES	
Designation:	Item No.:
A21-E1-03609+14T2,5+5M20+5M25	5A0816

	TECHNICAL SPECIFICATIONS
Marking:	Il 2G Ex eb IIC T6 Gb
Certificate:	EU-Type Examination Certificate
Housing:	Glass Reinforced Polyester (GRP)
Dimensions:	360x160x90 mm
Operating temperature:	-20°C to +40°C
Rated voltage:	max. 500V
Rated current:	max. 12 A
Terminals:	14 x 2,5mm ² + 6 PE
Ingress protection:	IP65
Cable entries:	Upper side: 3xM20x1,5, 2xM25x1,5 (Cable glands / plugs not included) Bottom side: 2xM20x1,5, 3xM25x1,5 (Cable glands / plugs not included)



180

GRPJUNCTION BOX ZONE 2,22 - 4 ENTRIES ARMOURED CABLE

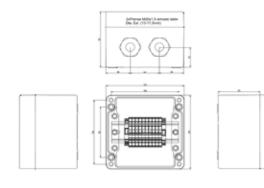
Zones 2, 22

Full catalogue available on our website: www.inpratex.com



	ITEM REFERENCES	
Designation:	Cable entries:	Item No.:
Junction Box EX 12212090 GRP L	4 x M20x1,5 brass cable gland (14-20,5 mm)	5A0701
Junction Box EX 12212090 GRP LN	4 x M20x1,5 nickel plated brass cable gland (14-20,5 mm)	5A0702
Junction Box EX 12212090 GRP TP	4 x M20x1,5 plastic cable glands (Grounding plates included)	5A0703

	TECHNICAL SPECIFICATIONS	
Marking:	II 3G Ex e IIC T6 Gc II 3D Ex tb IIIC T80°C Dc	
Certificate:	Declaration of conformity	
Housing:	Glass Reinforced Polyester (GRP)	
Dimensions:	122x120x90 mm	
Operating temperature:	-20°C to +60°C -50°C to +60°C (Whenever permitted by the terminal used)	
Terminals:	6 x 2,5mm ² with jumpers (1, 2/3, 4/5, 6) + 4 PE terminals 2,5mm ² (PE)	
Ingress protection:	IP66 IK08	
Cable entries:	4xM20x1,5 brass cable glands for armoured cable / plugs	







Full catalogue available on our website: www.inpratex.com



ATEX junction box for hazardous areas (Zones 2,22).

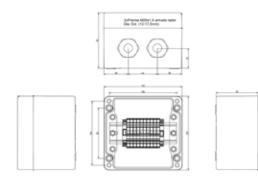
Manufactured in fibreglass reinforced polyester.

It is equipped with 4 M20x1,5 entries for non armoured cable, 6 x 2,5mm² terminals and 4 x 2,5mm² PE terminals.



ITEM REFERENCES		
Designation:	Cable entries:	Item No.:
Junction Box EX 12212090 GRP P	4 x M20x1,5 plastic cable glands (7-13 mm)	5A0704
Junction Box EX 12212090 GRP T	4 x M20x1,5 plastic plugs	5A0705

TECHNICAL SPECIFICATIONS		
Marking:	UI 3G Ex e IIC T6 Gc	
Certificate:	Declaration of conformity	
Housing:	Glass Reinforced Polyester (GRP)	
Dimensions:	122x120x90 mm	
Operating temperature:	-20°C to +60°C -50°C to +60°C (Whenever permitted by the terminal used)	
Terminals:	6 x 2,5mm ² with jumpers (1, 2/3, 4/5, 6) + 4 PE terminals 2,5mm ² (PE)	
Ingress protection:	IP66 IK08	
Cable entries:	4xM20x1,5 plastic cable glands for non armoured cable / plugs	







GRP EX I JUNCTION BOX - 2 ENTRIES / 2 TERMINALS

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX JUNCTION BOXES

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ZONES 1, 2 (gas) & 21, 22 (dust)

Ex i junction box for hazardous areas.

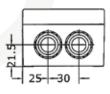
Made of glass fiber reinforced polyester.

The box includes 2 cable entries with blue polyamide glands M20x1.5 and is equipped with 2x2.5mm² blue terminals + 1 earth terminal.



ITEM REFERENCES	
Designation:	Item No.:
A21-I1-Z1246+2T2,5+2M20	5A0802

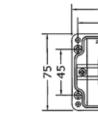
	TECHNICAL SPECIFICATIONS
Marking:	II 2(1)G Ex e [ia] IIC T6 Gb
Certificate:	EU-Type Examination Certificate
Housing:	Glass Reinforced Polyester (GRP)
Dimensions:	80x75x55 mm
Operating temperature:	-20°C to +40°C
Terminals:	2 x 2,5mm ² + 1 PE
Ingress protection:	IP66
Cable entries:	2xM20x1,5 plastic blue cable glands (7-13 mm)

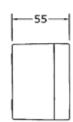


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Side B: 2 cable gland M20x1,5 bu for cable 4-13 mm





Zones 1, 2, 21, 22

ATEX JUNCTION BOXES

ZONES 1, 2 (gas) & 21, 22 (dust)

Contraction of the contraction o

Ex i junction box for hazardous areas.

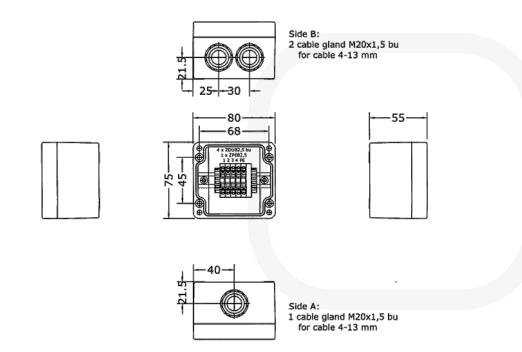
Made of glass fiber reinforced polyester.

The box includes 3 cable entries with blue polyamide glands M20x1.5 and is equipped with 4x2.5 mm² blue terminals + 1 earth terminal.



ITEM REFERENCES		
Designation:	Item No.:	
A21-I1-Z1245+4T2,5+3M20	5A0803	

	TECHNICAL SPECIFICATIONS
Marking:	(L)
Certificate:	EU-Type Examination Certificate
Housing:	Glass Reinforced Polyester (GRP)
Dimensions:	80x75x55 mm
Operating temperature:	-20°C to +40°C
Terminals:	4 x 2,5mm ² + 1 PE
Ingress protection:	IP66
Cable entries:	3xM20x1,5 plastic blue cable glands (7-13 mm)



GRP EX I JUNCTION BOX - 4 ENTRIES / 6 TERMINALS

ZONES 1, 2 (gas) & 21, 22 (dust)

Zones 1, 2, 21, 22

ATEX JUNCTION BOXES

Full catalogue available on our website: www.inpratex.com

Ex i junction box for hazardous areas.

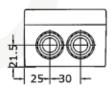
Made of glass fiber reinforced polyester.

The box includes 4 cable entries with blue polyamide glands M20x1.5 and is equipped with 6x2.5mm² blue terminals + 1 earth terminal.

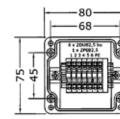


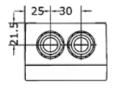
ITEM REFERENCES	
Designation:	Item No.:
A21-I1-Z1244+6T2,5+4M20	5A0801

	TECHNICAL SPECIFICATIONS
Marking:	II 2(1)G Ex e [ia] IIC T6 Gb II 2D Ex tb IIIC T80°C
Certificate:	EU-Type Examination Certificate
Housing:	Glass Reinforced Polyester (GRP)
Dimensions:	80x75x55 mm
Operating temperature:	-20°C to +40°C
Terminals:	6 x 2,5mm ² + 1 PE
Ingress protection:	IP66
Cable entries:	4xM20x1,5 plastic blue cable glands (7-13 mm)



Side B: 2 cable gland M20x1,5 bu for cable 4-13 mm





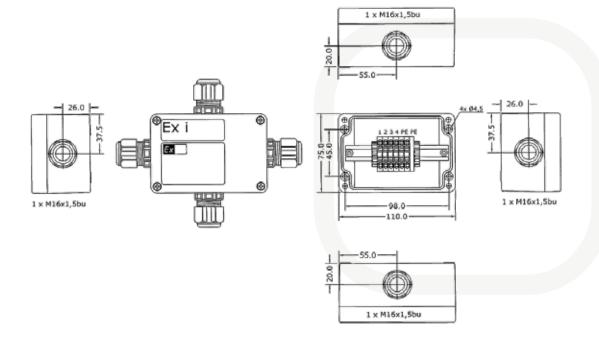
Side A: 2 cable gland M20x1,5 bu for cable 4-13 mm

GRP EX I JUNCTION BOX - 4 ENTRIES / 4 TERMINALS

Zones 1, 2, 21, 22

ZONES 1, 2 (gas) & 21, 22 (dust) **ATEX JUNCTION BOXES** Ex i junction box for hazardous areas. Made of glass fiber reinforced polyester. The box includes 4 cable entries with blue polyamide glands M20x1.5 Ex in and is equipped with 4x2.5mm² blue terminals + 2 earth terminals. €€012 A21-11-01104 222577 CE EU-Type Examination Certificate **ITEM REFERENCES Designation:** Item No.: A21-I1-01106+4T2,5+4M20 5A0804 **TECHNICAL SPECIFICATIONS** BY II 2(1)G Ex eb [ia Ga] IIC T6 Gb Marking: Certificate: **EU-Type Examination Certificate**

Housing:	Glass Reinforced Polyester (GRP)
Dimensions:	110x75x55 mm
Operating temperature:	-20°C to +40°C
Terminals:	4 x 2,5mm ² + 2 PE
Ingress protection:	IP66
Cable entries:	4xM20x1,5 plastic blue cable glands (7-13 mm)



GRP EX I JUNCTION BOX - 4 ENTRIES / 10 TERMINALS

ZONES 1, 2 (gas) & 21, 22 (dust)

Zones 1, 2, 21, 22

ATEX JUNCTION BOXES



Ex i junction box for hazardous areas.

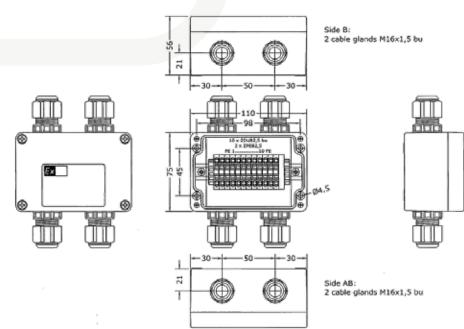
Made of glass fiber reinforced polyester.

The box includes 4 cable entries with blue polyamide glands M20x1.5 and is equipped with 10x2.5mm² blue terminals + 2 earth terminals.



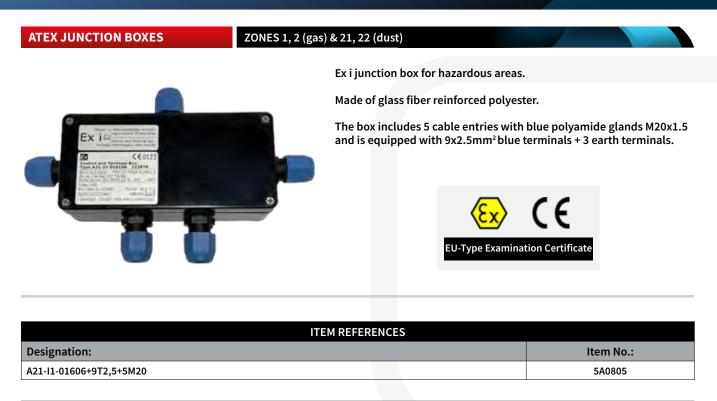
ITEM REFERENCES	
Designation:	Item No.:
A21-I1-01106+10T2,5+4M20	5A0815

TECHNICAL SPECIFICATIONS							
Marking:	(2) II 2(1)G Ex eb [ia Ga] IIC T6 Gb (2) II 2(1)D Ex tb [ia Da] IIIC T80°C Db						
Certificate:	EU-Type Examination Certificate						
Housing:	Glass Reinforced Polyester (GRP)						
Dimensions:	110x75x55 mm						
Operating temperature:	-20°C to +40°C						
Terminals:	10 x 2,5mm ² + 2 PE						
Ingress protection:	IP65						
Cable entries:	4xM20x1,5 plastic blue cable glands (7-13 mm)						

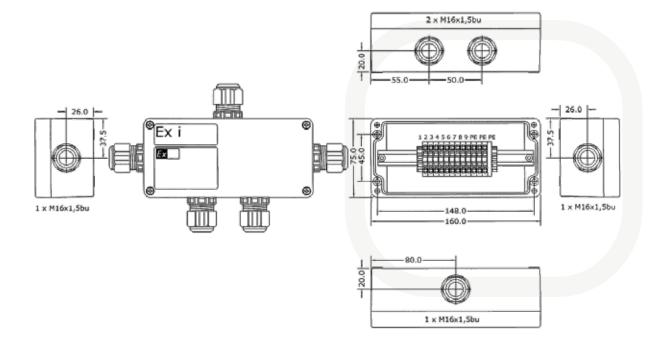


GRP EX I JUNCTION BOX - 5 ENTRIES / 9 TERMINALS

Zones 1, 2, 21, 22



TECHNICAL SPECIFICATIONS						
Marking:	(EX EV					
Certificate:	EU-Type Examination Certificate					
Housing:	Glass Reinforced Polyester (GRP)					
Dimensions:	160x75x55 mm					
Operating temperature:	-20°C to +40°C					
Terminals:	9 x 2,5mm ² + 3 PE					
Ingress protection:	IP66					
Cable entries:	5xM20x1,5 plastic blue cable glands (7-13 mm)					



GRP EX I JUNCTION BOX - 20 ENTRIES / 36 TERMINALS

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX JUNCTION BOXES

ZONES 1, 2 (gas) & 21, 22 (dust)



Ex i junction box for hazardous areas.

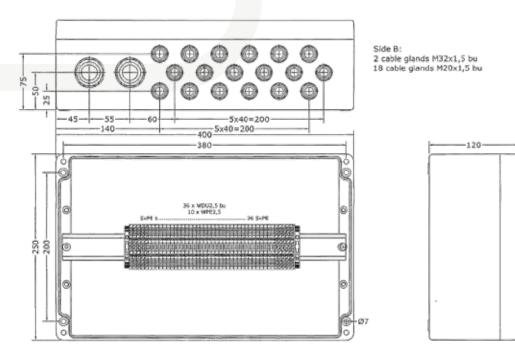
Made of glass fiber reinforced polyester.

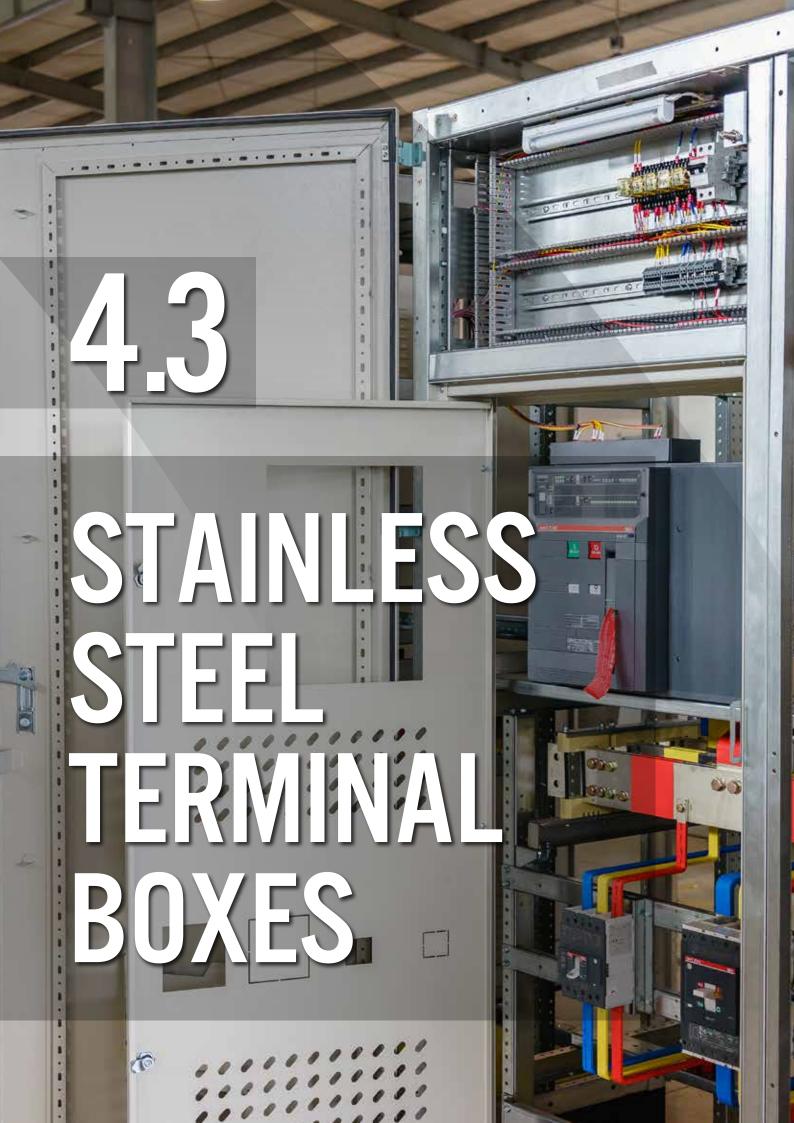
The box includes 2 cable entries with blue polyamide glands M32x1.5, 18 entries M20x1,5 and is equipped with 36x2.5mm² blue terminals + 10 earth terminals.



ITEM REFERENCES	
Designation:	Referencia:
A21-I1-04012+36T2,5+2M32+18M20	5A0814

TECHNICAL SPECIFICATIONS								
Marking:	(Ex eb [ia Ga] IIC T6 Gb II 2(1)D Ex tb [ia Da] IIIC T80°C Db							
Certificate:	EU-Type Examination Certificate							
Housing:	Glass Reinforced Polyester (GRP)							
Dimensions:	400x250x120 mm							
Operating temperature:	-20°C to +40°C							
Terminals:	36 x 2,5mm ² + 10 PE							
Ingress protection:	IP65							
Cable entries:	2xM32x1,5 plastic blue cable glands (13-21 mm) 18xM20x1,5 plastic blue cable glands (7-13 mm)							





CONFIGURABLE STAINLESS STEEL JUNCTION BOXES

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX JUNCTION BOXES

ZONES 1, 2 (gas) & 21, 22 (dust)

Custom configurable stainless steel ATEX junction boxes for installation in hazardous areas in zones 1, 2, 21 and 22.

The stainless steel enclosures are build in acordance to the individual request and will be equipped with terminals and cable glands.

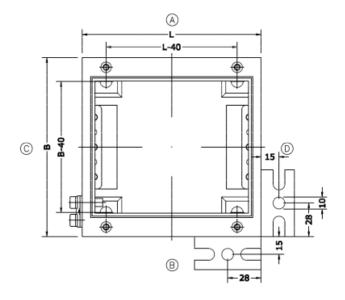


We don't supply empty "U" certified enclosures. These terminal boxes must be configured with the number of terminals and cable entries.



STANDARD SIZES (SMALL BOXES)													
Dimensions:	Maximum No. of terminals / current								Maximum	No. of ca	ble glands	;	
LxBxH	2,5 mm²	4 mm ²	6 mm²	10 mm ²	16 mm ²	35 mm²	M16x1,5 AB/CD	M20x1,5 AB/CD	M25x1,5 AB/CD	M32x1,5 AB/CD	M40x1,5 AB/CD	M50x1,5 AB/CD	M63x1,5 AB/CD
100x100x61 mm	10	0	0	0	0	0	3/2	2/1	1/0	0/0	0/0	0/0	0/0
150x150x81 mm	18	15	10	0	0	0	8/3	5/2	3/1	2/0	0/0	0/0	0/0
200x200x81 mm	25	20	15	12	0	0	12/3	7/2	4/1	3/0	2/0	0/0	0/0
300x200x81 mm	45	35	28	22	0	0	15/3	10/2	7/1	5/0	4/0	0/0	0/0
400x200x121 mm	62	51	38	31	25	0	30/9	27/6	17/3	14/2	7/1	5/1	3/1
300x300x121 mm	90	70	28	22	16	12	23/9	20/6	12/3	10/2	5/3	3/1	2/1

TECHNICAL SPECIFICATIONS							
Marking:	(X) II 2G Ex e IIC T4/T6 Gb (X) II 2(1)G Ex e[ia] IIC T6 Gb (X) II 2D Ex tb IIIC T80°C						
Certificate:	EU-Type Examination Certificate						
Operating temperature:	-50°C to +60°C (Depending on the used components and heat disapation)						
Material:	Stainless Steel 1.4301. Surface brushed (grain size 240)						
Design:	Screwed lid						
PE connection:	External, internal on base and lid						
Ingress protection:	IP66						
Accessories:	Wall mounting brackets						



CONFIGURABLE STAINLESS STEEL JUNCTION BOXES

Zones 1, 2, 21, 22

ATEX JUNCTION BOXES

ZONES 1, 2 (gas) & 21, 22 (dust)

Stainless steel ATEX junction boxes ideal for the connection of cables up to 300mm² in hazardous areas in zones 1 and 21.

The stainless steel enclosures are build in acordance to the individual request and will be equipped with terminals and cable glands.

Maximum electrical connection data: Rated voltage: 1100V Rated curent: 500A

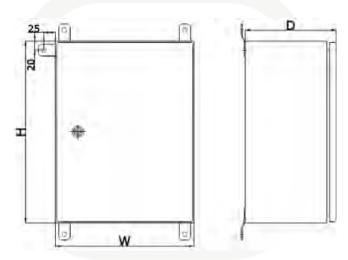
We don't supply empty "U" certified enclosures. These terminal boxes must be configured with the number of terminals and cable entries.



STANDARD SIZES (LARGE BOXES)													
Dimensions:	Maximum No. of terminals / current*						Maximum No. of cable glands						
WxHxD	35 mm²	70 mm²	95 mm²	120 mm ²	185 mm²	300 mm ²	M16 x1,5	M20 x1,5	M25 x1,5	M32 x1,5	M40 x1,5	M50 x1,5	M63 x1,5
300x300x200 mm	8/90	7/140	-	-	-	-	3/2	2/1	1/0	0/0	0/0	0/0	0/0
400x600x210 mm	18/65	16/100	14/120	13/145	-	-	8/3	5/2	3/1	2/0	0/0	0/0	0/0
600x400x210 mm	20/60	18/95	14/120	10/145	8/230	-	12/3	7/2	4/1	3/0	2/0	0/0	0/0
800x600x210 mm	54/40	32/75	26/120	24/115	10/220	10/285	15/3	10/2	7/1	5/0	4/0	0/0	0/0
1000x800x300 mm	72/40	46/75	36/120	34/115	13/230	13/290	30/9	27/6	17/3	14/2	7/1	5/1	3/1
1200x1000x400 mm	93/40	90/60	48/120	44/115	34/230	17/290	23/9	20/6	12/3	10/2	5/3	3/1	2/1

*Maximum current at Ta = 40°C.

TECHNICAL SPECIFICATIONS							
Marking:	(x) II 2G Ex e IIC T6 Gb (x) II 2(1)G Ex e[ia] IIC T6 Gb (x) II 2D Ex tb IIIC T80°C						
Certificate:	EU-Type Examination Certificate						
Operating temperature:	-50°C to +60°C (Depending on the used components and heat disapation)						
Material:	Stainless Steel 1.4301 (V2A) or 1.4404. Surface brushed (grain size 240)						
Lid screws:	Stainless Steel						
PE connection:	External, internal on base and lid						
Rated voltage:	max. 1100V						
Rated curent:	max. 500A						
Ingress protection:	IP66						
Accessories:	Wall mounting brackets						



STAINLESS STEEL JUNCTION BOX - 30 TERMINALS / 10 ENTRIES

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

Item No.:

5A0901

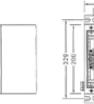


Designation:

A21-E4-02012+30T2,5+10M20

TECHNICAL SPECIFICATIONS							
II 2G Ex eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db							
EU-Type Examination Certificate							
-20°C to +55°C							
Stainless steel 316 L							
200x200x121 mm							
Screwed lid							
30 x 2,5mm ²							
External							
IP66							
Wall mounting brackets							
10xM20 (cable glands / plugs not included)							









 σ_{lc}

On top side: 5 holes for M20x1.5 cable gland

500



SWITCHES SERIE EFS

Zones 1, 2, 21, 22

ATEX SWITCHES

ZONES 1, 2 (gas) & 21, 22 (dust)

Explosion-proof breakers, selector switches, connecting switches series EFS.

Rotating type, with its knob on the front.

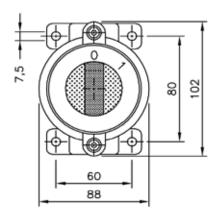
Suitable for currents up to 16A and voltages up to 690 VAC / 660 VDC.

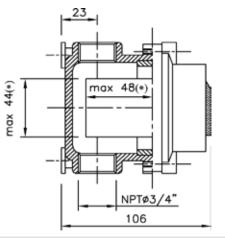


ITEM REFERENCES							
Designation:	Contact elements:	Item No.:					
EFS 116	Single pole switch	3G0101					
EFS 216	Double pole switch	3G0102					
EFS 316	Three pole switch	3G0103					
EFS 416	Four pole switch	3G0104					
EFS 116/C	Single pole three position changeover switch	3G0105					
EFS 216/C	Double pole three position changeover switch	3G0106					
EFS 316/C	Three pole three position changeover switch	3G0107					
EFS 116/D	Single pole two position changeover switch	3G0108					
EFS 216/D	Double pole two position changeover switch	3G0109					
EFS 316/D	Three pole two position changeover switch	3G0110					

TECHNICAL SPECIFICATIONS

Marking:	II 2G Ex d IIB T6-T5 Gb (IIC on request) II 2D Ex tb IIIC T85°C-T100°C Db
Certificate:	EU-Type Examination Certificate
Housing:	Aluminium (RAL 7000)
Rated voltage:	Max. 690 VAC / 660 VDC.
Rated current:	Max. 16A
Operating temperature:	-20°C to +40°C
Ingress protection:	IP66/67
Weight:	700 g
Cable entries:	2x3/4" NPT (cable glands not included)





SWITCHES SERIE EFS

Zones 1, 2, 21, 22

ATEX SWITCHES

ZONES 1, 2 (gas) & 21, 22 (dust)

CONTROL & CONNECTION EQUIPMENT 😨 🛧



3 or 4-pole ATEX certified switches suitable for installation in explosive atmospheres.

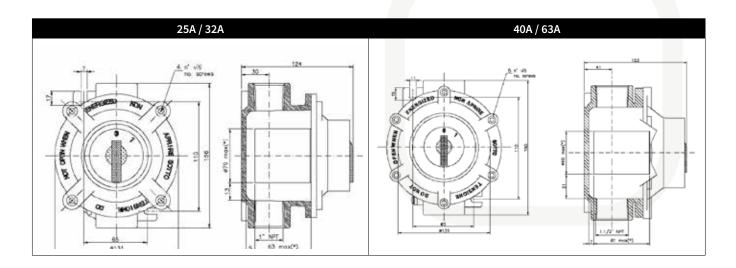
Manufactured in light aluminum alloy.

Suitable for currents up to 25A, 32A, 40A or 63A and voltages up to 690 VAC / 660 VDC.



ITEM REFERENCES									
Designation:	Contacts:	Ie/AC1=Ith2	kW AC3 (380-440V)	Weight:	Item No.:				
EFS 325	3 poles	25A	5,5 kW	1300 g	3G0201				
EFS 425	4 poles	25A	5,5 kW	1300 g	3G0202				
EFS 332	3 poles	32A	7,5 kW	1300 g	3G0203				
EFS 432	4 poles	32A	7,5 kW	1300 g	3G0204				
EFS 340	3 poles	40A	15 kW	2300 g	3G0301				
EFS 440	4 poles	40A	11 kW	2300 g	3G0302				
EFS 363	3 poles	63A	22 kW	2300 g	3G0303				
EFS 463	4 poles	63A	22 kW	2300 g	3G0304				

TECHNICAL SPECIFICATIONS			
Marking: II 2G Ex d IIB T6-T4 Gb (IIC version: on request) II 2D Ex tb IIIC T85°C-T135°C Db			
Certificate: EU-Type Examination Certificate			
Material: Aluminium (RAL 7000)			
Operating temperature: -20°C to +40°C			
Ingress protection: IP66 (IIB version) IP66/67 (IIC version)			
Cable entries:	25/32A - 2x1" NPT (cable glands not included) 40/63A - 2x1.1/2" NPT (cable glands not included)		



GENERAL PURPOSE SWITCH

Zones 1, 2, 21, 22

ATEX SWITCHES

ZONES 1, 2 (gas) & 21, 22 (dust)

Full catalogue available on our website: www.inpratex.com



General purpose switch for use in explosive atmospheres.

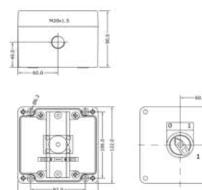
Made of Glass Reinforced Polyester (GRP).

Its dimensions allow a comfortable wiring for an quick installation.



ITEM REFERENCES					
Contacts: Designation:		Weight:	Item No.:		
		Switch A21 2NC + Armoured cable gland M20x1,5 brass (14-20,5 mm)	1,2 kg	4E0101	
		Switch A21 2NO + Armoured cable gland M20x1,5 brass (14-20,5 mm)	1,2 kg	4E0102	
		Switch A21 1NC+1NO + Armoured cable gland M20x1,5 brass (14-20,5 mm)	1,2 kg	4E0103	

TECHNICAL SPECIFICATIONS					
Marking:		II 2G Ex e IIC T6			
Certificate:	E	U-Type Examinati	on Cer	tificate	
Operating temperature:	-2	20°C to +40°C			
Ingress protection:	IF	P65			
Material:	G	Glass fibre reinforc	ed poly	vester (GRP)	
Nominal isolation voltage:	6	90 V			
	Voltage range:				
400 V	400 V 400 V		110 V	24 V	
		Uti	lizatio	n categories:	
AC-12		AC-15		DC-13	DC-13
			Curre	nt range:	
16 A 10 A			0,5 A	1 A	
Conventional thermal current: 16 A/+40 °C, 11 A/+60 °C					
Connection: Terminals 2,5 mm ²					
Operating cycle: 10 ⁶ commutations					



PADLOCKABLE LOAD BREAK SWITCH FOR 5,5KW MOTORS

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX SWITCHES

ZONES 1, 2 (gas) & 21, 22 (dust)

4-pole ATEX padlockable 0/1 or 0/1/2/3 disconnector with AC3 breaking capacity up to 5.5 kW at 400V.

Includes a brass plate and 2 or 3 brass or nickel-plated brass M20x1.5 cable glands for installation with armoured cables, or 2 or 3 polyamide cable glands for non-armoured cables.



ITEM REFERENCES					
Contacts:	Designation:	Weight:	Item No.:		
	0-1 Load break switch A21 Series + 2 brass cable glands for armoured cable M20x1,5 (13,2-20,5 mm)	1,5 kg	4E0201		
	0-1 Load break switch A21 Series + 3 brass cable glands for armoured cable M20x1,5 (13,2-20,5 mm)	1,5 kg	4E0202		
	0-1 Load break switch A21 Series + 2 plastic cable glands for non-armoured cable M20x1,5 (7-13 mm)	1 kg	4E0203		
	0-1 Load break switch A21 Series + 3 plastic cable glands for non-armoured cable M20x1,5 (7-13 mm)	1 kg	4E0204		
11 23 33 43	0-1-2-3 Load break switch A21 Series + 2 brass cable glands for armoured cable M20x1,5 (13,2-20,5 mm)	1,5 kg	4E0205		
12 24 34 44 12 24 34 44	0-1-2-3 Load break switch A21 Series + 2 Non-armoured cable glands M20x1,5 (7-13 mm)	1 kg	4E0206		

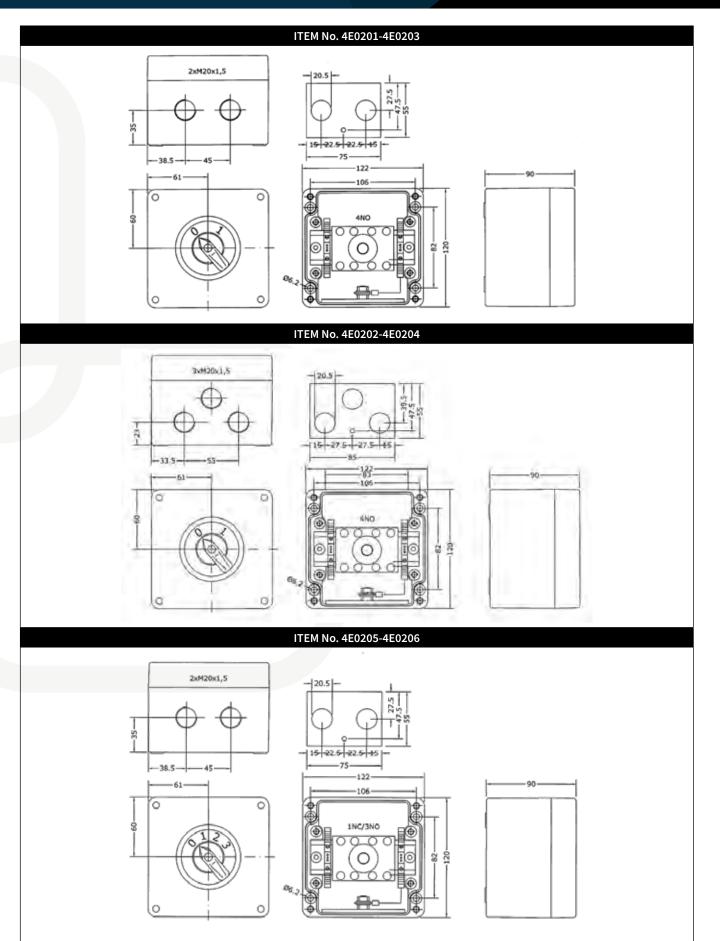
TECHNICAL SPECIFICATIONS			
Marking:	₩ II 2G Ex ed II T6 Gb II 2D Ex tb IIIC T80°C		
Certificate:	EU-Type Examination Certificate		
Operating temperature:	-20°C a +40°C		
Ingress protection:	IP65		
Material:	Glass fibre reinforced polyester (GRP)		
	Breaking capacity:		
P/AC-3/AC-23	AC-3	AC-23	
230V	3 ph/3 kW	1 ph/2,2 kW	
400V	3 ph/5,5 kW 1 ph/3 kW		
I_=AC-23/400 V/10 A			
	Utilization categories:		
AC-15	400 V	10 A	
AC-12	400 V	16 A	
DC-13	24 V	1 A	
Nominal isolation voltage:	U,=690V U,=450V		
Nominal pulse voltage:	U _{imp} =6 kV		
Rated short-circuit current (400V):	l _e =4 kA		
Short-circuit current:	max. 16A		
Connection:	Terminals 2,5 mm ²		

PADLOCKABLE LOAD BREAK SWITCH FOR 5,5KW MOTORS

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

CONTROL & CONNECTION EQUIPMENT 😰 🛧



REGOLUS EX SWITCH DISCONNECTORS

Zones 21, 22

ATEX SWITCHES

ZONES 21, 22 (dust)

ATEX switch disconnectors Regolus Ex for command and emergency in aluminum box painted in Grey and Yellow, suitable for use in Zone 21 and 22 (Dust) with rated current of 25-32-40-63A.

The enclosure is sealed so tight, that no combustible dust can enter. The surface temperature of the external enclosure is limited



Cable glands/plugs not included



ITEM REFERENCES						
Model: (SERIE SQ)	Poles:	Finishing:	Rated current:	AC 22A/690V:	AC 23A/400V	Item No.:
SQ025003DEX09	3P	EX09 Grey	32 A	25 A	25 A	3H0101
SQ025003DEX10	3P	EX10 Yellow	32 A	25 A	25 A	3H0102
SQ032003DEX09	3P	EX09 Grey	40 A	32 A	32 A	3H0103
SQ032003DEX10	3P	EX10 Yellow	40 A	32 A	32 A	3H0104
SQ040003DEXB9	3P	EX09 Grey	63 A	63 A	50 A	3H0105
SQ040003DEXB0	3P	EX10 Yellow	63 A	63 A	50 A	3H0106
SQ063003DEXB9	3P	EX09 Grey	80 A	80 A	75 A	3H0107
SQ063003DEXB0	3P	EX10 Yellow	80 A	80 A	75 A	3H0108
Model: (SERIE SE)						
SE630003BEXB9	3P	EXB9 Grey	63 A	63 A	40 A	3H0109
SE630004BEXB9	4P	EXB9 Grey	63 A	63 A	40 A	3H0110
SE630003BEXB0	3P	EX10 Yellow	63 A	63 A	40 A	3H0111
SE630004BEXB0	4P	EX10 Yellow	63 A	63 A	40 A	3H0112
SE800003BEXB9	3P	EXB9 Grey	80 A	80 A	55 A	3H0113
SE800004BEXB9	4P	EXB9 Grey	80 A	80 A	55 A	3H0114
SE800003BEXB0	3P	EX10 Yellow	80 A	80 A	55 A	3H0115
SE800004BEXB0	4P	EX10 Yellow	80 A	80 A	55 A	3H0116
SE100003BEXB9	3P	EXB9 Grey	85 A	85 A	67 A	3H0117
SE100004BEXB9	4P	EXB9 Grey	85 A	85 A	67 A	3H0118
SE100003BEXB0	3P	EX10 Yellow	85 A	85 A	67 A	3H0119
SE100004BEXB0	4P	EX10 Yellow	85 A	85 A	67 A	3H0120

TECHNICAL SPECIFICATIONS				
Marking:	🕢 II 2D Ex tb IIIC T85°C Db			
Certificate:	EU-Type Examination Certificate			
Operating temperature:	-20°C to +55°C			
Ingress protection:	IP65			
Housing:	Aluminium	Colour: Yellow (PANTONE 102C) Grey (RAL 7035)		
Cable entries:	SQ 025 - 032	SQ 040-063 and SE 63-80-100		
	Upper side: 1 Hole M25, 1 Hole M20 Bottom side: 1 Hole M25, 1 Hole M20	Upper side: 1 Hole M40 Bottom side: 1 Hole M40		
WIRING DIAGRAM 3 POLES 4 POLES				

FOOT SWITCHES

Zones 1, 2, 21, 22

ATEX SWITCHES

Full catalogue available on our website: www.inpratex.com

ZONES 1, 2 (gas) & 21, 22 (dust)

The XPEW foot switch is designed to be operated by foot action so that operators can focus their hands and eyes on other tasks.

They are designed for explosive atmospheres gas/vapours or dust

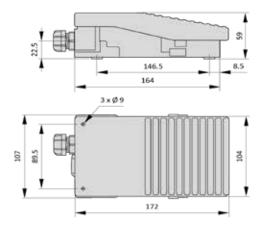
and meet the highest levels of protection.



Useful for maintenance operations.

ITEM REFERENCES					
Model: Control unit type / contact: Colour: Item No.:					
XPEWM110	1 step / 1 x NC + NO	Blue	3F0101		
XPEWM111	1 step / 2 x NC + NO	Blue	3F0102		
XPEWM211	2 steps / 2 x NC + NO	Blue	3F0103		
XPEWR110	1 step / 1 x NC + NO	Orange	3F0104		
XPEWR111	1 step / 2 x NC + NO	Orange	3F0105		
XPEWR211	2 steps / 2 x NC + NO	Orange	3F0106		

	TECHNICAL SPECIFICATIONS		
Marking:	II 2GD Ex d e IIC T6 Gb or Ex tb IIIC T85°C Db		
Certificate:	EU-Type Examination Certificate		
Housing:	Zamac, carbon steel		
Operating temperature:	-20°C to +60°C		
Features of the contact block:	Umax=250 V Imax=3 A		
Mechanical endurance:	Actuator: 5 million operations - Contact block: 1 million operations		
Ingress protection:	P65		
Cable entries:	LxPG16 cable gland		



EX D MICROSWITCH M12 TYPE AS1

Zones 1, 2

Full catalogue available on our website: www.inpratex.com

ATEX LIMIT SWITCHES

ZONES 1, 2 (gas)



The cylindrical M12 microswitches are used in potential explosive athmospheres zone 1/2, wherever the switching status must be recorded accurately without using an additional intrinsically safe amplifier.

Because of the goldplated contacts, the M12 microswitches can also directly connected to intrinsically safe circuits. Due to the cylindrical design, they can be precisely adjusted by the M12x1 fine thread or can be installed in the usual mounting kits for inductive proximity switches of the size M12.



Designation: Wire / Cable Lenght: Item No.:					
For use installed inside separate certified enclosures with single cores; 3x 0,5 mm ²					
	AS1-A7-500028		Single wires 14 cm	500028	
	AS1-A7-500024	1	Single wires 16 cm	500024	
	AS1-A7-50002	5	Single wires 26 cm	500025	
	AS1-A7-500020	5	Single wires 1 m	500026	
		For direct installation	on on machines with cable 3 x 0,5 mm ²		
	AS1-L7-500027		Cable 3 m	500027	
	AS1-L7-500030)	Cable 5 m	500030	
	AS1-L7-500031	L	Cable 10 m	500031	
	1	тесни	NICAL SPECIFICATIONS		
Mauking					
Marking:		😢 II 2G Ex db IIC T6 Gb		Contacts:	
Certificate:			U-Type Examination Certificate		
Material:		-	ss fiber reinforced polyamide		
Switch contact:		1 Changeover	2 = black "NC"		
Mechanical life time		200.000 operations		4 = grey "NO"	
Operating temperature:		up to 4 A: -20°C to +60°C from 4 to 5 A: -20°C to +40	2 4		
Design:		Cylindrial design M12x1.	L ₁		
Variants:		with single core 3 x 0,5 mm ² with cable 3 x 0,5 mm ²			
Ingress protection:		min. IP54		i	
			CONTACT ELEMENT		
Switching voltage A	250 V	SWITCHING CURRENT			
Switching voltage A	2 2 3 U V	5 A / AC-12	4 A / AC-12	1 A / AC-13/15	
Switching voltage D	~ 24 V	SWITCHING CURRENT			
Switching voltage DC 24 V		5 A / DC-12 4 A / DC-12		0,6 A / DC-13	
Operating force: 1,7 N					
Electr. life time: 2 x 10 ⁶					
Contact: Goldplated silver					
Switching frequency: max. 5/s					
		10g (500 Hz) (EN60068-1-	•1		

STAINLESS STEEL PUSH BUTTON SET STRONG - SMART

Zones 1, 2, 21, 22

ATEX SWITCHES

ZONES 1, 2 (gas) & 21, 22 (dust)

With the stainless steel push-button actuators, the cylindrical microswitches AS1 can be installed in hazardous areas zone 1/21.

There are two actuators available according to local requirements: Due to its flat design and rounded edges, the SMART actuator offers little surface for external damage or dirt deposits. Due to its higher design, the STRONG actuator makes it possible to use the switch in enclosures with a depth of 60 mm.

The delivery includes a self-adhesive, black label and a lock nut. Other labels are available in red, yellow, green, blue and white.

By means of a suitable protective sleeve, the switches can also be used without a protective housing in zone 1.



Ex Push Button STRONG (without sleeve)



Ex Push Button SMART (with sleeve)



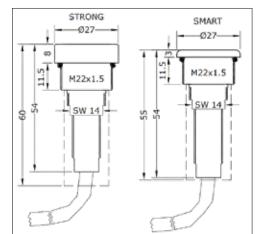
ITEM REFERENCES				
Model:	Item No.:			
STRONG SET 10m cable	219475			
STRONG SET 3m cable	219476			
SMART SET 10m cable, sleeve and locknut	218179			
SMART SET 3m cable, sleeve and locknut	219474			



TECHNICAL SPECIFICATIONS			
Marking Actuator AK1-:	II 2G Ex eb IIC Gb		
Marking Switch AS1-:	(E) II 2G Ex db IIC T6 Gb -40°C to +60°C		
Certificate:	EU-Type Examination Certificate		
Electric	cal data		
Operating voltage:	24 VDC / 230 VAC		
Rated current:	DC 12 / AC 12 max. 5 A		
Electrical connection:	3x0,5 mm ² , Ø 5.4 mm 1 = C / 2 = NC / 3 = NO		
Mechan	ical data		
Housing:	Stainless steel 1.4305		
Sealing:	EPDM		
Ingress protection:	IP65		
Mounting hole:	22,0 22,3 mm / M 22x1,5		
Torque:	8 Nm		
Max wall thickness:	1,0 7,0 mm		
Weight:	600 g (10m cable)		

CONTACTS	
1 = brown "C"	Ť 1
2 = black "NC"	L_ L_ I
4 = grey "NO"	l L

ACCESSORIES		
Description:	Item No.:	
Earthing set (earth lug + nut)	216742	
Red label (self-adhesive)	106457	
Green label (self-adhesive)	106458	
Yellow label (self-adhesive)	106460	
Blue label (self-adhesive)	106461	
White label (self-adhesive)	106462	





CONFIGURABLE GRP CONTROL STATIONS

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX CONTROL STATIONS

ZONES 1, 2 (gas) & 21, 22 (dust)



Glass fibre reinforced polyester (GRP) control boxes certified for application in hazardous area zones 1,2 and zones 21,22.

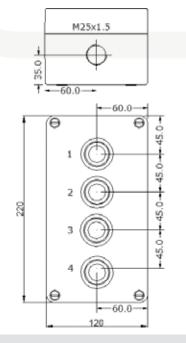
These local control panels can be equipped with up to 4 integration components accordingf to customer requirements.

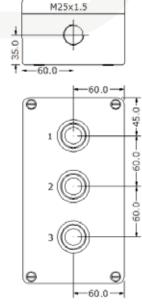
The low side walls of the housing allow for fast integration and connection on site.

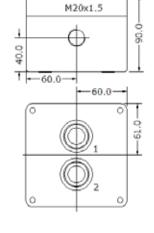


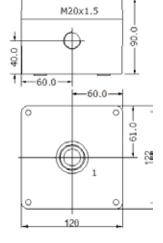
ITEM REFERENCES	
Designation:	Item No.:
Single device enclosure	A21-E1-01209 (1)
Double device enclosure	A21-E1-01209 (2)
Triple device enclosure	A21-E1-02209 (3)
Four device enclosure	A21-E1-02209 (4)

TECHNICAL SPECIFICATIONS	
Marking:	Ex ed IIC T6 Gb II 2D Ex tb IIIC T80°C
Certificate:	EU-Type Examination Certificate
Operating temperature:	-20°C to +40°C
Ingress protection:	IP65
Material:	Glass fibre reinforced polyester (GRP)









CONTROL STATIONS - SIGNAL AND CONTROL UNITS

Zones 1, 2, 21, 22

PUSHBUTTON SELECTION TABLE		
Element:	Designation:	Item No.:
	Pushbutton 1NO+1NC Tags: White (bw), Black (bb), Red (br), Green (bg), Yellow (by)	bw 1NO+1NC bb 1NO+1NC br 1NO+1NC bg 1NO+1NC by 1NO+1NC
	Pushbutton 2NC Tags: White (bw), Black (bb), Red (br), Green (bg), Yellow (by)	bw 2NC bb 2NC br 2NC bg 2NC bg 2NC by 2NC
	Pushbutton 2NO Tags: White (bw), Black (bb), Red (br), Green (bg), Yellow (by)	

EMERGENCY-STOP PUSHBUTTON SELECTION TABLE		
Element:	Designation:	Item No.:
HOT AUG PULL TO DO DO	Emergency-stop pushbutton (e) 1NO+1NC Lockable emergency-stop pushbutton (ek)	e 1NO+1NC ek 1NO+1NC
*GENCY S	Emergency-stop pushbutton (e) 2NC Lockable emergency-stop pushbutton (ek)	e 2NC ek 2NC
	Emergency-stop pushbutton (e) 2NO Lockable emergency-stop pushbutton (ek)	e 2NO ek 2NO

	SELECTOR SWITHC SELECTION TABLE	
Element:	Designation:	Item No.:
	Selector switch I-0 (2w) 1NO+1NC Selector switch I-0-II (3wl) [I+II locked] Selector switch I-0-II (3wm) [I+II non-locked] Selector switch I-0-II (3wem) [I locked, II non-locked] Selector switch I-0-II (3wme) [I non-locked, II locked]	2w 1NO+1NC 3wl 1NO+1NC 3wm 1NO+1NC 3wem 1NO+1NC 3wme 1NO+1NC
	Selector switch I-0 (2w) 2NC Selector switch I-0-II (3wl) [I+II locked] Selector switch I-0-II (3wm) [I+II non-locked] Selector switch I-0-II (3wem) [I locked, II non-locked] Selector switch I-0-II (3wme) [I non-locked, II locked]	2w 2NC 3wl 2NC 3wm 2NC 3wem 2NC 3wme 2NC
	Selector switch I-0 (2w) 2NO Selector switch I-0-II (3wl) [I+II locked] Selector switch I-0-II (3wm) [I+II non-locked] Selector switch I-0-II (3wem) [I locked, II non-locked] Selector switch I-0-II (3wme) [I non-locked, II locked]	2w 2NO 3wl 2NO 3wm 2NO 3wem 2NO 3wee 2NO

CONTROL STATIONS - SIGNAL AND CONTROL UNITS

Full catalogue available on our website: www.inpratex.com

INDICATOR LIGHT SELECTION TABLE		
Element:	Designation:	Item No.:
	Indicator light Colours: White (sw), Red (sr), Green (sg), Blue (sb), Yellow (sy)	sw sr sg sb sy

LUMINOUS PUSHBUTTON SELECTION TABLE		
Element:	Designation:	Item No.:
	Luminous pushbutton 1NO Colours: White (sw), Red (sr), Green (sg), Blue (sb), Yellow (sy)	sw+1NO sr+1NO sg+1NO sb+1NO sy+1NO
	Luminous pushbutton 1NC Colours: White (sw), Red (sr), Green (sg), Blue (sb), Yellow (sy)	sw+1NC sr+1NC sg+1NC sb+1NC sy+1NC

INTERNAL CONTACT MODULE			
Marking:	Ex ll 2G Ex de IIC Gb		
Certificate:	EU-Type Examination Certificate		
Operating temperature:	-55°C to +60°C		
Ingress protection:	IP20		
Nominal isolation voltage:	690 V		
	Voltage	e range:	
400 V	400 V	110 V	24 V
	Utilization	categories:	
AC-12	AC-15	DC-13	DC-13
Current range:			
16 A	10 A	0,5 A	1A
Conventional thermal current:	l current: 16 A/+40 °C, 11 A/+60 °C		
Connection:	Terminals 2,5 mm ²		
Operating cycle:	10 ⁶ commutations		

CONTROL STATIONS - SIGNAL AND CONTROL UNITS

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

INTERNAL MODULE FOR INDICATOR LIGHTS	
	X1 X2
Marking:	II 2G Ex de IIC Gb I M2 Ex de I Mb
Certificate:	EU-Type Examination Certificate
Operating temperature:	-55 °C to +50 °C / +60 °C (AC/DC 12V to 24V)
Ingress protection:	IP20
Nominal isolation voltage:	300 V
Voltage range:	AC 12 V to 250 V ($T_a \le +50^{\circ}C$) DC 12 V to 60 V ($T_a \le +50^{\circ}C$) AC/DC 12 V to 24 V ($T_a \le +60^{\circ}C$)
Power:	<1W
Lamp:	LED (Red, Green, Yellow, White, Blue)
Connection:	Terminals 2,5 mm ²
Operating cycle:	>10 ⁵ hours

INTERNAL MODULE FOR INDICATOR LIGHTS WITH AUXILIARY CONTACT		
	$\begin{bmatrix} 1 & x_1 \\ 1 & x_1 \\ 2 & x_2 \end{bmatrix} \begin{bmatrix} 3 & x_1 \\ 1 & x_1 \\ 1 & x_1 \\ 1 & x_1 \end{bmatrix}$	
Marking:	II 2G Ex de IIC	
Certificate:	EU-Type Examination Certificate	
Operating temperature:	-55 °C to +50 °C / +60 °C (AC/DC 12V to 24V)	
Ingress protection:	IP20	
Nominal isolation voltage:	300 V	
Voltage range:	AC 12 V to 250 V ($T_a \le +50^{\circ}C$) DC 12 V to 60 V ($T_a \le +50^{\circ}C$) AC/DC 12 V to 24 V ($T_a \le +60^{\circ}C$)	
Power:	<1W	
Lamp:	LED (Red, Green, Yellow, White, Blue)	
Contact:		
Voltage range / Utilization category / Consumption		
230 V AC / AC-15 / 1A 24V DC / DC-13 / 0,25 A		
Connection:	Terminals 2,5 mm ²	
Operating cycle:	>10 ⁵ hours / > 10 ⁵ commutations	

SINGLE PUSHBUTTON

Zones 1, 2, 21, 22

Material: Cable entries:

ATEX CONTROL STATIONS

ZONES 1, 2 (gas) & 21, 22 (dust)

Ex e Pushbuttton made of glass fibre reinforced polyester for application in hazardous areas. Tags: white (bw), black (bb), red (br), green (bg) or yellow (by).

Can be supplied with M20 cable glands for armored or non-armored cable.

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EU-Type Examination Certificate

Full catalogue available on our website: www.inpratex.com

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	ITEM REFERENCES		
Design	ation:		Item No.:
		Pushbutton 1NO+1NC - M20 Plastic cable gland	3J0601
		Pushbutton 2NC - M20 Plastic cable gland	3J0602
	-	Pushbutton 2NO - M20 Plastic cable gland	3J0603
		Pushbutton 1NO+1NC - M20 Brass Cable Gland	3J0604
-	Pushbutton 2NC - M20 Brass Cable Gland	3J0605	
	Pushbutton 2NO - M20 Brass Cable Gland	3J0606	
	100	Pushbutton 1NO+1NC - M20 Nickel-Plated Brass Cable Gland	3J0607
-	Pushbutton 2NC - M20 Nickel-Plated Brass Cable Gland	3J0608	
	1	Pushbutton 2NO - M20 Nickel-Plated Brass Cable Gland	3J0609

	TECHNICAL SPECIFICATIONS	
Marking:	II 2G Ex ed IIC T6 Gb II 2D Ex tb IIIC T80°C	
Certificate: EU-Type Examination Certificate		
Operating temperature:	-20°C to +40°C	
Ingress protection:	IP65	

Glass fibre reinforced polyester (GRP)

1xM20x1,5

INTERNAL CONTACT MODULE				
		$\begin{bmatrix} 13 & 23 \\ - & - & - \\ 14 & 24 \\ \end{bmatrix} \begin{bmatrix} 11 & 21 \\ - & - & - \\ 12 & 22 \\ 12 & 22 \\ 14 & 24 \\ 12 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 &$		
Marking:	Marking: Marking: II 2G Ex de IIC Gb I M2 Ex de I Mb			
Certificate:	ficate: EU-Type Examination Certificate			
Operating temperature:	-55°C to +60°C			
Ingress protection:	IP20			
Nominal isolation voltage:	ominal isolation voltage: 690 V			
	Voltage range:			
400 V	400 V	110 V	24 V	
	Utilization categories:			
AC-12	AC-12 AC-15 DC-13 DC-13			
	Current range:			
16 A	16 A 10 A 0,5 A 1 A			

Zones 1, 2, 21, 22

ATEX CONTROL STATIONS

ZONES 1, 2 (gas) & 21, 22 (dust)



Ex e indicator lights made of glass fibre reinforced polyester for application in hazardous areas. Colours: White (sw), Red (sr), Green (sg), Blue (sb), Yellow (sy)

Can be supplied with M20 cable glands for armored or non-armored cable.



ITEM REFERENCES			
Designation:		Cable glands:	Item No.:
	Indicator light - WHITE		3J0801
24	Indicator light - RED		3J0802
	Indicator light - GREEN	M20 Plastic cable gland	3J0803
	Indicator light - BLUE		3J0804
•	Indicator light - YELLOW		3J0805
	Indicator light - WHITE		3J0806
	Indicator light - RED		3J0807
	Indicator light - GREEN	M20 Brass Cable Gland	3J0808
	Indicator light - BLUE		3J0809
2	Indicator light - YELLOW		3J0810
	Indicator light - WHITE		3J0811
	Indicator light - RED		3J0812
	Indicator light - GREEN	M20 Nickel-Plated Brass Cable Gland	3J0813
	Indicator light - BLUE		3J0814
0	Indicator light - YELLOW		3J0815

TECHI	SPECIF	ICATI	ONS

Marking:	II 2G Ex ed IIC T6 Gb II 2D Ex tb IIIC T80°C
Certificate:	EU-Type Examination Certificate
Operating temperature:	-20°C to +40°C
Ingress protection:	IP65
Material:	Glass fibre reinforced polyester (GRP)
Cable entries:	1xM20x1,5

	INTERNAL MODULE FOR INDICAT	TOR LIGHTS
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Marking:	II 2G Ex de IIC Gb I M2 Ex de I Mb
Certificate:	EU-Type Examination Certificate
Operating temperature:	-55 °C to +50 °C / +60 °C (AC/DC 12V to 24V)
Ingress protection:	IP20
Nominal isolation voltage:	300 V
Voltage range:	AC 12 V to 250 V ($T_a \le +50^{\circ}C$) / DC 12 V to 60 V ($T_a \le +50^{\circ}C$) / AC/DC 12 V to 24 V ($T_a \le +60^{\circ}C$)
Power:	<1W
Lamp:	LED (Red, Green, Yellow, White, Blue)
Connection:	Terminals 2,5 mm ²
Operating cycle:	>10 ^s hours

3 WAY SELECTOR SWITCH I-O-II

Zones 1, 2, 21, 22

ATEX CONTROL STATIONS

ZONES 1, 2 (gas) & 21, 22 (dust)

Ex e 3 way Selector Switch made of glass fibre reinforced polyester for application in hazardous areas.

Can be supplied with M20 cable glands for armored or non-armored cable.

<mark>∕€x</mark> ∕	Œ
EU-Type Examina	ation Certificate

Full catalogue available on our website: www.inpratex.com

ITEM REFERENCES			
	Designation:		Item No.:
		3 Way Selector Switch I-0-II (latching I+II) 1NO+1NC - M20 Plastic cable gland	3J0701
	E.	3 Way Selector Switch I-0-II (latching I+II) 2NC - M20 Plastic cable gland	3J0702
	-	3 Way Selector Switch I-0-II (latching I+II) 2NO - M20 Plastic cable gland	3J0703
	-	3 Way Selector Switch I-0-II (latching I+II) 1NO+1NC - M20 Brass Cable Gland	3J0704
	-	3 Way Selector Switch I-0-II (latching I+II) 2NC - M20 Brass Cable Gland	3J0705
	8	3 Way Selector Switch I-0-II (latching I+II) 2NO - M20 Brass Cable Gland	3J0706
		3 Way Selector Switch I-0-II (latching I+II) 1NO+1NC - M20 Nickel-Plated Brass Cable Gland	3J0707
Ŧ		3 Way Selector Switch I-0-II (latching I+II) 2NC - M20 Nickel-Plated Brass Cable Gland	3J0708
	8	3 Way Selector Switch I-0-II (latching I+II) 2NO - M20 Nickel-Plated Brass Cable Gland	3J0709

TECHNICAL SPECIFICATIONS		
Marking: II 2G Ex ed IIC T6 Gb II 2D Ex tb IIIC T80°C		
Certificate: EU-Type Examination Certificate		
Operating temperature:	ture: -20°C to +40°C	
Ingress protection: IP65		
Material:	Glass fibre reinforced polyester (GRP)	
Cable entries:	1xM20x1,5	

INTERNAL CONTACT MODULE				
	$\begin{bmatrix} 13 & 23 \\ 1 & -7 \\ 14 & 24 \\ 12 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 $			
Marking:	EX II 2G Ex de IIC Gb			
Certificate:	EU-Type Examination Certificate			
Operating temperature:	-55°C to +60°C			
Ingress protection:	IP20			
Nominal isolation voltage:	690 V			
	Voltage	e range:		
400 V	400 V	110 V	24 V	
	Utilization categories:			
AC-12	AC-15	DC-13	DC-13	
Current range:				
16 A	10 A	0,5 A	1A	

Zones 1, 2, 21, 22

ATEX CONTROL STATIONS

ZONES 1, 2 (gas) & 21, 22 (dust)

Ex e Emergency Stop mushroom button made of glass fibre reinforced polyester for application in hazardous areas.

Equipped with M20 brass or nickel-plated brass cable glands for installation with armoured cable.



ITEM REFERENCES				
Designation:		Item No.:		
NOT AUG PULL do THE RELEASE JS POENCY S	Emergency Mushroom Button (e) 1NO+1NC - M20 Brass Cable Gland	3J0101		
	Emergency Mushroom Button (e) 2NC - M20 Brass Cable Gland	3J0102		
	Emergency Mushroom Button (e) 2NO - M20 Brass Cable Gland	3J0103		
	Emergency Mushroom Button (e) 1NO+1NC - M20 Nickel-Plated Brass Cable Gland	3J0104		
	Emergency Mushroom Button (e) 2NC - M20 Nickel-Plated Brass Cable Gland	3J0105		
	Emergency Mushroom Button (e) 2NO - M20 Nickel-Plated Brass Cable Gland	3J0106		

TECHNICAL SPECIFICATIONS			
Marking:	II 2G Ex ed IIC T6 Gb		
Certificate:	EU-Type Examination Certificate		
Operating temperature:	-20°C to +40°C		
Ingress protection:	IP65		
Material:	Glass fibre reinforced polyester (GRP)		
Cable entries:	1xM20x1,5 Brass or nickel-plated brass cable gland (14-20,5 mm)		

INTERNAL CONTACT MODULE				
	$\begin{bmatrix} 13 & 23 \\ - & - & - \\ 14 & 24 \\ 112 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\ 14 & 22 \\$			
Marking:	II 2G Ex de IIC Gb			
Certificate:	EU-Type Examination Certificate			
Operating temperature:	-55°C to +60°C			
Ingress protection:	IP20			
Nominal isolation voltage:	690 V			
	Voltage range:			
400 V	400 V	110 V	24 V	
	Utilization categories:			
AC-12	AC-15	DC-13	DC-13	
Current range:				
16 A	10 A	0,5 A	1 A	

EMERGENCY STOP WITH PROTECTION HOOD - ARMOURED CABLE

Zones 1, 2, 21, 22

ATEX CONTROL STATIONS

ZONES 1, 2 (gas) & 21, 22 (dust)

Ex e Emergency Stop mushroom button with protection hood made of glass fibre reinforced polyester for application in hazardous areas.

Equipped with M20 brass or nickel-plated brass cable glands for installation with armoured cable.

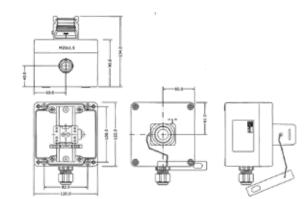
3,2x6mm metal protection in stainless steel SS316.



ITEM REFERENCES				
Designation:		Item No.:		
	Emergency Mushroom Button w/ Protection Hood 1NO+1NC - M20 Brass Cable Gland	3J0107		
NOT AUG PULL POLEASE OD POENCY O	Emergency Mushroom Button w/ Protection Hood 2NC - M20 Brass Cable Gland	3J0108		
	Emergency Mushroom Button w/ Protection Hood 2NO - M20 Brass Cable Gland	3J0109		
	Emergency Mushroom Button w/ Protection Hood 1NO+1NC - M20 Nickel-Plated Brass Cable Gland	3J0110		
	Emergency Mushroom Button w/ Protection Hood 2NC - M20 Nickel-Plated Brass Cable Gland	3J0111		
	Emergency Mushroom Button w/ Protection Hood 2NO - M20 Nickel-Plated Brass Cable Gland	3J0112		

INTERNAL CONTACT MODULE			
	$\begin{bmatrix} 13 & 23 \\ -4 & -4 \\ 14 & 24 \\ \end{bmatrix} \begin{bmatrix} 11 & 21 \\ -4 & -4 \\ 12 & 22 \\ 14 & 22 \\ \end{bmatrix} \begin{bmatrix} 13 & 21 \\ -4 & -4 \\ -4 & -4 \\ 14 & 22 \\ \end{bmatrix}$		
Marking:	II 2G Ex de IIC Gb		
Certificate:	EU-Type Examination Certificate		
Operating temperature:	-55°C to +60°C		
Ingress protection:	IP20		
Nominal isolation voltage:	690 V		
	Voltage	e range:	
400 V	400 V	110 V	24 V
Utilization categories:			
AC-12	AC-15	DC-13	DC-13
Current range:			
16 A	10 A	0,5 A	1 A

TECHNICAL SPECIFICATIONS			
Marking:	II 2G Ex ed IIC T6 Gb		
Certificate: EU-Type Examination Certificate			
Operating temperature:	-20°C to +40°C		
Ingress protection: IP65			
Material: Glass fibre reinforced polyester (GRP)			
Cable entries:	1xM20x1,5 Brass or nickel-plated brass cable gland (14-20,5 mm)		



Zones 1, 2, 21, 22

ATEX CONTROL STATIONS

ZONES 1, 2 (gas) & 21, 22 (dust)



Ex e Emergency Stop mushroom button made of glass fibre reinforced polyester for application in hazardous areas.

Equipped with M20 polyamide cable glands for installation with unarmoured cable.



ITEM REFERENCES				
Designation:	Item No.:			
201 446 12	Emergency Mushroom Button (e) 1NO+1NC - M20 Plastic cable gland	3J0201		
	Emergency Mushroom Button (e) 2NC - M20 Plastic cable gland	3J0202		
TRENCY	Emergency Mushroom Button (e) 2NO - M20 Plastic cable gland	3J0203		

TECHNICAL SPECIFICATIONS			
Marking:	II 2G Ex ed IIC T6 Gb II 2D Ex tb IIIC T80°C		
Certificate:	EU-Type Examination Certificate		
Operating temperature:	-20°C to +40°C		
Ingress protection:	IP65		
Material:	Glass fibre reinforced polyester (GRP)		
Cable entries:	1xM20x1,5 Plastic cable gland (7 - 13 mm)		

INTERNAL CONTACT MODULE				
	$\begin{bmatrix} 13 & 23 \\ - & - & - \\ 14 & 24 \\ \end{bmatrix} \begin{bmatrix} 11 & 21 \\ - & - & - \\ 12 & 22 \\ \end{bmatrix} \begin{bmatrix} 14 & 22 \\ - & - & - \\ 14 & 22 \\ \end{bmatrix}$			
Marking:	II 2G Ex de IIC Gb			
Certificate:	EU-Type Examination Certificate			
Operating temperature:	-55°C to +60°C			
Ingress protection:	IP20			
Nominal isolation voltage:	690 V			
	Voltage	e range:		
400 V	400 V	110 V	24 V	
	Utilization categories:			
AC-12	AC-15	DC-13	DC-13	
Current range:				
16 A	10 A	0,5 A	1 A	

EMERGENCY STOP WITH PROTECTION HOOD - NON ARMOURED CABLE

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX CONTROL STATIONS

ZONES 1, 2 (gas) & 21, 22 (dust)



Ex e Emergency Stop mushroom button with protection hood made of glass fibre reinforced polyester for application in hazardous areas.

Equipped with M20 brass or nickel-plated brass cable glands for installation with unarmoured cable.

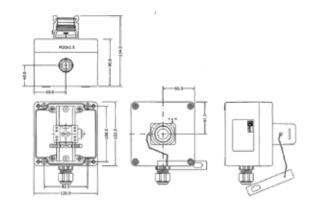
3,2x6mm metal protection in stainless steel SS316.



	ITEM REFERENCES	
Designation:		Item No.:
101 Apr	Emergency Mushroom Button w/ Protection Hood 1NO+1NC - M20 Plastic cable gland	3J0204
· · · · · · · · · · · · · · · · · · ·	Emergency Mushroom Button w/ Protection Hood 2NC - M20 Plastic cable gland	3J0205
OENCS-	Emergency Mushroom Button w/ Protection Hood 2NO - M20 Plastic cable gland	3J0206

Marking:	EX II 2G Ex de IIC Gb			
Certificate:	EU-Type Examination Certificate			
Operating temperature:	-55°C to +60°C			
Ingress protection:	IP20			
Nominal isolation voltage:	690 V			
	Voltage	range:		
400 V	400 V	110 V	24 V	
Utilization categories:				
AC-12	AC-15	DC-13	DC-13	
Current range:				
16 A	10 A	0,5 A	1 A	

TECHNICAL SPECIFICATIONS				
Marking:	II 2G Ex ed IIC T6 Gb			
Certificate:	EU-Type Examination Certificate			
Operating temperature:	-20°C to +40°C			
Ingress protection:	IP65			
Material:	Glass fibre reinforced polyester (GRP)			
Cable entries:	1xM20x1,5 Plastic cable gland (7 - 13 mm)			



Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX CONTROL STATIONS

ZONES 1, 2 (gas) & 21, 22 (dust)

CONTROL & CONNECTION EQUIPMENT 😨 🛧



Ex e Potentiometer made of glass fibre reinforced polyester for application in hazardous areas.

Can be supplied with M20 cable glands for armored or non-armored cable.



ITEM REFERENCES						
Designation:			Item No.:			
	Potentiometer 1 kOhm (scale 010)	M20 Plastic cable gland	3J0901			
	Potentiometer 2,2 kOhm (scale 010)		3J0902			
	Potentiometer 4,7 kOhm (scale 010)		3J0903			
	Potentiometer 10 kOhm (scale 010)		3J0904			
	Potentiometer 1 kOhm (scale 010)	M20 Brass Cable Gland	3J0905			
	Potentiometer 2,2 kOhm (scale 010)		3J0906			
	Potentiometer 4,7 kOhm (scale 010)		3J0907			
	Potentiometer 10 kOhm (scale 010)		3J0908			
ب ج	Potentiometer 1 kOhm (scale 010)	M20 Nickel-Plated Brass Cable Gland	3J0909			
	Potentiometer 2,2 kOhm (scale 010)		3J0910			
	Potentiometer 4,7 kOhm (scale 010)		3J0911			
	Potentiometer 10 kOhm (scale 010)		3J0912			

TECHNICAL SPECIFICATIONS					
Marking:	II 2G Ex ed IIC T6 Gb II 2D Ex tb IIIC T80°C				
Certificate:	EU-Type Examination Certificate				
Operating temperature:	-20°C to +40°C				
Ingress protection:	IP65				
Material:	Glass fibre reinforced polyester (GRP)				
Cable entries:	1xM20x1,5				

INTERNAL CONTACT MODULE					
Marking:	EX II 2G Ex de IIC	Rotation:	mech. 285° -5° electr. about approx. 250°		
Certificate:	EU-Type Examination Certificate	Rated output:	max. 1 W at T_a < +40 °C		
Operating temperature:	-55°C to +60°C	Resistor material:	carbon film on ceramics		
Ingress protection:	IP20	Torque (beginning):	0.5 to 1.5 Ncm		
Rated insulation voltage:	500 V	Torque (end stop):	≥ 100 Ncm		
Max. rated voltage:	AC/DC 320 V	Enclosure material:	thermoplastic		
Resistance:	1 kΩ to 10 kΩ	Connection:	Double terminals 2 x 2.5 mm ²		
Curve shape:	linear	Mechanical life:	25000 sinusoidal cycles		
Resistance tolerance:	± 20 %	Weight:	approx. 71 g		

START-STOP CONTROL STATION - ARMOURED CABLE

Zones 1, 2, 21, 22

ATEX CONTROL STATIONS

Full catalogue available on our website: www.inpratex.com

ZONES 1, 2 (gas) & 21, 22 (dust)



Start-Stop Control Station made of glass fibre reinforced polyester for application in hazardous areas.

Equipped with M20 brass or nickel-plated brass cable glands for installation with armoured cable.



ITEM REFERENCES	
Designation:	Item No.:
START 2NO (GREEN) - STOP 2NC (RED) Control Station - Brass Cable Gland	3J0308
START 2NO (GREEN) - STOP 2NC (RED) Control Station - Nickel Plated Brass Cable Gland	3J0309
START 1NO+1NC (GREEN) - STOP 1NO+1NC (RED) Control Station - Brass Cable Gland	3J0310
START 1NO+1NC (GREEN) - STOP 1NO+1NC (RED) Control Station - Nickel Plated Brass Cable Gland	3J0311

TECHNICAL SPECIFICATIONS			
Marking:	II 2G Ex ed IIC T6 Gb II 2D Ex tb IIIC T80°C		
Certificate:	EU-Type Examination Certificate		
Operating temperature:	-20°C to +40°C		
Ingress protection:	IP65		
Material:	Glass fibre reinforced polyester (GRP)		
Cable entries: 1xM20x1,5 Brass or nickel-plated brass cable gland (14-20,5 mm)			

INTERNAL CONTACT MODULE			
	$\begin{bmatrix} 13 & 23 \\ -7 & -7 \\ 14 & 24 \\ 12 & 22 \\ 14 & 22 \\ \end{bmatrix} \begin{bmatrix} 11 & 21 \\ -7 & -7 \\ -7 & -7 \\ -14 & 22 \\ 14 & 22 \\ \end{bmatrix} \begin{bmatrix} 13 & 21 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 $		
Marking:	EX II 2G Ex de IIC Gb		
Certificate:	EU-Type Examination Certificate		
Operating temperature:	-55°C to +60°C		
Ingress protection:	IP20		
Nominal isolation voltage:	690 V		
	Voltage	e range:	
400 V	400 V	110 V	24 V
Utilization categories:			
AC-12	AC-15 DC-13 DC-13		
Current range:			
16 A	10 A 0,5 A 1 A		

START-STOP CONTROL STATION - NON ARMOURED CABLE

Zones 1, 2, 21, 22

ATEX CONTROL STATIONS

ZONES 1, 2 (gas) & 21, 22 (dust)



Start-Stop Control Station made of glass fibre reinforced polyester for application in hazardous areas.

Equipped with M20 polyamide cable glands for installation with unarmoured cable.



ITEM REFERENCES		
Designation:	Item No.:	
START 2NO (GREEN) - STOP 2NC (RED) Control Station - Plastic Cable Gland	3J0306	
START 1NO+1NC (GREEN) - STOP 1NO+1NC (RED) Control Station - Plastic Cable Gland	3J0307	

TECHNICAL SPECIFICATIONS			
Marking:	€ II 2G Ex ed IIC T6 Gb		
Certificate:	EU-Type Examination Certificate		
Operating temperature:	-20°C to +40°C		
Ingress protection:	IP65		
Material:	Glass fibre reinforced polyester (GRP)		
Cable entries:	1xM20x1,5 Plastic cable gland (7 - 13 mm)		

INTERNAL CONTACT MODULE				
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			
Marking:	Ex II 2G Ex de IIC Gb			
Certificate:	EU-Type Examination Certificate			
Operating temperature:	-55°C to +60°C	-55°C to +60°C		
Ingress protection:	IP20			
Nominal isolation voltage:	690 V			
	Voltage	range:		
400 V	400 V	110 V	24 V	
Utilization categories:				
AC-12	AC-15	DC-13	DC-13	
Current range:				
16 A	10 A	0,5 A	1 A	

START-EMERGENCY STOP CONTROL STATION

Zones 1, 2, 21, 22

ATEX CONTROL STATIONS

ZONES 1, 2 (gas) & 21, 22 (dust)



Start-Emergency Stop Control Station made of glass fibre reinforced polyester for application in hazardous areas.

Equipped with M20 polyamide cable glands for installation with unarmoured cable, or M20 brass or nickel-plated brass cable glands for installation with armoured cable.



ITEM REFERENCES	
Designation:	Item No.:
START 2NO (GREEN) - EMERGENCY STOP 2NC Control Station - Plastic Cable Gland	3J1201
START 2NO (GREEN) - EMERGENCY STOP 2NC Control Station - Brass Cable Gland	3J1202
START 2NO (GREEN) - EMERGENCY STOP 2NC Control Station - Nickel Plated Brass Cable Gland	3J1203

TECHNICAL SPECIFICATIONS			
Marking:	II 2G Ex ed IIC T6 Gb		
Certificate:	EU-Type Examination Certificate		
Operating temperature:	-20°C to +40°C		
Ingress protection:	IP65		
Material:	Glass fibre reinforced polyester (GRP)		
Cable entries:	1xM20x1,5		

INTERNAL CONTACT MODULE				
	$\begin{bmatrix} 13 & 23 \\ -7 & -7 \\ 14 & 24 \\ 12 & 22 \\ 14 & 22 \\ \end{bmatrix} \begin{bmatrix} 11 & 21 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 $			
Marking:	EX II 2G Ex de IIC Gb			
Certificate:	EU-Type Examination Certificate	EU-Type Examination Certificate		
Operating temperature:	-55°C to +60°C			
Ingress protection:	IP20			
Nominal isolation voltage:	690 V			
	Voltage	e range:		
400 V	400 V	110 V	24 V	
Utilization categories:				
AC-12	AC-15 DC-13 DC-13			
Current range:				
16 A	10 A 0,5 A 1 A			

2 SELECTOR SWITCH CONTROL STATION

Zones 1, 2, 21, 22

ATEX CONTROL STATIONS

ZONES 1, 2 (gas) & 21, 22 (dust)

CONTROL & CONNECTION EQUIPMENT 😨 🛧



Control stations equipped with 2 0-I selector switches for hazardous areas, made of glass-fibre reinforced polyester for use in explosive atmospheres.

Fitted with M20 brass or nickel-plated brass cable glands for armoured cable or polyamide cable glands for installation with non-armoured cable.



ITEM REFERENCES		
Designation:	Item No.:	
2 Selector Switch Control Station - Brass Cable Gland	3J1101	
2 Selector Switch Control Station - Nickel Plated Brass Cable Gland	3J1102	
2 Selector Switch Control Station - Plastic Cable Gland	3J1103	

TECHNICAL SPECIFICATIONS			
Marking:	EX II 2G Ex ed IIC T6 Gb		
Certificate:	EU-Type Examination Certificate		
Operating temperature:	-20°C to +40°C		
Ingress protection:	IP65		
Material:	Glass fibre reinforced polyester (GRP)		
Cable entries:	1xM20x1,5		

INTERNAL CONTACT MODULE			
	$\begin{bmatrix} 13 & 23 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7 & -7 \\ -7$		
Marking:	EX II 2G Ex de IIC Gb		
Certificate:	EU-Type Examination Certificate		
Operating temperature:	-55°C to +60°C		
Ingress protection:	IP20		
Nominal isolation voltage:	690 V		
Voltage range:			
400 V	400 V	110 V	24 V
Utilization categories:			
AC-12	AC-15	DC-13	DC-13
Current range:			
16 A	10 A	0,5 A	1 A

COMPACT S-S-E CONTROL STATION - ARMOURED CABLE

Zones 1, 2, 21, 22

ATEX CONTROL STATIONS

ZONES 1, 2 (gas) & 21, 22 (dust)



Compact Start-Stop-Emergency Control Station made of glass fibre reinforced polyester for application in hazardous areas.

Equipped with M20 brass or nickel-plated brass cable glands for installation with armoured cable.



ITEM REFERENCES	
Designation:	Item No.:
START-STOP (GREEN-RED) 1NO+1NC - EMERGENCY STOP 2NC Control Station - Brass Cable Gland	3J0304
START-STOP (GREEN-RED) 1NO+1NC - EMERGENCY STOP 2NC Control Station - Nickel Plated Brass Cable Gland	3J0305

TECHNICAL SPECIFICATIONS		
Marking:	EX II 2G Ex ed IIC T6 Gb	
Certificate: EU-Type Examination Certificate		
Operating temperature:	-20°C to +40°C	
Ingress protection:	IP65	
Material:	Glass fibre reinforced polyester (GRP)	
Cable entries:1xM20x1,5 Brass or nickel-plated brass cable gland (14-20,5 mm)		

INTERNAL CONTACT MODULE			
Marking:	II 2G Ex de IIC Gb		
Certificate:	EU-Type Examination Certificate		
Operating temperature:	Operating temperature: -55°C to +60°C		
Ingress protection:	ection: IP20		
Nominal isolation voltage:	nal isolation voltage: 690 V		
	Voltage	range:	
400 V	400 V	110 V	24 V
	Utilization categories:		
AC-12	AC-15	DC-13	DC-13
Current range:			
16 A	10 A	0,5 A	1A

COMPACT S-S-E CONTROL STATION - NON ARMOURED CABLE

Zones 1, 2, 21, 22

ATEX CONTROL STATIONS

ZONES 1, 2 (gas) & 21, 22 (dust)



Compact Start-Stop-Emergency Control Station made of glass fibre reinforced polyester for application in hazardous areas.

Equipped with M20 polyamide cable glands for installation with unarmoured cable.



ITEM REFERENCES	
Designation:	Item No.:
START-STOP (GREEN-RED) 1NO+1NC - EMERGENCY STOP 2NC Control Station - Plastic Cable Gland	3J0303

TECHNICAL SPECIFICATIONS		
Marking:	II 2G Ex ed IIC T6 Gb	
Certificate: EU-Type Examination Certificate		
Operating temperature:	-20°C to +40°C	
Ingress protection:	IP65	
Material:	Glass fibre reinforced polyester (GRP)	
Cable entries:	1xM20x1,5 Plastic cable gland (7 - 13 mm)	

INTERNAL CONTACT MODULE			
Marking: Ex de IIC Gb			
Certificate:	EU-Type Examination Certificate		
Operating temperature: -55°C to +60°C			
Ingress protection: IP20			
Nominal isolation voltage: 690 V			
	Voltage	e range:	
400 V	400 V	110 V	24 V
	Utilization categories:		
AC-12	AC-15	DC-13	DC-13
Current range:			
16 A	10 A	0,5 A	1 A

START-STOP-EMERGENCY CONTROL STATION - ARMOURED CABLE

Zones 1, 2, 21, 22

ATEX CONTROL STATIONS ZONES 1, 2 (gas) & 21, 22 (dust)



Start-Stop-Emergency Control Station made of glass fibre reinforced polyester for application in hazardous areas.

Equipped with M25 brass or nickel-plated brass cable glands for installation with armoured cable.



ITEM REFERENCES	
Designation:	Item No.:
START 2NO (GREEN) - STOP 2NC (RED) - EMERGENCY STOP 2NC Control Station - Brass Cable Gland	3J0401
START 2NO (GREEN) - STOP 2NC (RED) - EMERGENCY STOP 2NC Control Station - Nickel Plated Brass Cable Gland	3J0402
START 1NO+1NC (GREEN) - STOP 1NO+1NC (RED) - EMERGENCY STOP 2NC Control Station - Brass Cable Gland	3J0403
START 1NO+1NC (GREEN) - STOP 1NO+1NC (RED) - EMERGENCY STOP 2NC Control Station - Nickel Plated Brass Cable Gland	3J0404

TECHNICAL SPECIFICATIONS		
Marking:	II 2G Ex ed IIC T6 Gb II 2D Ex tb IIIC T80°C	
Certificate:	EU-Type Examination Certificate -20°C to +40°C	
Operating temperature:		
Ingress protection: IP65		
Material:	Glass fibre reinforced polyester (GRP)	
Cable entries: 1xM25x1,5 Brass or nickel-plated brass cable gland (14-20,5 mm)		

INTERNAL CONTACT MODULE			
	$\begin{bmatrix} 13 & 22 \\ - & - & - \\ 14 & 24 \\ \end{bmatrix} \begin{bmatrix} 11 & 21 \\ - & - & - \\ 12 & 22 \\ \end{bmatrix} \begin{bmatrix} 13 & 21 \\ - & - & - \\ - & - & - \\ 14 & 22 \\ \end{bmatrix}$		
Marking:	Ex ll 2G Ex de IIC Gb		
Certificate:	EU-Type Examination Certificate		
Operating temperature:	-55°C to +60°C		
Ingress protection:	IP20		
Nominal isolation voltage:	690 V		
	Voltage range:		
400 V	400 V	110 V	24 V
	Utilization categories:		
AC-12	AC-15 DC-13 DC-13		
	Current range:		
16 A	10 A	0,5 A	1 A

ATEX CONTROL STATIONS

ZONES 1, 2 (gas) & 21, 22 (dust)



Start-Stop-Emergency Control Station made of glass fibre reinforced polyester for application in hazardous areas.

Equipped with M25 polyamide cable glands for installation with unarmoured cable.

Full catalogue available on our website: www.inpratex.com



ITEM REFERENCES	
Designation:	Item No.:
START 2NO (GREEN) - STOP 2NC (RED) - EMERGENCY STOP 2NC Control Station - Plastic Cable Gland	3J0301
START 1NO+1NC (GREEN) - STOP 1NO+1NC (RED) - EMERGENCY STOP 2NC Control Station - Plastic Cable Gland	3J0302

TECHNICAL SPECIFICATIONS		
Marking: Marking: II 2G Ex ed IIC T6 Gb II 2D Ex tb IIIC T80°C		
Certificate: EU-Type Examination Certificate		
Operating temperature:	-20°C to +40°C	
Ingress protection:	IP65	
Material:	Glass fibre reinforced polyester (GRP)	
Cable entries:	1xM25x1,5 Plastic cable gland (10 - 17 mm)	

INTERNAL CONTACT MODULE			
	13 23 11 21 13 23 11 21 14 24 12 22 14 24 12 22 14 24 12 22 14 24 12 22 14 22 14 22		
Marking:			
Certificate:	EU-Type Examination Certificate		
Operating temperature:	IP20		
Ingress protection:			
Nominal isolation voltage:			
	Voltage range:		
400 V	400 V	110 V	24 V
	Utilization categories:		
AC-12	AC-15 DC-13 DC-13		
	Current range:		
16 A	10 A	0,5 A	1 A

3 INDICATOR LIGHTS CONTROL STATION

Zones 1, 2, 21, 22

ATEX CONTROL STATIONS

ZONES 1, 2 (gas) & 21, 22 (dust)



ATEX-certified control panels equipped with 3 pilot lights, made of glass-fibre reinforced polyester for use in explosive atmospheres.

Available colours: White (sw), Red (sr), Green (sg), Blue (sb), Yellow (sy)



ITEM REFERENCES			
Designation:	Item No.:		
3 Indicator Lights Control Station - M25 Brass Cable Gland (13,2 - 20,5 mm)	3J0610		
3 Indicator Lights Control Station - M25 Nickel Plated Brass Cable Gland (13,2 - 20,5 mm)	3J0611		
3 Indicator Lights Control Station - M25 Plastic Cable Gland (10 - 17 mm)	3J0612		

TECHNICAL SPECIFICATIONS			
Marking:	II 2G Ex ed IIC T6 Gb		
Certificate:	EU-Type Examination Certificate		
Operating temperature:	-20°C to +40°C		
Ingress protection:	IP65		
Material:	Glass fibre reinforced polyester (GRP)		
Cable entries:	1xM25x1,5		

	INTERNAL MODULE FOR INDICATOR LIGHTS
	X1 X2
Marking:	II 2G Ex de IIC Gb I M2 Ex de I Mb
Certificate:	EU-Type Examination Certificate
Operating temperature:	-55 °C to +50 °C / +60 °C (AC/DC 12V to 24V)
Ingress protection:	IP20
Nominal isolation voltage:	300 V
Voltage range:	AC 12 V to 250 V ($T_a \le +50^{\circ}$ C) DC 12 V to 60 V ($T_a \le +50^{\circ}$ C) AC/DC 12 V to 24 V ($T_a \le +60^{\circ}$ C)
Power:	<1W
Lamp:	LED (Red, Green, Yellow, White, Blue)
Connection:	Terminals 2,5 mm ²
Operating cycle:	>10 ⁵ hours

AMMETER-START-EMERGENCY STOP CONTROL STATION

Zones 1, 2, 21, 22

ATEX CONTROL STATIONS

ZONES 1, 2 (gas) & 21, 22 (dust)



ATEX certified Control Panel equipped with an Ammeter, a Start pushbutton and an Emergency Mushroom.

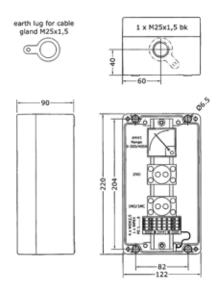
With brass or nickel-plated brass M25 cable gland for installation with armoured cable or polyamide M25 cable gland for unarmoured cable.

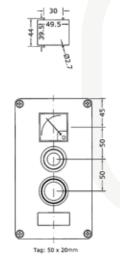




ITEM REFERENCES	
Designation:	Item No.:
AMMETER - START 2NO - EMERGENCY STOP 2NC Control Station - Brass Cable Gland	3J0501
AMMETER - START 2NO - EMERGENCY STOP 2NC Control Station - Nickel-plated Brass Cable Gland	3J0502
AMMETER - START 2NO - EMERGENCY STOP 2NC Control Station - Plastic Cable Gland	3J0503

TECHNICAL SPECIFICATIONS			
Marking:	UI 2G Ex ed IIC T6 Gb		
Certificate:	EU-Type Examination Certificate		
Dimensions:	220x122x90 mm		
Material:	Glass fibre reinforced polyester (GRP)		
Ingress protection:	IP65		
Operating temperature:	-20°C to +40°C		
Ammeter:	Range 0-300A / Full scale 450A / Current transformet 300/1A		
Terminals:	8 x 2,5 mm ² (1-8) + 1 x PE		
Cable entries:	1xM25x1,5 Armoured Cable (14-20,5 mm) Non-Armoured Cable (10 - 17 mm)		







PENDANT STATIONS

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com



ITEM REFERENCES			
Designation:	Item No.:		
2-element pendant station	XAWP029		
4-element pendant station	XAWP049		
6-element pendant station	XAWP069		
8-element pendant station	XAWP089		
12-element pendant station	XAWP069D		
16-element pendant station	XAWP089D		

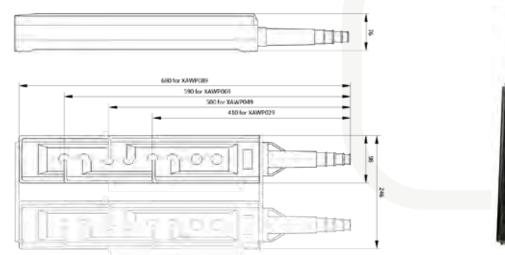
TECHNICAL SPECIFICATIONS			
Marking:	Ex II 2G Ex db eb IIC T6 Gb o Ex db eb mb IIC T6 Gb II 2D Ex tb IIIC T85°C Db - IP65		
Certificate:	EU-Type Examination Certificate		
Operating temperature:	-20°C to +60°C		
Ingress protection:	IP65 according to EN/IEC 60529		
Material:	Glass fibre reinforced polyester (GRP)		
	lth = 10 A; Ui = 415 V		
Features of the contact block:	AC Ue = 380 V; le = 1,9 A or Ue = 240 V; le = 3 A or Ue = 120 V; le = 6 A		
	DC Ue = 250 V; le = 0,27 A or Ue = 125 V; le = 0,55 A or Ue = 24 V; le = 2,87 A		
Features of the LED pilot light:	Rated voltage: 24254 V AC/DC Maximal current: 210 mA		
Mechanical endurance:	Head: 5 million operations - Contact block: 1 million operations		
Cable entries:	For cable Ø 10 to Ø 22 mm		

PENDANT STATIONS Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

	OPERATORS	
Pushbuttons	White	XAWP9411
0	Black	XAWP9412
0	Green	XAWP9413
	Red	XAWP9414
Pilot lights	White	XLW5AV013-XAWP
	Green	XLW5AV033-XAWP
	Red	XLW5AV043-XAWP
	Yellow	XLW5AV053-XAWP
(24V 254V AC-DC)	Blue	XLW5AV063-XAWP
Selector switch + contact	2 fixed positions - Black	XBW5AD21
Selector switch + contact	3 fixed positions - Black	XBW5AD33
Emergency Mushroom head (Ø 40)	Red	XBW5AS844-XAWP
Emergency Mushroom head (Ø 30)	Red	XBW5AS834-XAWP

ARROW FOR DOUBLE	STEP PUSHBUTTON	ARROW FOR SINGLE STEP PUSHBUTTON	
Туре:	Item No.:	Туре:	ltem No.:
UP	ZBWY4953	UP	ZBWY4951
DOWN	ZBWY2956	DOWN	ZBWY2954
RIGHT	ZBWY4903	RIGHT	ZBWY4901
LEFT	ZBWY2906	LEFT	ZBWY2904
FORWARD	ZBWY4965	FORWARD	ZBWAY4963
REVERSE	ZBWY2968	REVERSE	ZBWY2966
		FAST UP	ZBWY4952
		FAST DOWN	ZBWY2955
		FAST RIGHT	ZBWY4902
		FAST LEFT	ZBWY2905
		FAST FORWARD	ZBWY4964
		FAST REVERSE	ZBWY2967
		1	ZBWAY4980
		0	ZBWAY2931
		0-1	ZBWY2178
		1 - 11	ZBWY2179
		I - O - II	ZBWY2186
		EMERGENCY STOP	ZBWY2330





ATEX CONTROL STATIONS



ZONES 1, 2 (gas) & 21, 22 (dust)

The ATEX XAWP pendant control stations are suitable for all types of industry and primarily used on cranes.

Configuration:

1 white/black booted pushbutton, (with or without inter-lockable mechanism) 2 speeds, 2 NO contact per function, "Up" and "Down" twin arrows.

1 white/black booted pushbutton, (with or without inter-lockable mechanism) 2 speeds, 2 NO contact per function, "Left" and "Right" twin arrows.

1 Plug

1 emergency stop Ø40 mushroom turn to release, 1 NC contact, "Emergency Stop"



ITEM REFERENCES				
Designation:	Use:	Zones:	Item No.:	
6-element pendant station with interlock	Indoor	1,2,22	3J1007	
6-element pendant station without interlock	Indoor/Outdoor	1,2,21,22	3J1008	

TECHNICAL SPECIFICATIONS				
			Without interlock:	
Marking:		interiock.	•	
murking.	B	2G Ex db eb IIC T6 Gb 3D Ex tc IIIB T85°C Dc IP65	II 2G Ex db eb IIC T6 Gb II 2D Ex tb IIIC T85°C Db IP65	
Certificate:	EU-Ty	pe Examination Certificate		
Operating temperature:	-20°C	to +60°C		
Ingress protection:	IP65	IP65 according to EN/IEC 60529		
Material:	Glass fibre reinforced polyester (GRP)			
Dimensions:	590x98x76 mm			
	Ith =	Ith = 10 A; Ui = 415 V		
Features of the contact block:	AC Ue = 380 V; le = 1,9 A o Ue = 240 V; le = 3 A o Ue = 120 V; le = 6 A			
	DC Ue = 250 V; le = 0,27 A o Ue = 125 V; le = 0,55 A o Ue = 24 V; le = 2,87 A			
Features of the LED pilot light:	Rated voltage: 24254 V AC/DC Maximal current: 210 mA			
Mechanical endurance:	Head: 5 million operations - Contact block: 1 million operations			
Cable entries:	For cable Ø 10 to Ø 22 mm			

ATEX CONTROL STATIONS



ZONES 1, 2 (gas) & 21, 22 (dust)

The ATEX XAWP pendant control stations are suitable for all types of industry and primarily used on cranes.

Configuration:

1 white/black booted pushbutton, (with or without inter-lockable mechanism) 2 speeds, 2 NO contact per function, "Up" and "Down" twin arrows.

1 white/black booted pushbutton, (with or without inter-lockable mechanism) 2 speeds, 2 NO contact per function, "Left" and "Right" twin arrows.

1 white/black booted pushbutton, (with or without inter-lockable mechanism) 2 speeds, 2 NO contact per function, "Forward" and "Reverse" twin arrows.

1 Plug

1 emergency stop Ø40 mushroom turn to release, 1 NC contact, "Emergency Stop"



ITEM REFERENCES				
Designation:	Use:	Zones:	Item No.:	
8-element pendant station with interlock	Indoor	1,2,22	3J1005	
8-element pendant station without interlock	Indoor/Outdoor	1,2,21,22	3J1006	

	TECHNICAL SPECIFICATIONS		
	With interlock: Without interlock:		
Marking:	Il 2G Ex db eb IIC T6 Gb Il 2G Ex db eb IIC T6 Gb II 3D Ex tc IIIB T85°C Dc IP65 II 2D Ex tb IIIC T85°C Db IP65		
Certificate:	EU-Type Examination Certificate		
Operating temperature:	-20°C to +60°C		
Ingress protection:	IP65 according to EN/IEC 60529		
Material:	Glass fibre reinforced polyester (GRP)		
Dimensions:	680x98x76 mm		
	Ith = 10 A; Ui = 415 V		
Features of the contact block:	AC Ue = 380 V; le = 1,9 A o Ue = 240 V; le = 3 A o Ue = 120 V; le = 6 A		
	DC Ue = 250 V; le = 0,27 A o Ue = 125 V; le = 0,55 A o Ue = 24 V; le = 2,87 A		
Features of the LED pilot light:	Rated voltage: 24254 V AC/DC Maximal current: 210 mA		
Mechanical endurance:	Head: 5 million operations - Contact block: 1 million operations		
Cable entries:	For cable Ø 10 to Ø 22 mm		

12-ELEMENT PENDANT STATIONS

Zones 1, 2, 21, 22

ATEX CONTROL STATIONS

ZONES 1, 2 (gas) & 21, 22 (dust)

The ATEX XAWP pendant control stations are suitable for all types of industry and primarily used on cranes.



Configuration example:

Left side:

1 emergency stop Ø40 mushroom turn to release, 1 NC contact, "Emergency Stop" 1 green booted pushbutton, 1 NO contact, "I"

1 white/black booted pushbutton, inter-lockable mechanism 1 speed, 1 NO contact per function, "Hoist slow up" and "Hoist slow down" twin arrows. 1 white/black booted pushbutton, inter-lockable mechanism 1 speed, 1 NO contact per function, "Hoist fast up" and "Hoist fast down" twin arrows.

Right side:

1 white/black booted pushbutton, inter-lockable mechanism 2 speeds, 2 NO contact per function, "CT Forward" and "CT Reverse" twin arrows. 1 white/black booted pushbutton, inter-lockable mechanism 2 speeds, 2 NO contact per function, "LT Left" and "LT Right" twin arrows.

1 white/black booted pushbutton, inter-lockable mechanism 2 speeds, 2 NO contact per function, "CRD forward" and "CRD reverse" twin arrows.



ITEM REFERENCES			
Designation:	Use:	Zones:	Item No.:
12-element pendant station with interlock	Indoor	1,2,22	3J1001
12-element pendant station without interlock	Indoor/Outdoor	1,2,21,22	3J1002

TECHNICAL SPECIFICATIONS			
	With	interlock:	Without interlock:
Marking:		2G Ex db eb IIC T6 Gb 3D Ex tc IIIB T85°C Dc IP65	(EX) II 2G Ex db eb IIC T6 Gb II 2D Ex tb IIIC T85°C Db IP65
Certificate:	EU-Ty	pe Examination Certificate	
Operating temperature:	-20°C	to +60°C	
Ingress protection:	IP65	according to EN/IEC 60529	
Material:	Glass fibre reinforced polyester (GRP)		
Dimensions:	603x	246x76 mm	
	Ith = 10 A; Ui = 415 V		
Features of the contact block:	AC Ue = 380 V; le = 1,9 A o Ue = 240 V; le = 3 A o Ue = 120 V; le = 6 A		
	DC	Ue = 250 V; le = 0,27 A o Ue = 125 V; le = 0,55 A o Ue	e = 24 V; Ie = 2,87 A
Features of the LED pilot light:	Rated voltage: 24254 V AC/DC Maximal current: 210 mA		
Mechanical endurance:	Head: 5 million operations - Contact block: 1 million operations		
Cable entries:	For cable Ø 10 to Ø 22 mm		

Full catalogue available on our website: www.inpratex.com

16-ELEMENT PENDANT STATIONS

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX CONTROL STATIONS

ZONES 1, 2 (gas) & 21, 22 (dust)

The ATEX XAWP pendant control stations are suitable for all types of industry and primarily used on cranes.



Configuration example:

Left side:

- 1 emergency stop Ø40 mushroom turn to release, 1 NC contact, "Emergency Stop" 1 green booted pushbutton, 1 NO contact, "I"
- 1 black/white double push button, 1 speed, 1 NO contact, "UP" slow/fast
- 1 black/white double push button, 1 speed, 1 NO contact, "DOWN" slow/fast 1 black/white double push button ,1 speed, 1 NO contact, "UP", "DOWN"

Right side:

- 1 black/white double push button, 1 speed, 1 NO contact, "LEFT" slow/fast
- 1 black/white double push button, 1 speed, 1 NO contact, "RIGHT" slow/fast 1 black/white double push button, 1 speed, 1 NO contact, "FORWARD" slow/fast 1 black/white double push button, 1 speed, 1 NO contact, "REVERSE" slow/fast



ITEM REFERENCES			
Designation:	Use:	Zones:	Item No.:
16-element pendant station with interlock	Indoor	1,2,22	3J1003
16-element pendant station without interlock	Indoor/Outdoor	1,2,21,22	3J1004

	TECHNICAL SPECIFICATIONS			
	With interlock:	Without interlock:		
Marking:	EX II 2G Ex db eb IIC T6 Gb	II 2G Ex db eb IIC T6 Gb II 2D Ex tb IIIC T85°C Db IP65		
Certificate:	EU-Type Examination Certificate			
Operating temperature:	-20°C to +60°C			
Ingress protection:	IP65 according to EN/IEC 60529			
Material:	Glass fibre reinforced polyester (GRP)			
Dimensions:	680x250x80 mm			
	Ith = 10 A; Ui = 415 V			
Features of the contact block:	AC Ue = 380 V; le = 1,9 A o Ue = 240 V; le = 3 A o Ue = 120 V; le = 6 A			
	DC Ue = 250 V; le = 0,27 A o Ue = 125 V; le	e = 0,55 A o Ue = 24 V; Ie = 2,87 A		
Features of the LED pilot light:	Rated voltage: 24254 V AC/DC Maximal current: 210 mA			
Mechanical endurance:	Head: 5 million operations - Contact block: 1 million operations			
Cable entries:	For cable Ø 10 to Ø 22 mm			

EX-D LOCAL CONTROL STATIONS

E

Zones 1, 2, 21, 22

ATEX CONTROL STATIONS

ZONES 1, 2 (gas) & 21, 22 (dust)

Ex-d local control stations certified for application in hazardous area zones 1,2 and zones 21,22.

- Pushbuttons
- Pilot lights - Mushroom type pushbuttons
- Switches

External screws in stainless steel.

IECE

EU-Type Examination Certificate



Fully configurable through a huge variety of elements.

	ITEM REFERENCES				
Designation:	Cable entries:	А	В	С	Weight (g):
PB1 - 1 Element (IIC)	2x3/4" NPT	106	86	87	480
PB2 - 2 Elements (IIC)	2x3/4" NPT	156	136	87	685
PB3 - 3 Elements (IIB+ H ₂)	2x3/4" NPT	206	186	87	890
PB4 - 4 Elements (IIB+ H ₂)	2x1" NPT	256	236	82	1520

TECHNICAL SPECIFICATIONS		
Marking:	(1) 2G Ex d IIC o IIB+H2 T6-T4 Gb (1) 12 D Ex tb IIIC T85°C-T135°C Db	
Certificate:	EU-Type Examination Certificate	
Operating temperature:	-20°C to +40°C	
Ingress protection:	IP66	
Material:	Aluminium RAL 7000	
Nominal current:	10 A	
Nominal isolation voltage:	660 V	
Nominal pulse voltage:	Uimp=6 kV	
Short circuit protection Ue<500 VAC:	10 A	
Terminals:	According to IEC/EN 60947-1	
Max. wires section:	2x2,5 mm ²	
Working cycles:	1800 operations/hr (max)	

TEMPERATURES			
Temp. class:		Mary T. Dansara	
Gas	Dust	Max. T. Range:	
Т6	T85°C	-50°C to +60°C	
T5	T100°C	-50°C to +80°C	
T6	T85°C	-50°C to +80°C	
	Temp. Gas T6 T5	Temp. class: Gas Dust T6 T85°C T5 T100°C	

AC15 - A600			
Voltage:	24 V	240 V	400 V
Current:	10 A	6 A	4 A

DC13 - Q600			
Voltage:	24 V	125 V	250 V
Current:	2,8 A	0,55 A	0,27 A

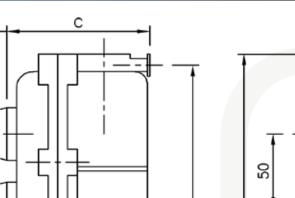
	MANIPULATORS		
Voltage: 400 V AC			
	Current:	10 A	

SIGNALLING LAMPS		
Voltage:	260 V AC	
Lamp:	LED	

ILLUMINATED PUSHBUTTONS				
Max. voltage: 230 V AC/DC				
Max. power: 2 W				

EX-D LOCAL CONTROL STATIONS Zones 1, 2, 21, 22

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ELEMENTS					
Designation	Dimensions (mm):		Contosta		
Designation:	D ØE		Contacts:	Weight (g):	
START pushbutton	16	32	1NO	90	
STOP pushbutton	16	32	1NC	90	
Lighting START pushbutton	16	32	1NO	130	
Lighting STOP pushbutton	16	32	1NC	130	
Mushroom type pushbutton with spring return	30	50	1NO+1NC	100	
Key switch 1-2 poles (pos. 0-1)	60	30	-	400	
Two position key changeover switch 1-2 poles (pos. 1-2)	60	30	-	400	
Three position key changeover switch 1-2 poles (pos. 1-0-2)	60	30	-	400	
Triangular key switch 1-2 poles (pos. 0-1)	50	41	-	370	
Two position triangular key changeover switch 1-2 poles (pos. 1-2)	50	41	-	370	
Three position triangular key changeover switch 1-2 poles (pos. 1-0-2)	50	41	-	370	
Mushroom type pushbutton with locking	30	50	1NO+1NC	100	
Mushroom type pushbutton with rotary locking	58	33	1NO+1NC	180	
Mushroom type pushbutton with locking and keylock	58	33	1NO+1NC	180	
Pilot light	16	32	-	130	
Switch 1-2 poles (pos. 0-1)	22	32	-	300	
Two way changeover switch 1-2 poles (pos. 1-2)	22	32	-	300	
Three way changeover switch 1-2 poles (pos. 1-0-2)	22	32	-	300	

EX-D EMERGENCY STOP

Zones 1, 2, 21, 22

ATEX CONTROL STATIONS

ZONES 1, 2 (gas) & 21, 22 (dust)

Full catalogue available on our website: www.inpratex.com



Explosion-proof emergency mushroom for use in hazardous areas. Ex d enclosure equipped with a rotary release mushroom-type button.

External screws in stainless steel.







ITEM REFERENCES	
Designation:	Item No.:
Ex d PB1 Emergency Stop (2NC)	3K0101

TECHNICAL SPECIFICATIONS				
Marking:	EX II 2G Ex d IIC T6 Gb II 2D Ex tb IIIC T85°C Db			
Certificate:	EU-Type Examination Certificate			
Operating temperature:	-20°C to +40°C			
Ingress protection:	IP66			
Material:	Aluminium RAL 7000			
Nominal current:	10 A			
Nominal isolation voltage:	660 V			
Nominal pulse voltage:	Uimp=6 kV			
Short circuit protection Ue<500 VAC:	10 A			
Terminals:	According to IEC/EN 60947-1			
Max. wires section:	2x2,5 mm ²			
Working cycles:	1800 operations/hr (max)			
Dimensions:	106 x 86 x 87 mm			
Weight:	480 g approx.			
Cable entries:	2x3/4" NPT (cable glands/plugs not included)			

ATEX MANUAL CALL POINT

ZONES 1, 2 (gas) & 21, 22 (dust)

 This manual call point «push button» is certified for use in explosive atmosphere, zone 1 & 2 for gas and zone 21 & 22 for dust. It's dedicated for Oil & Gas, chemical, petrochemical, pharmacy industries, marine and Offshore applications.

It's designed for corrosive environnements and hazardous area.

The apparatus is compatible with PLC, ESD, DCS systems via output 4-20mA.

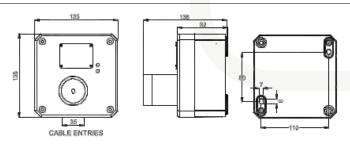
There are two versions available: push button and push button with key to release.

Housing is moulded Glass-Reinforced Polyester (GRP), dyed in the mass and protected by a paint UV resistant.



PRODUCT CODE CONFIGURATOR								
SWITCH	DUTY LABEL	TAG LABEL	RESET	LED INDICATOR	FEATURES	CABLE ENTRY	ENTRY POSITION	FINISH COLOUR
	Y	Y	s	L = RED & GREEN	F = LIFT FLAP	A = M20	т	RD = RED
SINGLE	= YES	= YES	= = YES SELF RESET	ET R = RED R = RES	R = RESISTOR	DR B = M25	= TOP	YW = YELLOW
=		N K				-	BU = BLUE	
1 x C/O	N _		G = GREEN	D = DIODE	C = 1/2" NPT	B =	BL = BLACK	
	NO	NO	KEY RESET	N = NO LED	N = NO FEATURES	C = 3/4" NPT	вотттом	OR = OTHER
ADD THE CODES RELATED TO THE FEATURES REQUIRED TO PB 135:								

TECHNICAL SPECIFICATIONS			
Marking:	EX II 2G EX d IIC + H2 T6 Gb II 2D EX tb IIIC T85°C		
Certificate:	EU-Type Examination Certificate		
Operating temperature:	T6: - 40°C to + 55°C T5: - 40°C to + 60°C T4: - 40°C to + 70°C		
Ambient humidity*:	Until 95% with ice if flap option		
Housing:	Glass fibre reinforced polyester (GRP)		
Colour:	RED: RAL 3001 YELLOW**: RAL 1018 BLUE**: RAL 5005 BLACK**: RAL 9005		
Rated impulse withstand voltage:	1kV following IEC 61000-4-5		
Contact type:	1x C/O		
Command type unit:	Self reset or key push pull		
Conventional thermal courant:	AC 125/250 V (50/60Hz) = 11 A*** ; 30V DC = 6A***; 125 VDC = 0,3A***; 250 V DC = 0,6A***		
Minimum voltage and courant:	DC 5V 10mA		
Short circuit protection:	10 A gG		
Connection:	From 22 to 14 AWG - from 0.50 mm ² to 2.5 mm ²		
Weight:	2 kg		
Line resistor**:	470 Ohms		
Signalling LED**:	Green U= 24V DC I=10mA; Red U=24V DC I= 20mA		
Cable entries:	2 x M20, M25**, 1/2" NPT**, 3/4" NPT** or other** (specify) (cable glands not included)		
* = without runoff - ** = optional - *** resistive load	1		



EMERGENCY PUSHBUTTON WITH BREAKING GLASS

Zones 1, 2, 21, 22

ATEX MANUAL CALL POINT

ZONES 1, 2 (gas) & 21, 22 (dust)

The Emergency Pushbutton with Breaking Glass is a vital component that helps quick evacuation during fire detection or any other emergency situation where the operation of access control systems need to be disabled. It can be used for open or closed circuits.



Electric Execution Identification:

PB1 E0: The breaking of the glass releases the button that automatically closes and / or opens a contact (1NO+1NC).

PB1 E1: The breaking of the glass releases the button that shall be pressed to open and / or close a contact (1NO+1NC).

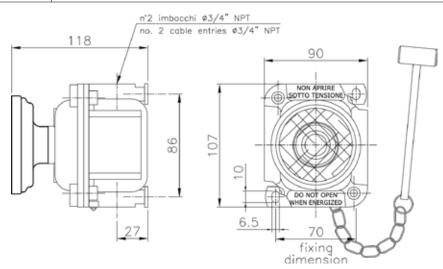


External screws in Stainless Steel AISI 304 (On request AISI 316L).
 External accessories (hammer, chain, glass holder ring) in

- Stainless Steel.
- Extremely lightweight: 1050 g only.

	ITEM REFERENCES	
Designation:	Pushbutton operating code open/close:	Item No.:
PB1 E0	E0: pushbutton in releasing	3K0201
PB1 E1	E1: pushbutton to press	3K0202

TECHNICAL SPECIFICATIONS			
Marking:	EX II 2G Ex d IIC T6÷T4 Gb II 2D Ex tb IIIC T85°C÷T135°C Db		
Certificate:	EU-Type Examination Certificate		
Housing:	Aluminum light alloy. External epoxy RAL 3000		
Operating temperature:	-20°C to +40°C (T6/T85°C) -20°C to +50°C (T5/T100°C) -20°C to +65°C (T4/T135°C)		
Operating conditions:	Indoor / Outdoor		
Dimensions:	107x 90 x 118 mm		
Weight:	Approx. 1 kg		
Ingress protection:	IP66		
Cable entries:	2x3/4" NPT (cable glands not included)		



Full catalogue available on our website: www.inpratex.com

ATEX MANUAL CALL POINT

ZONES 1, 2 (gas) & 21, 22 (dust)



The Ex Manual Call Point is designed for manual fire alert purposes in potentially explosive areas. Its protection type allows for applications in all Ex areas of zones 1, 2, 21 and 22. Type B Manual Call Point according to EN 54-11.

Flexible, system-suited application thanks to different resistor modules.

Housing made of glass fibre-reinforced polyester. All metal parts made of stainless steel.

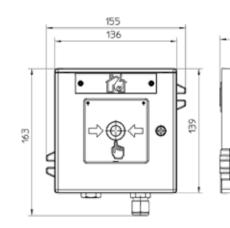


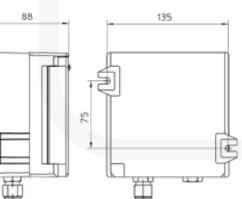




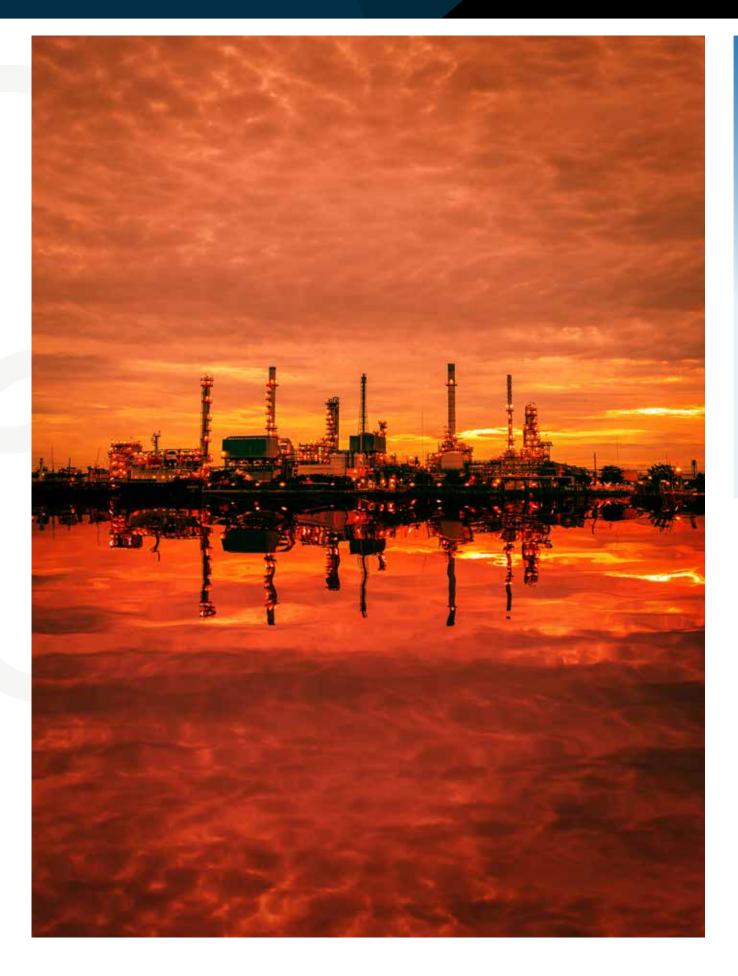
ITEM REFERENCES				
Designation:	Resistors:	Item No.:		
Ex-Fire Switch	-	7F0101		
Ex-Fire Switch	3,3 kΩ (RE) / 680 Ω (R)	7F0102		
Ex-Fire Switch	3,9 kΩ (RE) / 820 Ω (R)	7F0103		
Ex-Fire Switch	3,9 kΩ (RE) / 2,2 kΩ (R)	7F0104		
Ex-Fire Switch	10 kΩ (RE) / 1 kΩ (R)	7F0105		

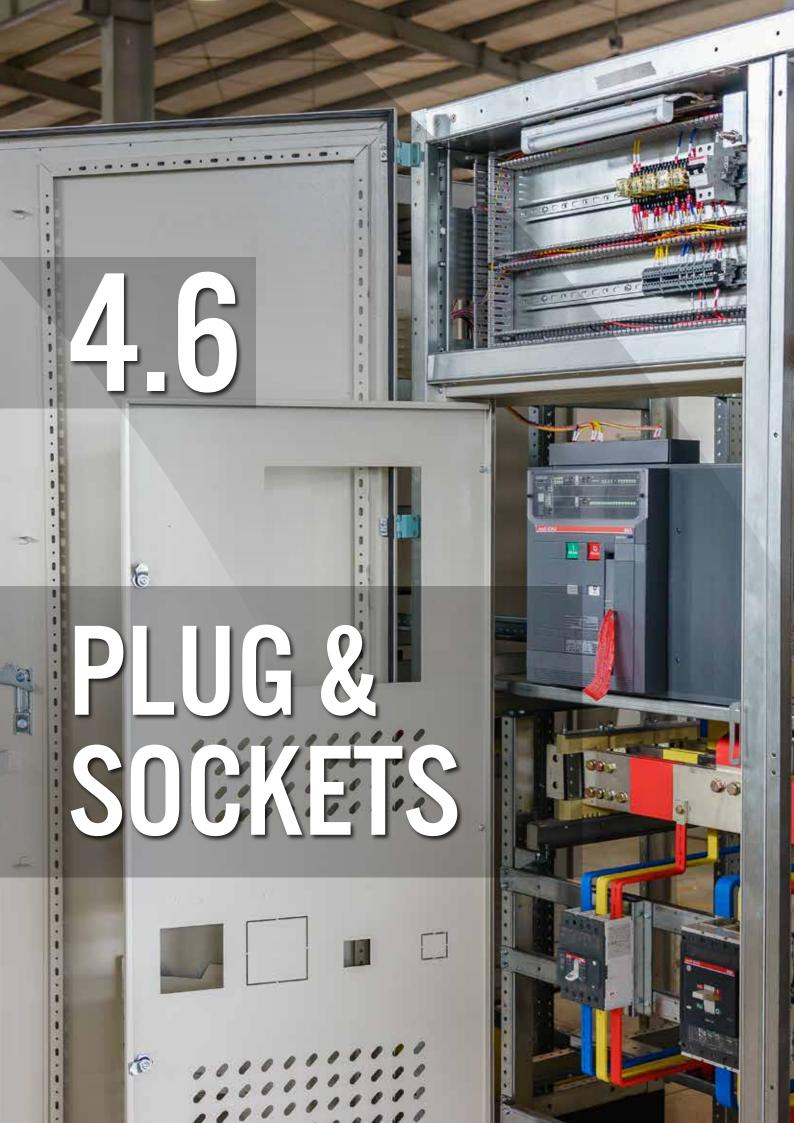
TECHNICAL SPECIFICATIONS			
Marking:	II 2 G Ex de mb IIC/T6 Gb, T5 Gb		
Certificate:	EU-Type Examination Certificate		
Housing:	Glass fibre reinforced polyester Colour: Red RAL 3000		
Surface resistance:	Electrostatially conductive		
Operating temperature:	-55°C to +65°C (T6) -55°C to +70°C (T5)		
Switching contact:	Changeover contact		
Contact rating:	Max. 5 A/250 VAC 0.25 A/250 VDC		
Connection terminals:	Up to 4 mm ² single or fine-wire		
Dimensions:	Approx. 136 x 138 x 88 mm		
Weight:	Approx. 1,8 kg		
Ingress protection:	IP 66 according to IEC 60529		
Operating position:	Wall mounting		
Cable entries:	1x M20x1.5 plastic cable gland 1x M20x1.5 plastic blind plug		





CONTROL & CONNECTION EQUIPMENT 😨 🛧





ATEX PLUGS & SOCKETS

Full catalogue available on our website: www.inpratex.com

ZONES 1, 2 (gas) & 21, 22 (dust)



ATEX plugs and socket-outlets with integrated switch, designed for hazardous areas. With 'de' protection mode, they comply with the ATEX 2014/34/EU Directive.

They can be used in zones 1 & 2 (Gas) and zones 21 & 22 (Dust). They are certified according to IECEx standards





Robust and compact design. High performance GRP casing.

	ITEM REFERENCES					
Rated current:	Rated voltage:	Poles:	Wall mounting socket:	Plugs:	Socket-outlet:	
20A	20/24V	2P	6C0101	6C0201	6C0301	
20A	220/250V	1P+N+T	6C0102	6C0202	6C0302	
20A	380/440V	3P+T	6C0103	6C0203	6C0303	
20A	380/440V	3P+T+N	6C0104	6C0204	6C0304	
32A	220/250V	1P+N+T	6C0105	6C0205	6C0305	
32A	380/440V	3P+T	6C0106	6C0206	6C0306	
32A	380/440V	3P+T+N	6C0107	6C0207	6C0307	
63A	380/440V	3P+T	6C0108	6C0208	6C0308	
63A	380/440V	3P+T+N	6C0109	6C0209	6C0309	
63A	480/500V	3P+T	6C0110	6C0210	6C0310	
63A	480/500V	3P+T+N	6C0111	6C0211	6C0311	

TECHNICAL SPECIFICATIONS					
	20A	32A	63A		
Marking:	 K II 2G Ex de IIC T*Gb K II 2D Ex tb IIIC T*Db * -40°C ≤ Ta ≤ +60°C T5 T90°C -40°C ≤ Ta ≤ +40°C T6 T70°C 	 II 2G Ex de IIC T*Gb II 2D Ex tb IIIC T*Db * -40°C ≤ Ta ≤ +60°C T5 T77°C -40°C ≤ Ta ≤ +40°C T6 T57°C 	 II 2G Ex de IIC T*Gb II 2D Ex tb IIIC T*Db -40°C ≤ Ta ≤ +60°C T4 T107°C -40°C ≤ Ta ≤ +40°C T5 T87°C 		
	EU-Type Examination Certificate	EU-Type Examination Certificate	EU-Type Examination Certificate		
Operating conditions:	Indoor / Outdoor				
Housing:	GRP				
Ingress protection:	IP66/67				
Shock resistance:	IK08				
	Sockets	Plugs			
Cable entries:	20A -> 1xM20x1,5 (7 - 14 mm)* 32A -> 1xM25x1,5 (10 - 18 mm)* 63A -> 1xM32x1,5 (17 - 24 mm)*	20A -> 1xM20x1,5 (7 - 14 mm)* 32A -> 1xM25x1,5 (10 - 18 mm)* 63A -> 1xM40x1,5 (17 - 31 mm)*	*unarmoured cable		

ATEX PLUGS & SOCKETS

ZONES 1, 2 (gas) & 21, 22 (dust)





ATEX certified plugs and socket-outlets, designed for hazardous areas.

The socket is complete with interlocked switch which can only be activated when the plug is inserted and viceversa.

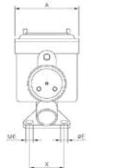


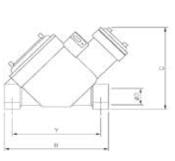


	TECHNICAL SPECIFICATIONS				
Marking:	EX U 2G EX d IIC T6 Gb II 2D EX tb IIIC T80°C Db IP66				
Certificate:	EU-Type Examination Certificate				
Housing:	Aluminium				
Operating conditions:	Indoor / Outdoor				
Ingress protection:	IP66				
Operating temperature:	-20°C to +40°C				

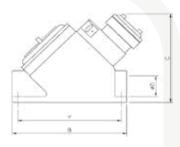
	ITEM REFERENCES - SOCKETS											
Designation	Current			Dimensions (mm)						literes Nie -		
Designation:	Current:	Voltage:	Poles:	2 Cable Entries:	Α	В	С	ØD	ØE	Х	Y	Item No.:
FSQ 215	25 A	500 V	2P+T	1" NPT	110	180	145	1"	7	60	160	6G0101
FSQ 325	32 A	500 V	3P+T	1" NPT	110	180	145	1"	7	60	160	6G0201
FSQ 425	32 A	500 V	4P+T	1" NPT	110	180	145	1"	7	60	160	6G0301
FSQ 360	63 A	500 V	3P+T	1.1/2" NPT	155	246	190	1.1/2"	11	160	222	6G0401
FSQ 460	63 A	500 V	4P+T	1.1/2" NPT	155	246	190	1.1/2"	11	160	222	6G0501

FSQ 215 - 325 - 425

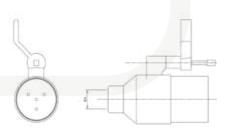








FSQ 360 - 460 / FSQA ...



ITEM REFERENCES - PLUGS					
Designation:	Current:	Voltage:	Poles:	1 Cable Entry ØA:	Item No.:
BP 215	25 A	500 V	2P+T	3/4" NPT	6G0102
BP 325	32 A	500 V	3P+T	3/4" NPT	6G0202
BP 425	32 A	500 V	4P+T	3/4" NPT	6G0302
BP 360	63 A	500 V	3P+T	1" NPT	6G0402
BP 460	63 A	500 V	4P+T	1" NPT	6G0502

DX9 DECONTACTOR

Zones 1, 2, 21, 22

ATEX PLUGS & SOCKETS



Certified explosion-proof plugs and sockets, with integrated load-break switch.

Locking in connected or disconnected position by keying axis.

IECEX

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ITEM REFERENCES						
Designation:	Voltage:	Poles:	Cable entries:	Item No.:		
Wall mounting socket DX9	380-440 V	3P+T	M40 (16-27 mm)	6E0201		
Plug DX9	380-440 V	3P+T	M40 (16-27 mm)	6E0202		
Wall mounting socket DX9	380-440 V	3P+N+T	M40 (16-27 mm)	6E0301		
Plug DX9	380-440 V	3P+N+T	M40 (16-27 mm)	6E0302		

ZONES 1, 2 (gas) & 21, 22 (dust)

TECHNICAL SPECIFICATIONS				
Marking:	 II 2GD Ex de IIC tD A21 -40 °C ≤ Ta ≤ +60 °C T5 T90 °C -40 °C ≤ Ta ≤ +50 °C T6 T80 °C 			
Certificate:	EU-Type Examination Certificate			
Housing:	Metal (Aluminium)			
Rated current:	125 A			
Maximum voltage:	750 V			
Operating conditions:	Indoor / Outdoor			
IP protection lid closed:	IP65			
IP protection plug connected:	IP65/IP66			
Shock resistance:	IK10			
Operating temperature:	-40°C to +60°C			
Flexible wiring (min - max):	35 - 50 mm ²			
Stranded wiring (min - max):	50 - 70 mm ²			
Other wiring:	On request			
Keying positions:	12			

EX COMPACT CONNECTOR

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX PLUGS & SOCKETS

ZONES 1, 2 (gas) & 21, 22 (dust)









Compact and rugged connector designed for all types of aggressive environments (humidity, corrosion, pollution) found in many industrial hazardous areas.

The 5 contacts connection can meet all needs and applications such as lighting.

This connector is both quickly assembled and put into service. Its locking ring resists vibration thus preventing accidental disconnection of the plug on load.

The technically advanced silver-nickel butt contact system assures next level performance no matter the conditions. The connector guarantees a long-lasting and electrically efficient connection for your industry.

ITEM REFERENCES					
Designation: Voltage: Poles: Item No.:					
Socket-outlet (Female)	250V	3P+N+T	6D0201		
Inlet (Male)	250V	3P+N+T	6D0202		

TECHNICAL SPECIFICATIONS				
Marking:	€ II 2GD Ex e IIC T6 Gb Ex tb IIIC T72°C Db			
Certificate:	EU-Type Examination Certificate			
Operating conditions:	Indoor / Outdoor			
Housing:	Glassfibre reinforced thermoplastic UL94 V-0			
Butt contacts:	Copper alloy with silver-nickel tips			
Contact protection:	Tinning			
Load cycles:	More than 2000 cycles			
Shock resistance:	IK08			
Vibration:	Frequency 5-1000Hz, 1g (90 minutes on each critical frequency) According to IEC 6068 2-6			
Impulse withstand voltage:	5 kV / Pollution degree 3			
Contact resistance:	<2mΩ			
Permited current range:	4-20 mA / 5 A			
Ductrs accepted:	From 0,75 mm ² to 2,5 mm ² Mechanical terminals			
Cable diameter:	From 7 to 14 mm			
Operating temperature:	-20°C to +70°C			
IP protection Socket with cap:	IP66/IP67 IP69K 100 bar (1450 PSI) 80°C			
IP protection connected plug:	IP66/IP67 IP69K 100 bar (1450 PSI) 80°C			
Resistance to fluids:	Motor oils, petrol, fats, detergents			

1P+N+E EXTENSION LEAD

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX PLUGS & SOCKETS

ZONES 1, 2 (gas) & 21, 22 (dust)

Extension leads for mobile services, suitable for operation in explosive atmospheres in the presence of gases, vapours and combustible dust.

Consisting of a rubber insulated hose for use in hazardous areas and ATEX certified plug and socket (male, female). Both sockets are only compatible with plugs and sockets from the same manufacturer.

The configuration provides an IP66/IP67 rating, which gives the system a high protection against dust and liquid ingress.





ITEM REFERENCES					
Designation:	Voltage: Poles: Item No.:				
1P+N+E 10m Extension lead	220/250V	1P+N+E	6C0402A		
1P+N+E 15m Extension lead	220/250V	1P+N+E	6C0402B		
1P+N+E 20m Extension lead	220/250V	1P+N+E	6C0402C		
1P+N+E 25m Extension lead	220/250V	1P+N+E	6C0402D		
	COMPATIBLE PLU	JGS AND SOCKETS			
Wall socket: (female) 1P+N+E	220/250V	1P+N+E	6C0102		
Socket-outlet (female) 11P+N+E	220/250V	1P+N+E	6C0302		
Plug (male) 1P+N+E	220/250V	1P+N+E	6C0202		

TECHN	ICAL SP	FCIEI	CATIONS

Marking:	EX II 2G Ex de IIC T*Gb		
Certificate:	EU-Type Examination Certificate		
Operating temperature:	-40°C ≤ Ta ≤ +60°C - T5 T90°C -40°C ≤ Ta ≤ +40°C - T6 T70°C		
Operating conditions:	Indoor / Outdoor		
Housing:	GRP		
Ingress protection:	IP66/67		
Shock resistance:	IK08		
Cable:	H07RN-F 450/750V - 3G2,5		
Cable entries:	M20x1,5 (7 - 14 mm)		

3 SOCKET DISTRIBUTION UNIT: 3 - 1PH+N+PE

Zones 1, 2, 21, 22

ATEX PLUGS & SOCKETS

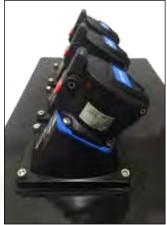
ZONES 1, 2 (gas) & 21, 22 (dust)

ATEX-certified 3-outlet rack for fixed installation in hazardous areas.

Equipped with 3 ATEX sockets 20A 220/250V 1PH+N+PE and their respective plugs. Hinged lid.







Cable glands and/or stopping plugs are supplied separately

ITEM REFERENCES					
Designation:	Rated current:	Rated voltage:	Poles:	Item No.:	
3-outlet rack 1PH+N+PE	20A	220/250V	1PH+N+PE	6F0110	

TECHNICAL	TECHNICAL SPECIFICATIONS			
Marking:	II 2G Ex ed IIC T6 Gb			
Certificate:	EU-Type Examination Certificate			
Material:	Polyester black			
Dimensions:	400x250x120 mm			
Operating conditions:	Indoor / Outdoor			
Terminals:	4x10 mm ² and 2x10 mm ² PE			
Outlets:	3 sockets 20A 1PH+N+PE			
Ingress protection:	IP65			
Operating temperature:	-20°C to +40°C			
Cable entries:	1 M32x1,5 1 M20x1,5			



3 SOCKET DISTRIBUTION UNIT: 2 - 1PH+N+PE / 1 - 3PH+PE

Zones 1, 2, 21, 22

ATEX PLUGS & SOCKETS

ZONES 1, 2 (gas) & 21, 22 (dust)

ATEX-certified 3-outlet rack for fixed installation in hazardous areas. Hinged lid.

Equipped with 2 ATEX 20A 220/250V 1PH+N+ PE sockets and 1 ATEX 32A 380/440V 3PH+ PE socket with their respective plugs.

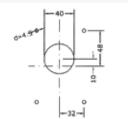


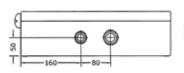


The cable glands are supplied separately

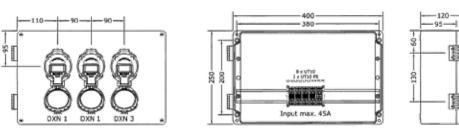
ITEM REFERENCES				
Designation: Rated current: Rated voltage: Poles: Item No.:				Item No.:
3-outlet rack (2 - 1PH+N+PE 20A / 1 - 3PH+PE 32A) 20A 32A 220/250V 380/440V 1P+N+T 3P+T 6F0113				

	TECHNICAL SPECIFICATIONS
Marking:	Ex II 2G Ex ed IIC T6 Gb
Certificate:	EU-Type Examination Certificate
Material:	Polyester black
Dimensions:	400x250x120 mm
Operating conditions:	Indoor / Outdoor
Terminals:	8x10 mm ² and 2x10 mm ² PE
Outlets:	2 sockets 1P+N+T 20A 1 socket 3P+T 32A
Ingress protection:	IP65
Operating temperature:	-20°C to +40°C
Cable entries:	1 M25x1,5 1 M32x1,5





Side B: 1 x stopping plug M25x1.5 bk 1 x stopping plug M32x1.5 bk



Full catalogue available on our website: www.inpratex.com

ATEX PLUGS & SOCKETS

ZONES 1, 2 (gas) & 21, 22 (dust)

ATEX-certified 4-outlet rack for fixed installation in hazardous areas. Hinged lid.

Equipped with 2 ATEX 20A 220/250V 1PH+N+ PE sockets, 1 ATEX 32A 380/440V 3PH+ PE socket and 1 ATEX 32A 380/440V 3PH+N+PE socket with their respective plugs.

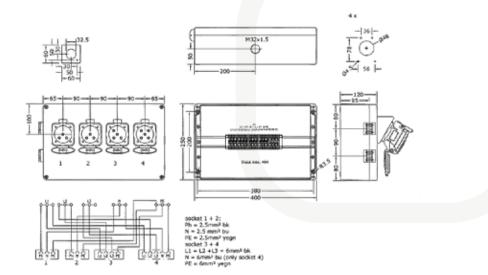




The cable gland is supplied separately

ITEM REFERENCES				
Designation: Rated current: Rated voltage: Poles: Item				Item No.:
4-outlet rack (2 - 1PH+N+PE 20A / 1 - 3PH+PE 32A / 1 - 3PH+N+PE 32A)	20A 32A	220/250V 380/440V	1P+N+T 3P+T 3P+N+T	6F0114

	TECHNICAL SPECIFICATIONS
Marking:	Ex II 2G Ex ed IIC T6 Gb II 2D Ex tb IIIC T80°C Db
Certificate:	EU-Type Examination Certificate
Material:	Polyester black
Dimensions:	400x250x120 mm
Operating conditions:	Indoor / Outdoor
Terminals:	12x10 mm ² y 3x10 mm ² PE
Outlets:	2 sockets 1P+N+T 20A 1 socket 3P+T 32A 1 socket 3P+N+T 32A
Ingress protection:	IP65
Operating temperature:	-20°C to +40°C
Cable entries:	1 M32x1,5



4 SOCKET DISTRIBUTION UNIT: 2 - 1PH+N+PE / 2 - 3PH+N+PE

Zones 1, 2, 21, 22

ATEX PLUGS & SOCKETS

ZONES 1, 2 (gas) & 21, 22 (dust)

ATEX-certified 4-outlet rack for fixed installation in hazardous areas. Hinged lid.

Equipped with 2 ATEX sockets 20A 220/250V 1PH+N+PE, 2 ATEX sockets 32A 380/440V 3PH+N+PE and their respective plugs.



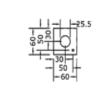


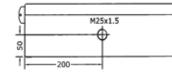
The cable gland is supplied separately

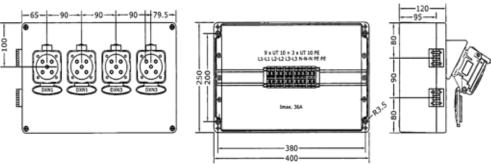
ITEM REFERENCES				
Designation: Rated current: Rated voltage: Poles: Item No.:				Item No.:
4-outlet rack (2 - 1PH+N+PE 20A / 2 - 3PH+N+PE 32A) 20A 32A 220/250V 380/440V 1PH+N+PE 3PH+N+PE 6F0111				

Т	ECHNICAL SPECIFICATION	S
Marking:	😥 II 2G Ex ed IIC T6 Gb 😥 II 2D Ex tb IIIC T80°C Db	
Certificate:	EU-Type Examination Certific	cate
Material:	Polyester black	
Dimensions:	400x250x120 mm	
Operating conditions:	Indoor / Outdoor	
Terminals:	9x10 mm ² and 3x10 mm ² PE	
Outlets:	2 sockets 20A 1PH+N+PE 2 sockets 32A 3PH+N+PE	
Ingress protection:	IP65	
Operating temperature:	-20°C to +40°C	/
Cable entries:	1 M25x1,5	









6 SOCKET DISTRIBUTION UNIT: 6 - 1PH+N+PE

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX PLUGS & SOCKETS

ZONES 1, 2 (gas) & 21, 22 (dust)



ATEX-certified 6-outlet rack for fixed installation in hazardous areas.

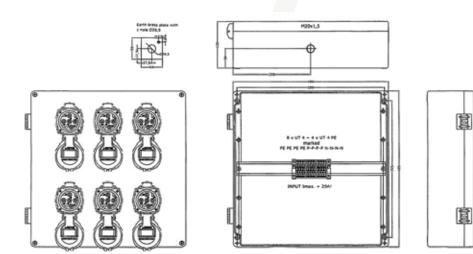
Equipped with 6 ATEX sockets 20A 220/250V 1PH+N+PE and their respective plugs. Hinged lid.



The cable gland is supplied separately

		ITEM REFERENCES		
Designation:	Rated current:	Rated voltage:	Poles:	Item No.:
6-outlet rack 1PH+N+PE	20A	220/250V	1PH+N+PE	6F0112

	TECHNICAL SPECIFICATIONS		
Marking:	Ex II 2G Ex ed IIC T6 Gb		
Certificate:	EU-Type Examination Certificate		
Material:	Polyester black		
Dimensions:	400x405x120 mm		
Operating conditions:	Indoor / Outdoor		
Terminals:	8x 4 mm ² and 4x 4 mm ² PE		
Outlets:	6 sockets 20A 1PH+N+PE		
Ingress protection:	IP65		
Operating temperature:	-20°C to +40°C		
Cable entries:	1 M20x1,5		



Zones 0, 1, 2



ZONES 0, 1, 2 (gas)

Connection elements on electrical devices enable an easy and quick exchange for maintenance or callibration.

The Ex i connection elements are available in three different encodings.

Because of their high IP protection rate as well as their wide ambient temperature range, these units are made for the use in harsh environmental conditions. Also available are protection caps.

NOTE: this connection elements are for the use with intrinsically safe circuits



	VARIANTS					
Male A	Female A	Male B	Female B	Male D	Female D	

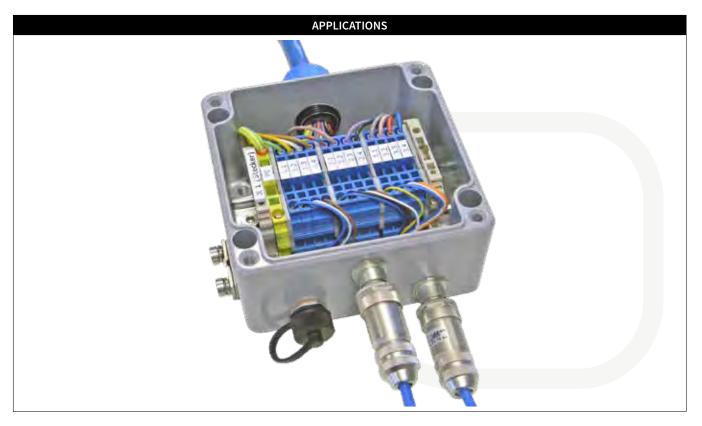
ITEM REFERENCES				
	Designation:	Type:	Connection:	Item No.:
	4 Poles coupler	Α	M12x1 - Ø6-8	4F0101
	4 Poles coupler	Α	M12x1 - Ø4-6	4F0102
50	4 Poles coupler	В	M12x1 - Ø4-6	4F0103
	4 Poles coupler	В	M12x1 - Ø6-8	4F0104
	4 Poles coupler	D	M12x1 - Ø6-8	4F0105
	4 Poles coupler	D	M12x1 - Ø4-6	4F0106
	4 Poles plug	Α	M12x1 - Ø4-6	4F0107
	4 Poles plug	Α	M12x1 - Ø6-8	4F0108
Si la	4 Poles plug	В	M12x1 - Ø6-8	4F0109
	4 Poles plug	В	M12x1 - Ø4-6	4F0110
	4 Poles plug	D	M12x1 - Ø4-6	4F0111
	4 Poles plug	D	M12x1 - Ø6-8	4F0112
	Flange socket 4 Poles (4 wires length 0,5 m)	Α	M16x1,5	4F0113
~	Flange socket 4 Poles (4 wires length 0,5 m)	В	M16x1,5	4F0114
ø	Flange socket 4 Poles (4 wires length 0,5 m)	D	M16x1,5	4F0115
/	Flange plug 4 Poles (4 wires length 0,5 m)	Α	M16x1,5	4F0116
	Flange plug 4 Poles (4 wires length 0,5 m)	В	M16x1,5	4F0117
U D ¹	Flange plug 4 Poles (4 wires length 0,5 m)	D	M16x1,5	4F0118
	Protection cap flange plug			4F0119
	Protection cap flange socket			4F0120
	Protection cap coupler			4F0121
	Protection cap plug			4F0122

EX I CONNECTION ELEMENT

	TECHN	NICAL SPECIFICATIONS	
Marking:	😥 II 1G Ex ia IIC T6 Ga		
Certificate:	According to 2014/34/EU		
Material:	Die-cast zinc (nickel plated)	
Ingress protection:	max. IP66/67		
Operating temperature:	-40°C to +80°C		
Contact material:	Gold plated		
Connection:	Plug: 0,75 mm ² screw type Socket: 0,25 mm ² l=0,5m	for cable 4-6 or 6-8 mm	
020 M12 x 1	_57	13 - 13 - 500 	1 kmm//mwwr 2 well/white 3 blau/black 4 schwerz/black
SW	8 mm	SW 17mm SW 13,4mm	Occupancy Flange plug
Coupler		Flange plug	Flange plug
0 20 M12 x 1	_62	19.5 500 1.5 11.5 2 M1043.5 SW 17mm SW 13.4mm	4 schwerz/beck
31		SAL COULD SHE POWERING	Occupancy Flange socket

Plug

Flange socket





LIMIT SWITCHES XCWD SERIES

Zones 1, 2, 21, 22

ATEX LIMIT SWITCHES

ZONES 1, 2 (gas) & 21, 22 (dust)

The XCWD limit switches is a safe bet for controlling movement. It benefit from the latest developments: modularity, compactness and a very broad range of actuators.

They are designed for intensive use and a very good repeatability.



They are provided in complete assemblies or variable composition with:

- 2 or 4 electrically separate snap action contacts.

- Can substitute the previous range XCWA and XCWF



Heads that can be adjusted from 15° to 15° on 360° relative to the body

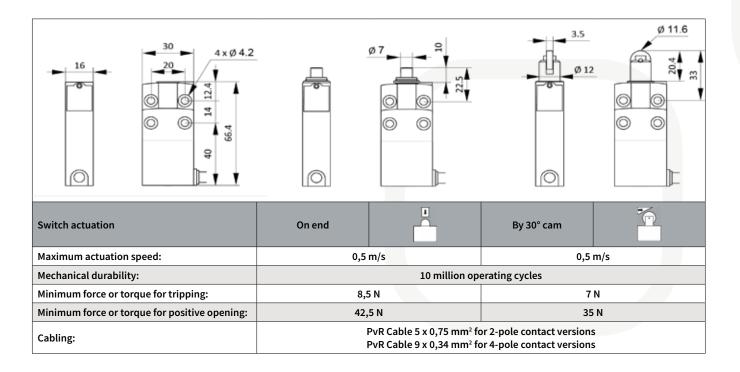
TECHNICAL SPECIFICATIONS						
Marking:	 II 2G Ex d IIC T6 Gb II 2D Ex tb IIIC T85°C Db 					
Certificate:	EU-Type Examination Certificate					
Housing:	Zamac					
Operating temperature:	-20°C to +60°C					
Ingress protection:	IP66/67					
Repeat accuracy:	0,05 mm on the tripping points 1 million operation cycles for actuator with end plunger					
Shock resistance:	25 gn (18ms) according to IEC 60068-2-27					
Vibration resistance:	5 gn according to IEC 60068-2-27					
Rated thermal current:	6 A for 2 contacts according to versions, 3 A for 4 contacts					
Rated insulation voltage:	400 V according to IEC 60947-5-1					
Contact blocks:	Snap action - 1 x NC + 1 x NO or 2 x NC + 2 x NO					
Resistance across terminals:	\leq 25 m Ω according to IEC 60255-7 category 3					

Electrical features of the contacts								
Switches with 2 contacts	Switches with 4 contacts							
AC-15 ; C300 (Ue = 240 V, le = 1.5 A) DC-13 ; R300 (Ue = 250 V, le = 0.1 A)	AC-15 ; C300 (Ue = 240 V, le = 0.75 A) DC-13 ; R300 (Ue = 250 V, le = 0.1 A)							

LIMIT SWITCHES XCWD SERIES

Zones 1, 2, 21, 22

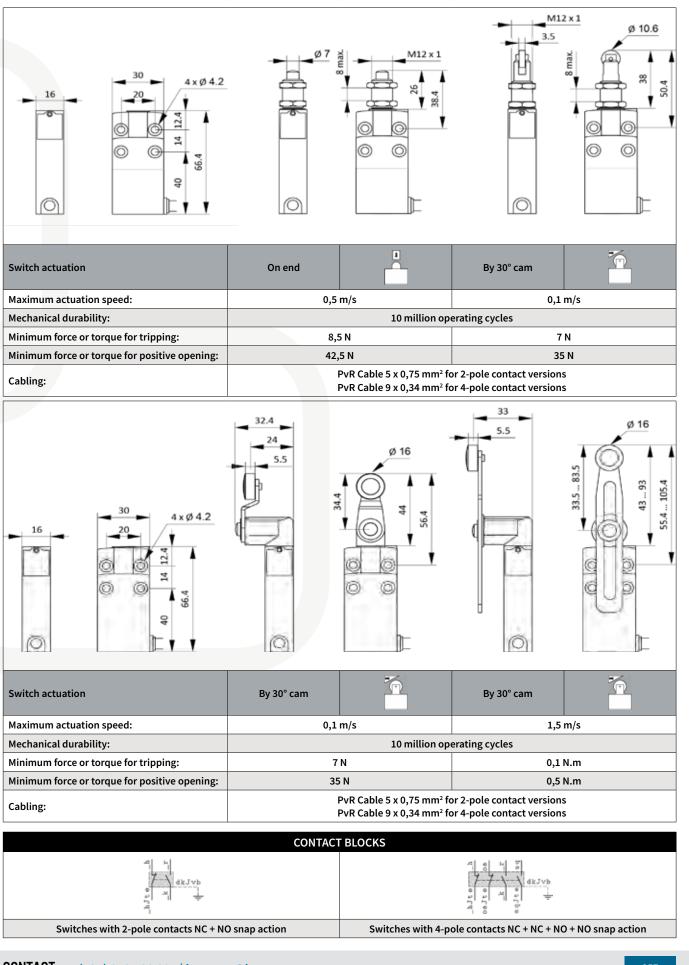
		HEAD WITH STRAIG	HT MOVEMENT. FI	KING BY THE BODY		
Actuator type		Metal end plunger			Steel roller plunger	
	C.00.2	2 CONTACTS	4 CONTACTS	Δ.	2 CONTACTS	4 CONTACTS
1 m cable length		XCWD2110L1	XCWD4110L1		XCWD2102L1	XCWD4102L1
2 m cable length		XCWD2110L2	XCWD4110L2	2.	XCWD2102L2	XCWD4102L2
5 m cable length		XCWD2110L5	XCWD4110L5		XCWD2102L5	XCWD4102L5
10 m cable length		XCWD2110L10	XCWD4110L10		XCWD2102L10	XCWD4102L10
	I	HEAD WITH STRAIG	HT MOVEMENT. FI	KING BY THE HEAD		
Actuator type	Μ	1etal end plunger - M1	12	St	eel roller plunger - M	12
	10	2 CONTACTS	4 CONTACTS	1	2 CONTACTS	4 CONTACTS
1 m cable length	A	XCWD21F0L1	XCWD410L1	意	XCWD21F2L1	XCWD41F2L1
2 m cable length		XCWD21F0L2	XCWD410L2		XCWD21F2L2	XCWD41F2L2
5 m cable length		XCWD21F0L5	XCWD410L5		XCWD21F2L5	XCWD41F2L5
10 m cable length	<	XCWD21F0L10	XCWD410L10	€ 🚽	XCWD21F2L10	XCWD41F2L10
		HEAD WITH ANGUL	AR MOVEMENT. FIX	(ING BY THE BODY		
Actuator type	Tł	nermoplastic roller lev	ver		Steel roller lever	
		2 CONTACTS	4 CONTACTS		2 CONTACTS	4 CONTACTS
1 m cable length		XCWD2115L1	XCWD4115L1		XCWD2116L1	XCWD4116L1
2 m cable length		XCWD2115L2	XCWD4115L2	1	XCWD2116L2	XCWD4116L2
5 m cable length		XCWD2115L5	XCWD4115L5		XCWD2116L5	XCWD4116L5
10 m cable length	€	XCWD2115L10	XCWD4115L10	4	XCWD2116L10	XCWD4116L10
		HEAD WITH ANGUL	AR MOVEMENT. FIX	(ING BY THE BODY		
Actuator type	Lever variab	le length with thermo	oplastic roller	Lever va	riable length with ste	eel roller
	ø	2 CONTACTS	4 CONTACTS	2	2 CONTACTS	4 CONTACTS
1 m cable length	_	XCWD2145L1	XCWD4145L1	_	XCWD2146L1	XCWD4146L1
2 m cable length		XCWD2145L2	XCWD4145L2		XCWD2146L2	XCWD4146L2
5 m cable length		XCWD2145L5	XCWD4145L5	L. L.	XCWD2146L5	XCWD4146L5
10 m cable length	 😌	XCWD2145L10	XCWD4145L10	4 6	XCWD2146L10	XCWD4146L10



LIMIT SWITCHES XCWD SERIES

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com



LIMIT SWITCHES XCK - XCR SERIES

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX LIMIT SWITCHES

ZONES 1, 2 (gas) & 21, 22 (dust)

The XCK and XCR ranges of ATEX certified limit switches are well known around the world for their reliability, design and flexibility of application.

The XCKW series are supplied with fitted cable gland for easy installation. XCKWMR are fitted for lifting equipment, conveyors, handling devices...

XCRA / B / TW are fitted for lifting equipment, conveyors...



TECHNICAL SPECIFICATIONS						
Marking:	 II 2G Ex d e IIC T6 Gb II 2D Ex tb IIIC T85°C Db 					
Certificate:	EU-Type Examination Certificate					
Housing:	Zamac					
Operating temperature:	XCKW: -20°C to +60°C XCR.W: -30°C to +60°C					
Ingress protection:	IP65 according to EN/IEC 60529					
Contact blocks:	500 V, 3 A					

	FOR LI	FTING EQUIPMENT	, CONVEYORS - FIXI	NG DISTANCE 85 x T	75 mm	
	Square rod	Thermoplastic	Thermoplastic	Metallic square	Conveyor belt s	shift monitoring
Actuator type	r type 6 mm spring roller lever roller lever return position Ø 30 mm Ø 50 mm			rod in cross, stay put	Lever galvanized	Lever in stainless steel
Two 2-pole NC + NO contacts, both operate in each direction	XCRAW111	XCRAW121	XCRAW151	XCREW181 (2)		
Two 2-pole NC + NO contacts, one operates in each direction	XCRBW111	XCRBW121	XCRBW151	XCRFW171 (3)		
2 single contacts NO + NC					XCRTW115	XCRTW215
Actuation speed			1,5	m/s		
Durability		10 million	operations		0.3 million	operations
Contact type			Snap	action		
Cable entry			1 x M20 (8	3 - 13 mm)		
(2) Metallic rods in cros (3) Metallic rods in "T"	S					

LIMIT SWITCHES XCK - XCR SERIES Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

	OVERAL USE - FIXING DISTANCE 41 mm										
				CARLE L							
Actuator type	Metal end plunger	Steel roller plunger	Thermoplastic roller lever	Thermoplastic roller lever	"Cat's wisker"						
NO + NC	XCKWM2110H29	XCKWM2102H29	XCKWM2121H29	XCKWM2115H29	XCKWM2106H29						
Actuation speed	0,5	m/s	1,5	m/s	0,5 m/s						
Durability		20 million	operations		10 million operations						
Contact type			Snap action								
Cable entry	2 x blind plug 1 x M20 (8 - 13 mm)										

	COMPACT RANGE - FIXING DISTANCE 20 mm										
				759							
Actuator type	Metal end plunger	Booted metal end plunger		el roller unger	Plastic roller, horizontal actuation	Plastic roller, vertical actuation	Plastic roller, vertical or horizontal actuation				
NC + NC	XCKWD2110P16	XCKWD2111P16	хскw	D2102P16	XCKWD2121P16	XCKWD2127P16	XCKWD2128P16				
NO + NC	XCKWD2910P16	XCKWD2911P16	хски	D2902P16	XCKWD2921P16	XCKWD2927P16	XCKWD2928P16				
Actuation speed		0,5 m/s				1 m/s					
Durability	15 million operations 10 million operations 15 million operations										
Contact type				Snap a	action						
Cable entry	1 x M16 (5 - 8 mm)										

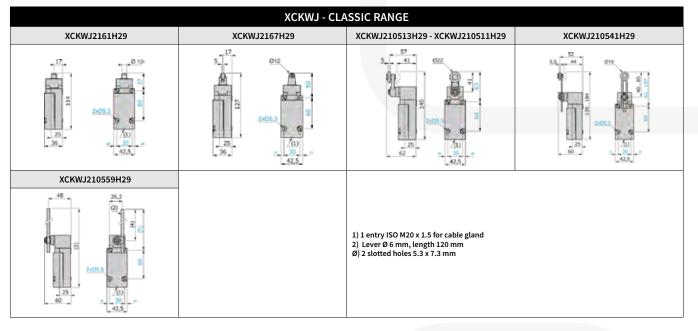
	COMPACT RANGE - FIXING DISTANCE 20 mm											
			O									
Actuator type	Thermoplastic roller lever	Thermoplastic roller lever Ø 50 mm	Variable length plastic roller lever	Variable length plastic roller Ø 50 mm	"Cat's wisker"	M18 head Metal end plunger	M18 steel roller end plunger					
NC + NC	XCKWD2118P16	XCKWD2139P16	XCKWD2145P16	XCKWD2149P16	XCKWD2106P16	XCKWD21H0P16	XCKWD21H2P16					
NO + NC	XCKWD2918P16	XCKWD2939P16	XCKWD2945P16	XCKWD2949P16	XCKWD2906P16	XCKWD29H0P16	XCKWD29H2P16					
Actuation speed		1,5	m/s		1 m/s	0,5	m/s					
Durability		10 million operations 5 million operations 10 million operations										
Contact type				Snap action								
Cable entry		1 x M16 (5 - 8 mm)										

LIMIT SWITCHES XCK - XCR SERIES

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

		COMPACT RAN	GE - FIXING DISTAN	ICE 30 x 60 mm		
		ALL DE LE				
Actuator type	Metal end plunger	Steel roller plunger	Steel roller lever	Thermoplastic roller lever	Variable length thermoplastic roller lever	Round lever Ø 6 mm polyamide L = 200 mm
NO + NC	XCKWJ2161H29	XCKWJ2167H29	XCKWJ210513H29	XCKWJ210511H29	XCKWJ210541H29	XCKWJ210559H29
Actuation speed	0,5 m/s	1 m/s		1,5	m/s	
Durability	30 million operations	25 million operations	30 million	operations	20 million	operations
Contact type			Snap	action		
Cable entry			1 x M20 (8	3 - 13 mm)		



	XCKWM - CLASSIC RANGE										
XCKWM2110H29	XCKWM2102H29	XCCKWM2121H29	XCKWM2115H29								
ХСКШМ	2106H29										
		1) 3 entries ISO M20 x 1.5 for cable gland 2) 2 holes x Ø 4 Ø) 2 slotted holes 5.2 x 6.2 mm									

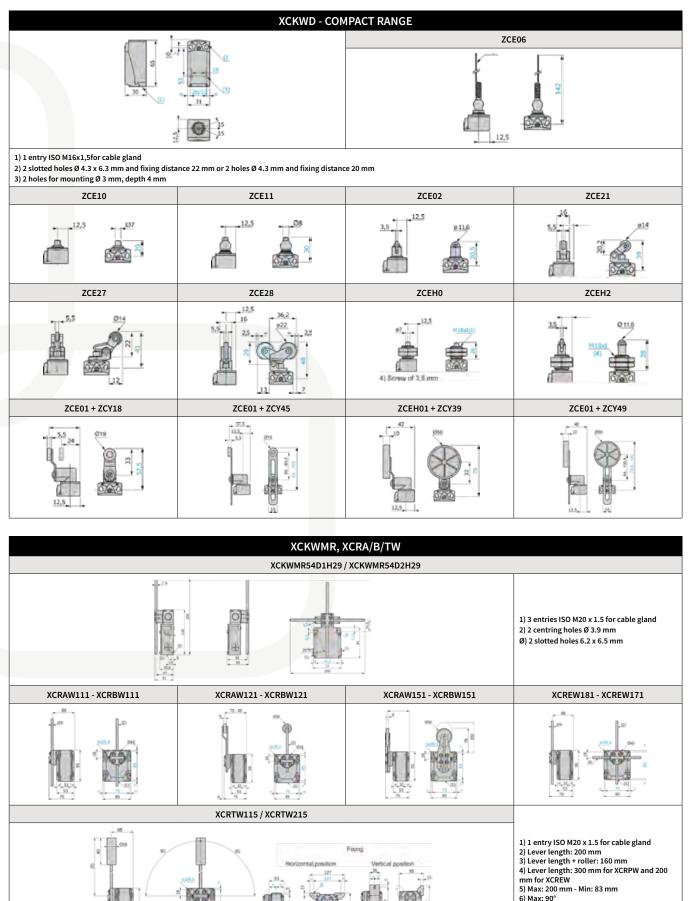
LIMIT SWITCHES XCK - XCR SERIES

Zones 1, 2, 21, 22



4

CONTROL & CONNECTION EQUIPMENT 😧



KEY-LOCK SAFETY SWITCHES WITH POSITIVE OPENING

Zones 1, 2, 21, 22

ATEX LIMIT SWITCHES

ZONES 1, 2 (gas) & 21, 22 (dust)

CONTROL & CONNECTION EQUIPMENT 😨 🛧



Ex-proof key-lock safety switches ideal to control gates, protections, carters and any moving mechanical part.

The stainless steel operating key has to be fixed to the mobile part of the protection.

The key is removed from the switch when opening the protection and a mechanism ensures the positive opening of the electric contact.

Applicable to any type of protection (hinged, removable or sliding). It is possible to operate the switch with a key allowing the restart only by inserting the same key.

Electrical power or timers not required.

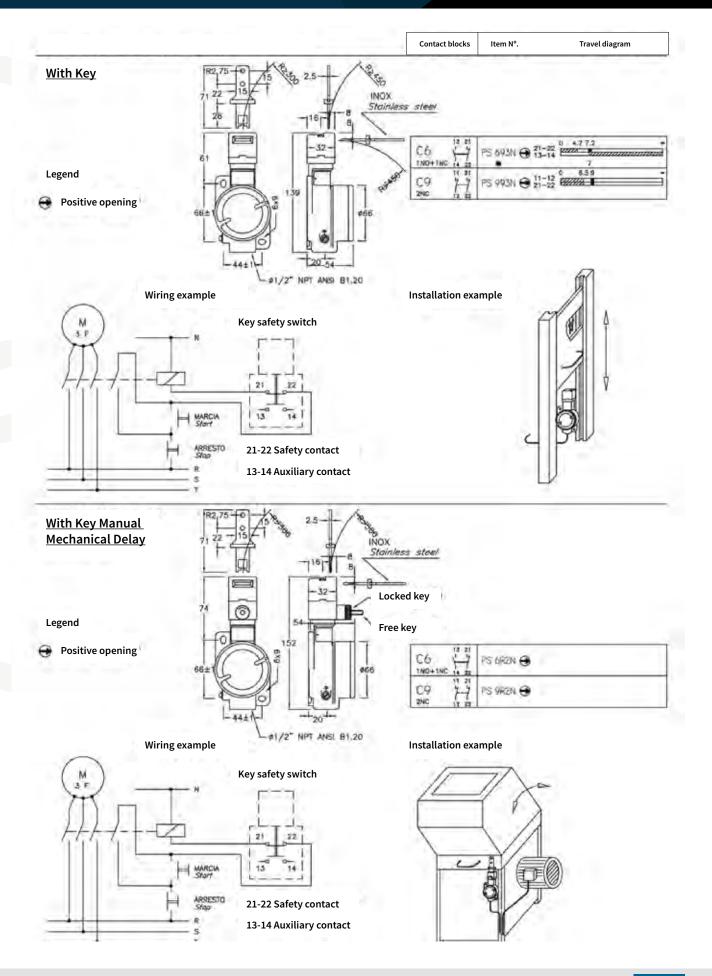


							TECH	INIC	AL SPE	CIFICATIO	NS					
Marking:							🚱 II 2G Ex d IIC T6/T5 Gb 🚯 II 2D Ex tb IIIC T85°C/T100°C Db									
Certificate	e:						EU-Type	e Exar	ninatio	n Certificat	e					
Housing:							Alumini	um liį	ght allo	y. Externale	epoxy RAL700	0				
Operating	tempei	rature:					-20°C to	+40°	с							
Ingress pr	otection	า:					IP66/67									
Frequency	y of ope	rations:					20/min (up to	+40°C							
Number o	f cycles	:					8 - 10 mi	illion	s							
Nominal c	urrent:						I: 10 A									
Insulating	voltage	:					Ui: 500 V	/ac/e	600 Vdc							
Impulse w	ithstan	d voltag	:				Uimp: 6 k	Jimp: 6 kV								
Short circ	uit curre	ent:					1000 AV									
Short circ	uit prot	ection:					Fuse 10	Fuse 10A 500 V								
Minimum	conduc	tor secti	on:				1.5 mm ²	2								
Max. curre	ent dens	sity:					5 A/mm ²	5 A/mm ²								
Cable ent	ries:						1 x 1/2" NPT. In option M20X1.5. (Cable gland not included)									
		CONTA	CT UN	IT							ELECTRIC	AL DIAG	RAM			
							D	Vpë .	Contact	Diagram	Operating	Type	Contocl	Diagram	Operatina	
		AC15			DC1		C	22	118:118	너너	Skin orten	C10	210-	11	See unter-	
	(50-60Hz) (d.c.)			¢	5	1102+110	-utal-	See other	CII	5WC	11	Stalip-auson				
U _e (V)	250	400	500	24	125	250	c	6	1ND+396	14 22		C14	270	7-7	See attor	
<u> </u>							C	.7	1104 116		Son Mart	C15	26	Son Ta	Side cellor	
I _e (A)	6	4	1	6	1.1	0.4	C	:9	210	17	(54) (de)	C20	- Ideathe	144	(manual)	

KEY-LOCK SAFETY SWITCHES WITH POSITIVE OPENING

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com



CABLE OPERATED SAFETY SWITCHES WITH POSITIVE OPENING

ZONES 1, 2 (gas) & 21, 22 (dust)

Zones 1, 2, 21, 22

ັນສໍາປະ

C20



Ex-proof cable operated safety switches ideal to control any moving mechanical parts especially conveyors.

Full catalogue available on our website: www.inpratex.com

Self-diagnostic for the correct operation of the unit by opening the contacts in case of cable loosening or breakage detection.

The version with reset includes the indicator of correct tension of the cable as well as a mechanical indicator of the status of the contacts. Contacts remain open after the intervention even if the cable is released.

Suitable for cables with free span up to 16 m and, with appropriate extensions, even beyond.

IECE_X

EU-Type Examination Certificate

(E

Certificate:	EU-Type Examination Certificate							
Housing:	Aluminium light alloy. Externalepoxy RAL7000							
Operating temperature:	-20°C to +40°C							
Ingress protection:	IP66/67							
Frequency of operations:	20/min up to +40°C							
Number of cycles:	8 - 10 millions							
Nominal current:	I: 10 A							
Insulating voltage:	Ui: 500 Vac / 600 Vdc							
Impulse withstand voltag:	Uimp: 6 kV							
Short circuit current:	1000 AV							
Short circuit protection:	Fuse 10A 500 V							
Minimum conductor section:	1.5 mm ²							
Max. current density:	5 A/mm ²							
Cable entries:	1 x 1/2" NPT. In option M20X1.5. (Cable gland not included)							
CONTACT UNIT	ELECTRICAL DIAGRAM							
	Type Contact Diagram Operating Type Contact Diagram Operatina							
AC15 DC13	C2 1881188 H Sea orter C10 =0 1 Sea orter							
(50-60Hz) (d.c.)	C5 TH0+1HC 1 10 20 00000 C11 7HC 1 5000 00000							
U _e (V) 250 400 500 24 125 25	0 C6 1407-380 14.15 1700 autors C14 210 14.17 300 autors C14 210 14.17 300 autors							
	C7 movine + Strate C15 are + severe							

TECHNICAL SPECIFICATIONS

🚯 II 2D Ex tb IIIC T85°C/T100°C Db

🚯 II 2G Ex d IIC T6/T5 Gb

I_e (A)

6

4

1 6 1.1

0.4

09

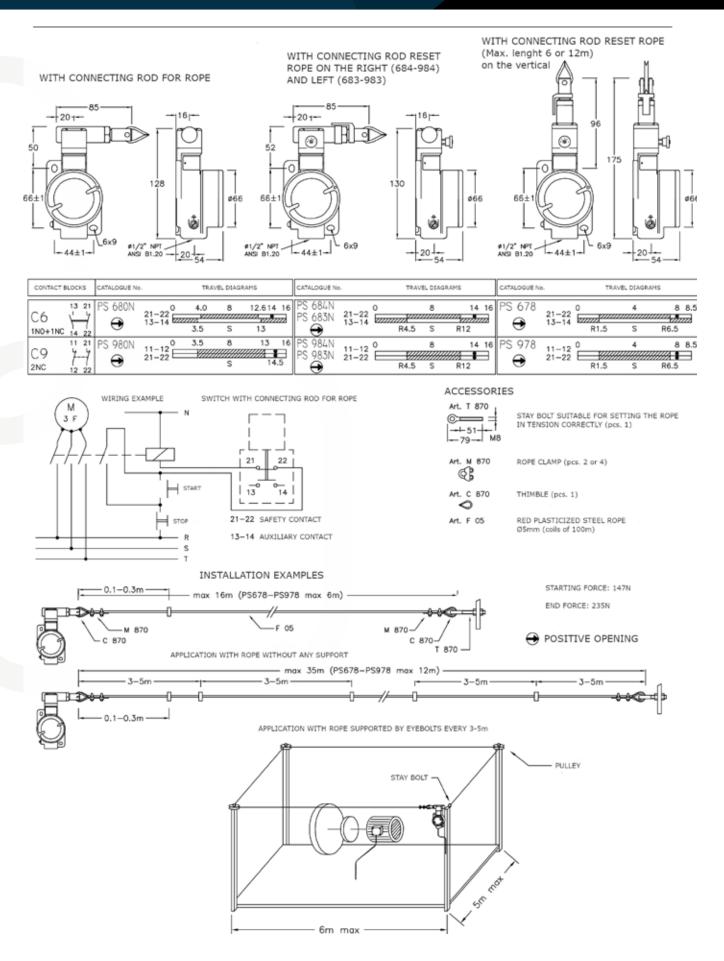
arid

Marking:

CABLE OPERATED SAFETY SWITCHES WITH POSITIVE OPENING

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com



BUOYANT OPERATED LIMIT SWITCHES

Zones 1, 2, 21, 22

ATEX LIMIT SWITCHES

ZONES 1, 2 (gas) & 21, 22 (dust)



Explosion-proof buoyant operated limit switch, certified for use in explosive atmosphere, zones 1 & 2 for gas and zones 21 & 22 for dust.

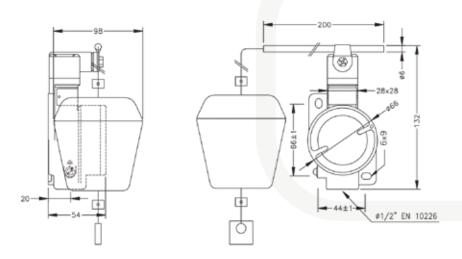
Buoyant in Moplen, cable in Nylon (2m) and counterweight in Zinc Plated Steel. Tags and screws in Stainless Steel.

The switch is normally supplied with actuator acting in both directions (actuator with float left or right).



ITEM REFERENCES					
Designation:	Contact type:	Contact:	Current(A):	Voltage (V):	Item No.:
PS 10AG	Single pole	1NA+1NC	l max = 10A	V max = 220V AC/DC	4D0401
PS 20AG	Double pole	2NA+2NC	l max = 10A	V max = 220V AC/DC	4D0402

	TECHNICAL SPECIFICATIONS			
Marking:	8 II 2G Ex d IIC T6/T5 Gb II 2D Ex tb IIIC T85°C/T100°C Db			
Certificate:	EU-Type Examination Certificate			
Housing:	Aluminium light alloy			
Colour:	External Epoxy RAL7000			
Operating temperature:	-20°C to +40°C			
Ingress protection:	IP66/67			
Cable entries:	1/2" NPT. M20X1.5 on request. (Cable gland not included)			



PULL-WIRE SWITCHES

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX LIMIT SWITCHES



ZONES 1, 2 (gas) & 21, 22 (dust)

The pull-wire switches are installed above or near conveyors, machines or installations which can not be secured by other devices such as protective covers.

They provide a reliable and proven solution for all situations where security is fundamental especially in potentially explosive atmospheres.

They are designed for explosive atmospheres gas/vapours or dust and meet the highest levels of protection.

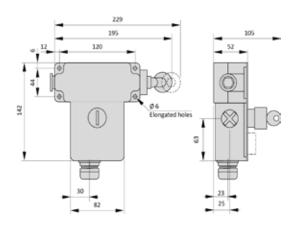




	ITEM REFERENCES		
Designation:	Operating anchoring cable point:	Contact:	Item No.:
Reset by booted push button	To left	1 x NC + NO	4D0601
Reset by booted push button	To right	1 x NC + NO	4D0603
Reset by key release push button - Key 421	To left	1 x NC + NO	4D0605
Reset by key release push button - Key 421	To right	1 x NC + NO	4D0607

	TECHNICAL SPECIFICATIONS		
Marking:	Ex de IIC T6 Gb Ex tb IIIC T85°C Db		
Certificate:	EU-Type Examination Certificate		
Housing:	Zamac, carbon steel		
Features of the contact block:	Umax = 250 V Imax = 3 A		
Mechanical endurance of the head:	Head: 5 million operations - Contact block: 1 million operations		
Operating temperature:	-20°C to +60°C		
Ingress protection:	IP65		
Cable entries:	1xM20 cable gland		

	ACCESSORIES					
Designation:		Item No.:				
53 53 MB	Cable pulley support	4D0609				
5	Pulley for Ø5 mm cable max.	4D0610				
\oslash	Cable end protector for cable Ø3,2 mm	4D0611				
D	Cable end protector for cable Ø5 mm	4D0612				
8	Swivelling cable support	4D0613				
	End spring	4D0614				



3 7.500L **TEK** EARTHING & BARTHING &

PTA 10 GROUNDING CLAMPS

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX GROUNDING CLAMPS

ZONES 1, 2 (gas) & 21, 22 (dust)



Grounding clamp indispensable whenever it is required the temporary grounding of tank trucks or tankers during transfer either of liquids or hazardous substances.

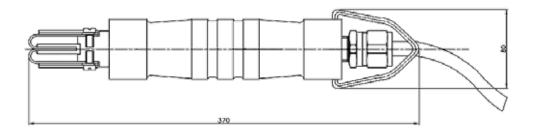
The fastening is secured by two brass springs of great strength.



ITEM REFERENCES					
Designation:	on: Insulation voltage: Gripping capacity: Current (A): Cable section: Item No.:				
PTA 10	3000 V	0,5mm ~ 3mm	l max = 10A	6 - 10 - 16 mm²	6D0401

TECHNICAL SPECIFICATIONS

Marking:	EX II 2G Ex d IIC T6/T5 II 2D Ex tD A21 T85°C - T100°C	
Certificate:	EU-Type Examination Certificate	
Sleeve:	Polyamide	
Anchor hook:	Stainless steel AISI 304	
Contact spring:	Brass	
Weight:	1 kg	
Operating temperature:	-20°C to +40°C	
Ingress protection:	IP65	
Cable entries:	1x1/2" NPT. Nickel plated cable gland (non armoured cable) External diameter (4 - 7 mm)	



Zones 1, 2, 21, 22

ATEX GROUNDING CLAMPS

ZONES 1, 2 (gas) & 21, 22 (dust)

ATEX certified grounding clamp specially designed for use in hazardous areas. Iseo I pliers are particularly suitable for equipping vehicles, tow trucks and tanks or to electrically ground mixing tanks.





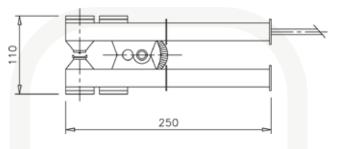
The electrical continuity is ensured by the carbonitrided steel contact tips which make a firm connection to any foothold having a thickness between 3 and 20 mm.

Equipped with tearingproof junction between the cable of the user and the one of the clamp.

		ITEM RE	FERENCES			
Designation:	Insulation voltage:	Gripping capacity:	Current (A):	Cable section:	Cable lenght:	Item No.:
ISEO I	3000 V	3mm ~ 20mm	l max = 10A	1 x 6 mm ²	11 m	6D0501

	APPLICATION						
Tanker trucks	Silos	Miscellaneous	Big Bags				

TECHNICAL SPECIFICATIONS			
Marking:	II 2G Ex d IIC T6		
Certificate:	EU-Type Examination Certificate		
Material:	Aluminium		
Contact tips:	Carbonitrided steel		
Ingress protection:	IP65		
Weight:	0,700 kg		
Operating temperature:	-20°C to +55°C		



NOTES

Check daily the sliding of the crimping rod within the body of the clamp. Keep the coupling clean and lubricated with silicone spray. This is necessary to ensure grounding while making sure that any disruptive discharges occur in the inner chamber, purposely isolated, and not in the external environment.

For correct operation of the clamp it is recommended a monthly check of the crimping plugs, subject to wear; this ensures a perfect contact with the terminal which are linked to. Check the integrity of the electrical cable to the ground terminal in the vicinity of the clamp itself; verify the electrical continuity (at least once a month).

For use in potentially explosive atmospheres caused by dusts the user must provide a regular cleaning to limit the formation of layers of dust.

ISEO II GROUNDING CLAMPS

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX GROUNDING CLAMPS

ZONES 1, 2 (gas) & 21, 22 (dust)

ATEX certified grounding clamp specially designed for use in hazardous areas. Iseo II pliers are the ideal tool for tanker loading platform equipped with electronic devices to signal correct grounding.



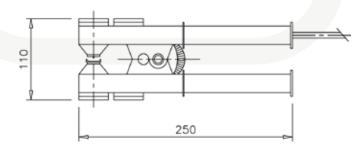


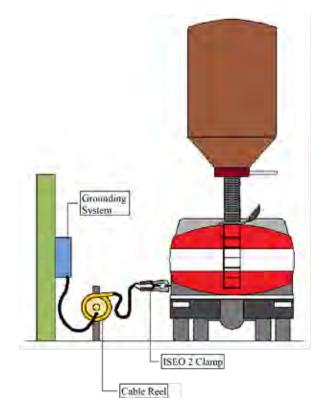
The electrical continuity is ensured by the carbonitrided steel contact tips which make a firm connection to any foothold having a thickness between 3 and 20 mm.

Equipped with tearingproof junction between the cable of the user and the one of the clamp.

		ITEM RE	FERENCES			
Designation:	Insulation voltage:	Gripping capacity:	Current (A):	Cable section:	Cable lenght:	Item No.:
ISEO II	3000 V	3mm ~ 20mm	l max = 10A	3 x 3 mm ²	11 m	6D0502

TECHNICAL SF	TECHNICAL SPECIFICATIONS			
Marking:	EX II 2G EX d IIC T6			
Certificate:	EU-Type Examination Certificate			
Material:	Aluminium			
Contact tips:	Carbonitrided steel			
Ingress protection:	IP65			
Weight:	0,700 kg			
Operating temperature:	-20°C to +55°C			





NOTES

Check daily the sliding of the crimping rod within the body of the clamp. Keep the coupling clean and lubricated with silicone spray. This is necessary to ensure grounding while making sure that any disruptive discharges occur in the inner chamber, purposely isolated, and not in the external environment.

For correct operation of the clamp it is recommended a monthly check of the crimping plugs, subject to wear; this ensures a perfect contact with the terminal which are linked to. Check the integrity of the electrical cable to the ground terminal in the vicinity of the clamp itself; verify the electrical continuity (at least once a month).

For use in potentially explosive atmospheres caused by dusts the user must provide a regular cleaning to limit the formation of layers of dust.

70SG PASSIVE GROUNDING CLAMPS WITH SPIRAL CABLE

ZONES 0, 1, 2 (gas) & 20, 21, 22 (dust)

Zones 0, 1, 2, 20, 21, 22

Full catalogue available on our website: www.inpratex.com

CE

EU-Type Examination Certificate

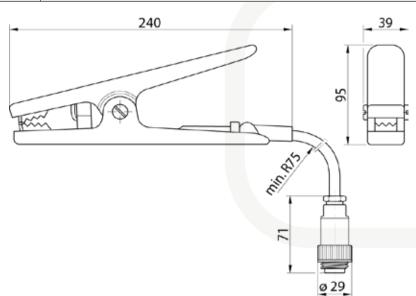


Passive ATEX grounding clamps for the temporary grounding of tank trucks or tankers during transfer either of liquids or hazardous substances. Electrostatic charges are discharged effectively

Supplied with 5m of orange spiral cable, assembled with an ELM00714 plug. (1 m extendable to max. 5 m).

		ITEM REFERENCES		
Designation:	Clamping width:	Clamping force:	Spiral cable lenght:	Item No.:
70SG	35 mm	140 N ±20%	5 m	6D0710

70SG CLAMP TECHNICAL SPECIFICATIONS		
Clamp Marking:	😥 1G B T6 Ga, 2G C T6 Gb, 1D T80°C Da	
Certificate:	EU-Type Examination Certificate	
Clamp material:	Stainless steel	
Operating temperature:	-20°C to +70°C	
Ground cable: (color: orange)	Oil and gasoline resistant control lead H07BQ-F, 3 x 1.5 mm ² Temperature range –40+90°C With fixed wire end ferrule 4-poles coupling plug	
Dimensions:	See fig	
Weight:	Approx. 0.6 kg	
Earth leakage resistance:	235 kOhm ±10%	
Max. discharge voltage:	I max = 10A	
Chemical resistance:	Oil and gasoline	



PROFI-LINE 106-1 GROUNDING CLAMPS

Zones 0, 1, 2, 20, 21, 22

Full catalogue available on our website: www.inpratex.com

E

ATEX GROUNDING CLAMPS

ZONES 0, 1, 2 (gas) & 20, 21, 22 (dust)

The grounding clamp PROFI-line 106-1 is suitable for all common applications in which the smallest components must be grounded. Due to the heavy design of the grounding clamp, it is also suitable for the roughest environmental conditions.

The stainless steel teeth are hardened and therefore particularly durable. When the grounding clamp is not in use, the teeth are protected by the existing relief holes in the clamp.



These grounding clamps are especially made for discharging electrostatic charge from potentially endangered system parts. Sharp stainless steel teeth get through insulating layers such as paint, rust, dirt and grease thanks to the high pressure of the spring. In this way an effective "metal-to-metal" connection can be created and a safe grounding guaranteed.

- Hardened stainless steel teeth for long life.

- Approval for Zone 0 and Zone 20 according to Directive 2014/34/EU.

- All metallic parts are made of stainless steel.

- High contact pressure of the clamp, due to a strong spring.

60 mm

ITEM REFERENCES	
Designation:	Item No.:
PROFI-line 106-1	6D0630

TECHNICAL SPECIFICATIONS		
Marking:	II 1G Ex h IIC T6 Gb II 1D Ex h IIIC T80°C Db	
Certificate:	EU-Type Examination Certificate	
Material:	Stainless steel 1.4310	
Side lenght:	60 mm	
Opening angle:	15 mm	
Connection type:	1-core via M3 eyelet (max. 4mm ²)	
Stainless steel teeth:	Hardened, 2 pieces (mounted on one leg side)	

PROFI-LINE 114-1 GROUNDING CLAMPS

Zones 0, 1, 2, 20, 21, 22

Full catalogue available on our website: www.inpratex.com

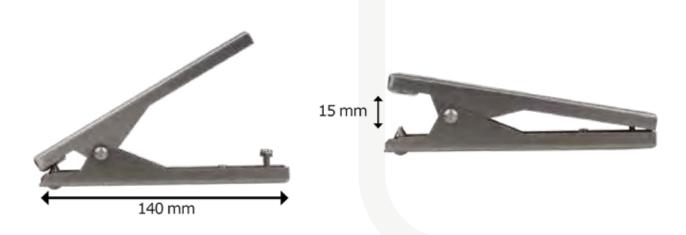
ATEX GROUNDING CLAMPS

ZONES 0, 1, 2 (gas) & 20, 21, 22 (dust)

The grounding clamp PROFI-line 114-1 is suitable for all common applications, such as grounding of drums, containers and canisters. Due to the heavy design of the grounding clamp, it is also suitable for the roughest environmental conditions.

The built-in stainless steel teeth are hardened and therefore particularly durable. When the grounding clamp is not in use, the teeth are protected by the existing relief holes in the clamp.





These grounding clamps are especially made for discharging electrostatic charge from potentially endangered system parts. Sharp stainless steel teeth get through insulating layers such as paint, rust, dirt and grease thanks to the high pressure of the spring. In this way an effective "metal-to-metal" connection can be created and a safe grounding guaranteed.

- Hardened stainless steel teeth for long life.

- Approval for Zone 0 and Zone 20 according to Directive 2014/34/EU.

- All metallic parts are made of stainless steel.

- High contact pressure of the clamp, due to a strong spring.

ITEM REFERENCES	
Designation:	Item No.:
PROFI-line 114-1	6D0640

TECHNICAL SPECIFICATIONS		
Marking:	EX II 1G Ex h IIC T6 Gb II 1D Ex h IIIC T80°C Db	
Certificate:	EU-Type Examination Certificate	
Material:	Stainless steel 1.4310	
Side lenght:	140 mm	
Opening angle:	15 mm	
Connection type:	1-core via M3 eyelet (max. 4mm ²)	
Stainless steel teeth:	Hardened, 2 pieces (mounted on one leg side)	

PROFI-LINE 123-1 GROUNDING CLAMPS

Zones 0, 1, 2, 20, 21, 22

Full catalogue available on our website: www.inpratex.com

C E

EU-Type Examination Certificate

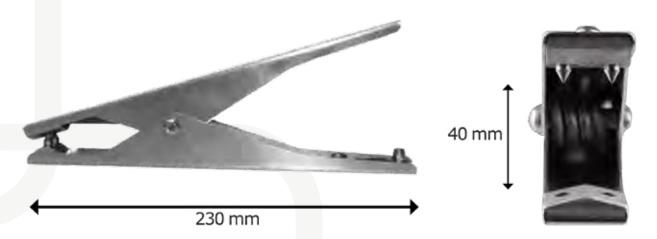
ATEX GROUNDING CLAMPS

ZONES 0, 1, 2 (gas) & 20, 21, 22 (dust)

The grounding clamp PROFI-line 123-1 is suitable for all common and rough application areas, such as grounding of drums, containers and canisters, as well as grounding of trucks, trucks and IBCs. Due to the heavy design of the grounding clamp, it is also suitable for the roughest environmental conditions.

The built-in stainless steel teeth are hardened and therefore particularly durable. When the grounding clamp is not in use, the teeth are protected by the existing relief holes in the clamp.

Due to the generous design, this clamp can be operated perfectly even when wearing gloves.



These grounding clamps are especially made for discharging electrostatic charge from potentially endangered system parts. Sharp stainless steel teeth get through insulating layers such as paint, rust, dirt and grease thanks to the high pressure of the spring. In this way an effective "metal-to-metal" connection can be created and a safe grounding guaranteed.

- Hardened stainless steel teeth for long life.

- Approval for Zone 0 and Zone 20 according to Directive 2014/34/EU.
- All metallic parts are made of stainless steel.

- High contact pressure of the clamp, due to a strong spring.

ITEM REFERENCES	
Designation:	Item No.:
PROFI-line 123-1	6D0650

TECHNICAL SPECIFICATIONS		
Marking:	II 1G Ex h IIC T6 Gb II 1D Ex h IIIC T80°C Db	
Certificate:	EU-Type Examination Certificate	
Material:	Stainless steel 1.4310	
Side lenght:	230 mm	
Opening angle:	40 mm	
Connection type:	1-core via M8 eyelet (max. 10mm ²)	
Stainless steel teeth:	Hardened, 2 pieces (mounted on one leg side)	

PROFI-LINE 115-1 GROUNDING CLAMPS

Zones 0, 1, 2, 20, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX GROUNDING CLAMPS

ZONES 0, 1, 2 (gas) & 20, 21, 22 (dust)



The grounding clamp PROFI-line 115-1 is suitable for all common applications in which unpainted containers, BIG-BAGs, pipes or container handles must be grounded. Due to the heavy construction of the grounding clamp it is also suitable for roughest environmental conditions.





These grounding clamps are especially made for discharging electrostatic charge from potentially endangered system parts. Sharp stainless steel teeth get through insulating layers such as paint, rust, dirt and grease thanks to the high pressure of the spring. In this way an effective "metal-to-metal" connection can be created and a safe grounding guaranteed.

- Hardened stainless steel teeth for long life.

- Approval for Zone 0 and Zone 20 according to Directive 2014/34/EU.

- All metallic parts are made of stainless steel.

- High contact pressure of the clamp, due to a strong spring.

ITEM REFERENCES	
Designation:	Item No.:
PROFI-line 115-1 mZ (strain relief)	6D0620
PROFI-line 115-1 oZ (no strain relief)	6D0621

TECHNICAL SPECIFICATIONS		
Marking:	II 1G Ex h IIC T6 Gb II 1D Ex h IIIC T80°C Db	
Certificate:	EU-Type Examination Certificate	
Material:	Stainless steel 1.4310	
Side lenght:	150 mm	
Opening angle:	45 mm	
Connection type:	1-pole via M8 eyelet (max 10mm²)	
Stainless steel teeth:	Trident (mounting opposite)	

PROFI-LINE 115 KAIMAN GROUNDING CLAMPS

Zones 0, 1, 2, 20, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX GROUNDING CLAMPS

ZONES 0, 1, 2 (gas) & 20, 21, 22 (dust)

The grounding clamp PROFI-line 115-KAIMAN is suitable for all common and rough application areas, such as grounding of drums, containers and canisters as well as grounding of trucks.

Due to the heavy design of the grounding clamp, it is also suitable for the roughest environmental conditions.

Due to the particularly high spring force, the grounding clamp also bites through the thickest layers of paint.



These grounding clamps are especially made for discharging electrostatic charge from potentially endangered system parts. Sharp stainless steel teeth get through insulating layers such as paint, rust, dirt and grease thanks to the high pressure of the spring. In this way an effective "metal-to-metal" connection can be created and a safe grounding guaranteed.

- Hardened stainless steel teeth for long life.

- Approval for Zone 0 and Zone 20 according to Directive 2014/34/EU.
- All metallic parts are made of stainless steel.
- High contact pressure of the clamp, due to a strong spring.

ITEM REFERENCES	
Designation:	Item No.:
PROFI-line 115-KAIMAN mZ (strain relief)	6D0660
PROFI-line 115-KAIMAN oZ (no strain relief)	6D0661

TECHNICAL SPECIFICATIONS		
Marking:	II 1G Ex h IIC T6 Gb II 1D Ex h IIIC T80°C Db	
Certificate:	EU-Type Examination Certificate	
Material:	Stainless steel 1.4310	
Side lenght:	150 mm	
Opening angle:	42 mm	
Connection type:	1-core via M8 eyelet (max. 16mm ²)	
Stainless steel teeth:	Hardened, 2 pieces (mounted opposite)	





Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX GROUNDING CLAMPS

ZONES 1, 2 (gas) & 21, 22 (dust)





The HM-ES hand magnet is the ideal solution when safe earthing of drums and containers is required, but the space for a normal earthing clamp is not available.

The flat-fitting housing can either be mounted on top of the drum lid by magnetic force or held on the side of the drum by magnetic force.

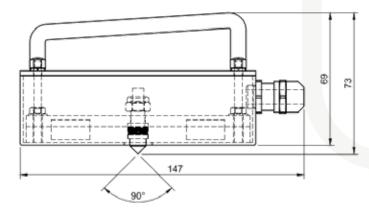
The two tips of the hand magnet connect to the painted base of the barrel by slight manual rubbing, thus establishing a secure connection to the good earth.

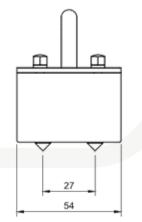
This magnet is designed as a simple earthing solution without monitoring.



ITEM REFERENCES		
Designation:	Item No.:	
HM-ES with 1m smooth steel cable, green, 4mm ²	6D0724	
HM-ES with 3m smooth steel cable, green, 4mm ²	6D0725	
HM-ES with 5m smooth steel cable, green, 4mm ²	6D0726	
HM-ES with 1m plain steel cable, green/yellow, 4mm ²	6D0727	
HM-ES with 3m plain steel cable, green/yellow, 4mm ²	6D0728	
HM-ES with 5m plain steel cable, green/yellow, 4mm ²	6D0729	

TECHNICAL SPECIFICATIONS		
Marking:	😥 II 2G Ex h IIB T6 Gb 😥 II 2D Ex h IIB T80°C Db	
Certificate:	EU-Type Examination Certificate	
Material:	Stainless steel 1.4301 (V2A)	
Dimensions:	147x54x73mm	
Stainless steel teeth:	Hardened, 2 pieces	
Scope of application:	pplication: Painted and unpainted containers with a volume over 50 litres	





SPIRAL CABLE, STEEL (1 CORE)

Full catalogue available on our website: www.inpratex.com

ATEX GROUNDING



For use in hazardous areas according to EN 60079-14.

The steel spiral cables offer superior mechanical strength.

The cable withstands continuous daily use and is extremely resistant to acids, alkalis, mineral oils, greases and other chemicals due to its cable coating.

These spiral cables meet all requirements of the standards EN 60079-0 and EN 60079-14 and may be used accordingly in potentially explosive atmospheres.

The spiral cables are free of silicone.

The cable ends can be assembled with eyelets at no extra charge.



ITEM REFERENCES				
Designation:	Cable colour:	Core:	Block length:	Item No.:
1m straight cable	Green	Steel-core	-	A179008
3m spiral cable	Green	Steel-core	160 mm	A173019
5m spiral cable	Green	Steel-core	260 mm	A173020
10m spiral cable	Green	Steel-core	600 mm	A173021
1m straight cable	Green/Yellow	Steel-core	-	A173010
3m spiral cable	Green/Yellow	Steel-core	160 mm	A173022
5m spiral cable	Green/Yellow	Steel-core	260 mm	A173023
10m spiral cable	Green/Yellow	Steel-core	600 mm	A173024

TECHNICAL SPECIFICATIONS		
Cable type:	ST-Li2Y	
Cable colour:	Green or Green / Yellow	
Cross section:	4 mm ²	
Wire type:	Steel cable	
Ambient temperature:	-40°C+80°C	

ATEX GROUNDING

The copper spiral cables offer extremely high flexibility. The copper core used consists of 226 individual copper strands, which minimize the risk of cable breakage. The cable coating protects well against acids, alkalis, mineral oils, greases and other chemicals.

These spiral cables meet all requirements of the standards EN 60079-0 and EN 60079-14 and may be used accordingly in explosive areas.

The spiral cables are free of silicone. The cable ends can be assembled with eyelets at no extra charge.

For use in hazardous areas according to EN 60079-14.





		ITEM REFERENCES		
Designation:	Cable colour:	Cross section:	Block length:	Item No.:
1m straight cable	Green/Yellow	4 mm ²	-	A179010
1m spiral cable	Green/Yellow	4 mm ²	100 mm	A416106
3m spiral cable	Green/Yellow	4 mm ²	600 mm	A416123
5m spiral cable	Green/Yellow	4 mm ²	1000 mm	A416107
10m spiral cable	Green/Yellow	4 mm ²	2000 mm	A416108
1m spiral cable	Green/Yellow	2,5 mm ² (according to TRGS 727)	100 mm	A179013
3m spiral cable	Green/Yellow	2,5 mm ² (according to TRGS 727)	600 mm	A416332
5m spiral cable	Green/Yellow	2,5 mm ² (according to TRGS 727)	1000 mm	A416333

TECHNICAL SPECIFICATIONS		
Cable type:	LIF11Y11Y, 226x0,15mm	
Cable colour:	Green / Yellow	
Cross section:	4 mm ² /2,5 mm ²	
Wire type:	Copper	
Ambient temperature:	-40°C+80°C	

REWINDING CABLE REELS FOR PASSIVE GROUNDING TYPE 601 KR/EW

Full catalogue available on our website: www.inpratex.com

ATEX EARTHING SYSTEMS

ZONES 1, 2 (gas) & 21, 22 (dust)

The 601KR/EW rewinding cable reel is available in an impact-resistant aluminum casing and can hold a grounding cable of up to 12 m. For use without ground monitoring system in Zones 1, 2, 21 and 22. It is supplied with 70PK type clamp.

This reel is designed for wall mounting, but can also be swivel-mounted using a mounting bracket. A coupling plug can be used to easily connect the passive 70PK clamp with the coupling bushing of the grounding cable.



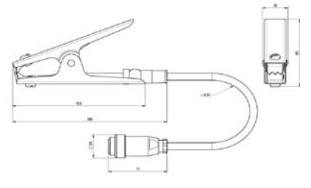


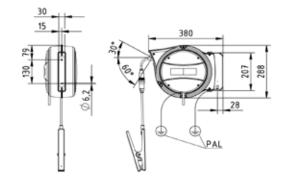
		ITEM REFERENCES		
Designation:	Cable lenght:	Connection cable lenght:	Weight:	Item No.:
601KR/EW - 70PK	12 m	2,5 m	Approx. 6 kg	6D0701

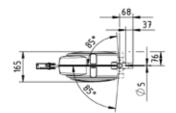
70 PK CLAMP TECHNICAL SPECIFICATIONS		
Marking:	😥 1G B T6 Ga, 2G C T6 Gb, 1D T80°C Da	
Certificate:	EU-Type Examination Certificate	
Clamp material:	Stainless steel	
Operating temperature:	-20°C to +70°C	
Ground cable: (color: orange)	Oil and gasoline resistant control lead, 3 x 1.5 mm ² Temperature range -40+90°C Connected 4-pin plug IP67	
Dimensions:	See figure	
Weight:	Approx. 0.29 kg	
Clamping width:	35 mm	
Clamping force:	100 N ±20%	
Earth leakage resistance:	< 1 Ohm	

601KR/EW CABLE REWINDER TECHNICAL SPECIFICATIONS

Marking:	UI 2G Ex ia IIC T6 Gb
Certificate:	EU-Type Examination Certificate
Enclosure:	Aluminium with rolls and stopper
Ingress protection:	IP42 according to EN 60529
Operating temperature:	-40°C to +70°C
Attachment:	Wall assembly via assembly bracket
Ground cable: (12 M)	Oil and gasoline resistant control lead, 3 x 1.5 mm ² Temperature range –40+90°C Connected 4-pin socket IP67
Connecting lead:	2.5 m, connecting cable 3 x 1,5 mm ²
Dimensions:	See figure
Weight:	Approx. 5.7 kg with 12 m ground cable
Inductance:	Approx. 0.07 mH
Capacitance:	Approx. 1.6 nF







REWINDING CABLE REELS FOR PASSIVE GROUNDING (1 CORE)

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX EARTHING SYSTEMS

ZONES 1, 2 (gas) & 21, 22 (dust)

The use of grounding reels is particularly useful in places where exposed cables are not required. The extremely stable stainless steel housing of the grounding reels protects especially against external environmental impacts.

The used steel or stainless steel cables are twisted and of highest strength. The end of the cable is equipped with a rubber bumper to cushion unwanted retraction.

The cable ends can be assembled with eyelets at no extra charge.







ITEM REFERENCES		
Designation:	Lenght:	Item No.:
Grounding reel type 1 with steel cable, blue coated, 2mm ²	7 m	6D0720
Grounding reel type 2 with steel cable, blue coated, 2mm ²	15 m	6D0721
Grounding reel type 3 with stainless steel cable, blank, 4mm ² (Version for clean rooms, bare steel cable, no coating)	7 m	6D0722
Grounding reel type 4 with stainless steel cable, blank, 4mm ² (Version for clean rooms, bare steel cable, no coating)	15 m	6D0723

TECHNICAL SPECIFICATIONS		
Marking:	II 2G Ex h IIC T6 Gb	
Certificate:	Declaration of Conformity	
Ambient temperature:	-40°C to +80°C	
Material of the case:	Stainless steel V2A	
Cable type:	Steel cable, blue coated or Stainless steel cable, blank	
Cross section:	2,0 mm ² / 4,0 mm ²	

ACCESSORIES		
Designation:	Item No.:	
Clamp storage for wall mounting	6D0730	

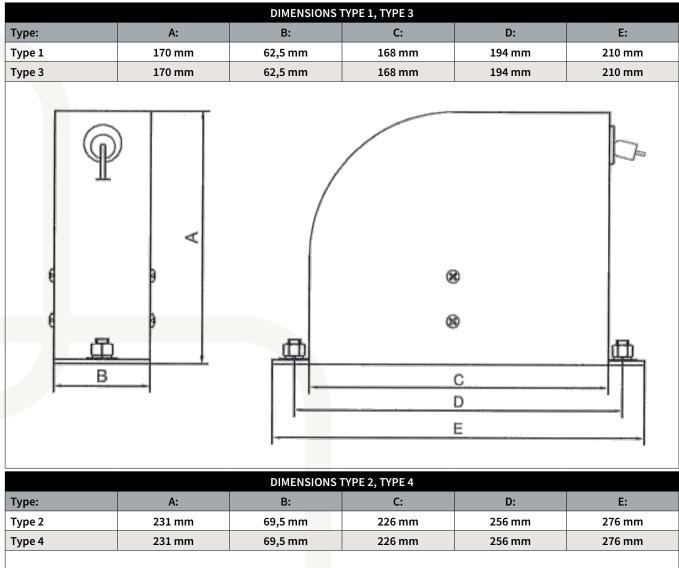
The clamp storage provides the optimal hold for all grounding clamps and ensures that they are stored properly so that they do not lay on the floor. It is mounted using M6 screws.

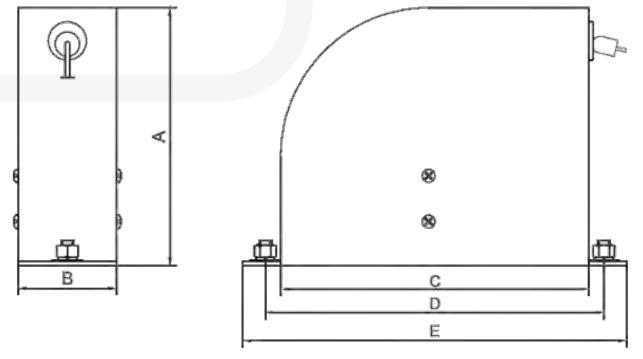


REWINDING CABLE REELS FOR PASSIVE GROUNDING (1 CORE)

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com





Zones 1, 2, 21, 22

ATEX EARTHING SYSTEMS

ZONES 1, 2 (gas) & 21, 22 (dust)

ECS-R series electronic equipment provides earth connection of process equipment (road tankers, drums, IBCs, etc..) with real-time ground connection monitoring. The system monitors that connection to earth is obtained with a resistance lower than 10Ω , according to the ATEX Directive 2014/34/EU.

The device can be equipped with two Ex i outputs for remote LEDs installed directly on the clamp (consensus green LED and non consensus red LED).

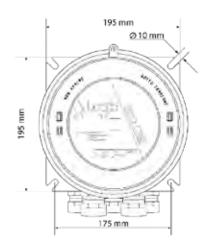
- Compact and rugged Ex-d enclosure suitable for ATEX Zone 1/21 installation

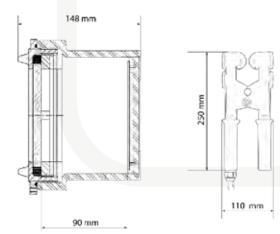
- Equipped with high efficiency redundant green and red LEDs for connection monitoring



ITEM REFERENCES				
Designation:	SIL:	Spiral cable lenght:	Weight:	Item No.:
ECS-RF-SP5-IS1L-HK01	SIL 2	5 m	Approx. 6 kg	6D0902

TECHNICAL SPECIFICATIONS			
Marking:	EX II 2(1)G Ex d[ia Ga] IIC T6 Gb II 2(1)D Ex tb[ia Da] IIIC T85°C Db		
Certificate:	EU-Type Examination Certificate		
Operating temperature:	-20°C to +55°C		
Clamp input Ex i:	Uo=7.2V, Io=345mA, Po=621mW, Co(IIC)=13.5μF, Lo(IIC)=149μH, Lo/Ro=860 μH/Ω		
Output LED Ex i:	Uo=7.2V, Io=23mA, Po=42mW, Co(IIC)=13.5μF, Lo(IIC)=34μH, Lo/Ro=860 μH/Ω		
Power supply:	230 VAC ± 5%		
Standard cable:	6-wire spiral cable, according to IEC 60332-1-2		
R threshold:	10 Ω		
Dimensions:	195 x 195 x 148 mm		
Potential free contact:	COM/NC/NO		
Cable entries:	5xM20x1,5 1 - Grounding clamp 2 - Grounding cable	3 - Redundancy ground wire 4 - Power cable 5 - Potential free contact cable (if not used, install the plug provided)	





CLP-CODE MONITORING SYSTEM

Zones 1, 2, 21, 22

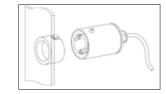
ATEX EARTHING SYSTEMS

ZONES 1, 2 (gas) & 21, 22 (dust)

The CLP-CODE device is part of the ECS for earthing connections of production machinery (dispensers, grinding mills, etc.).

Thanks to the mechanical coding, which makes it unique in this field of application, this equipment is able to detect if the connection to earth is obtained with a resistance to earth less or equal to 10Ω .

The device is equipped with 2 LEDs (green and red) installed directly on board.





ITEM REFERENCES			
Designation:	Installed in:	Cable lenght:	Item No.:
CLP-CODE - ECS-RF-DIN - 5	Safe area	5 m	6D0903
CLP-CODE - ECS-RF-DIN - 10	Safe area	10 m	6D0904
CLP-CODE - ECS-RF - 5	Hazardous area	5 m	6D0905
CLP-CODE - ECS-RF - 10	Hazardous area	10 m	6D0906

The ECS-RF-DIN device provides n.1 channel signal conditioning for earth connection of process equipment (IBC, drums, roadtankers, etc.). The system detects in real-time if the connecttion to earth is obtained with a resistance less or equal to 10Ω .

The device is equipped with SPST NO contact with a safety integrity level up to SIL2, according to EN 50495, and high-efficiency redundant green and red LEDs for earth connection monitoring.

- N.1 x SPDT contact for clamp state remote monitoring.
- N.1 x N.O. contact for safety applications up to SIL2.

- N.2 x intrinsically safe outputs for the clamp's remote LEDs.

TECHNICAL SPECIFICATIONS ECS-RF-DIN (SAFE AREA)			
Marking:	II (1)G [Ex ia Ga] IIC		
Certificate:	EU-Type Examination Certificate		
Operating temperature:	-20°C to +70°C		
Clamp input Ex i:	Uo=7.2V, Io=345mA, Po=621mW, Co(IIC)=13.5μF, Lo(IIC)=149μH, Lo/Ro=860 μH/Ω		
Output LED Ex i:	U0=7.2V, I0=23mA, P0=42mW, Co(IIC)=13.5μF, Lo(IIC)=34μH, Lo/R0=860 μH/Ω		
Power supply:	230 VAC ± 5%		
Standard cable:	Extension cable CAB-ECS6C1.0		
R threshold:	10 Ω		
Dimensions:	The second bood bood bood bood bood bood bood b		

ECS-R series electronic equipment provides earth connection of process equipment (road tankers, drums, IBCs, etc..) with realtime ground connection monitoring. The system monitors that connection to earth is obtained with a resistance lower than 10Ω, according to the ATEX Directive 2014/34/EU.

The device can be equipped with two Ex i outputs for remote LEDs installed directly on the clamp (consensus green LED and non consensus red LED).

	TECHNICAL SPECIFICATIONS ECS-RF (HAZAF	RDOUS AREA)		
Marking:	(I) 2(1)G Ex d[ia Ga] IIC T6 Gb II 2(1)D Ex tb[ia Da] IIIC T85°C Db			
Certificate:	EU-Type Examination Certificate			
Operating temperature:	-20°C to +55°C	-20°C to +55°C		
Clamp input Ex i:	U0=7.2V, I0=345mA, P0=621mW, Co(IIC)=13.5µF, Lo(II	C)=149μH, Lo/Ro=860 μH/Ω		
Output LED Ex i:	Uo=7.2V, Io=23mA, Po=42mW, Co(IIC)=13.5µF, Lo(IIC)=	=34μH, Lo/Ro=860 μH/Ω		
Power supply:	230 VAC ± 5%			
Standard cable:	6-wire spiral cable, according to IEC 60332-1-2			
R threshold:	10 Ω			
Potential free contact:	COM/NC/NO			
Cable entries:	5xM20x1,5 1 - Grounding clamp 2 - Grounding cable	 3 - Redundancy ground wire 4 - Power cable 5 - Potential free contact cable (if not used, install the plug provided) 		
Dimensions:	195 mm 0 10	148 mm		

The CLP-CODE meets the requeriments for application in ATEX Zone 1/21, connected to the monitoring systems of the ECS range.

TECHNICAL SPECIFICATIONS CLP-CODE CLAMP			
Area of use:	Up to ATEX Zone 1/21		
Material:	Stainless steel AISI304		
Operating temperature:	-20°C to +50°C		
Contact:	Double steel alloy tip with carbonitriding treatment		
Standard cable:	Spiral cable, 5/10m long, wire section 0,5 mm ² , Ø8 mm		
R threshold:	10 Ω		
Dimensions:			

EX-SYMEGA-VO EARTHING SYSTEM

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX EARTHING SYSTEMS

ZONES 1, 2 (gas) & 21, 22 (dust)



The earthing system Ex-SYMEGA-VO serves to avoid electrostatic charges in hazardous areas and ensures a secure connection of stationary and mobile, metallic or conductive and dissipative objects and a good earth.

This ATEX earthing system visualizes the presence of a good earth via green LED and, if connected, can enable or interrupt the subsequent process via potential-free changeover contacts.

The earthing system Ex-SYMEGA-VO can operate in two different variations:

Variation 1: Low-resistance measurement of 0...1 kOhm or 103 Ohm. Variation 2: High-resistance measurement of 0...3 MOhm or 3x106 Ohm.









ITEM REFERENCES	
Designation:	Item No.:
Ex-SYMEGA-VO Earthing System	6D0601
5m Spiral Cable, Blue, 2 Core	6D0602
PROFI-line 123-2 Earthing Clamp	6D0603

TECHNICAL SPECIFICATIONS			
Marking:	 II (1) 2G Ex eb ia mb IIC T4 Gb II (1) 2D Ex ia tb T120℃ Db 		
Certificate:	EU-Type Examination Certificate		
Operating voltage:	AC 85V to 264V DC 8V to 28V		
Maximum voltage:	AC 275V DC 375V		
Power consumption:	<1W		
Resistance Measurements:	Low: 01 kOhm or 103Ohm High: 03 MOhm or 3x106Ohm		
2 Potential-free changeover contacts:	1NO + 1NC		
Switching current per changeover contact (8V to 28V DC):	max. 2A		
Switching current per changeover contact (85V to 264V AC):	max. 6A		
Housing:	Aluminium		
Housing dimensions:	220x122x90 mm		
Housing seal:	EPDM (Silicone free)		
Operating temperature:	-20°C to +40°C		
Ingress protection:	IP64		
Cable entries:	4 Plastic cable gland (non armoured cable). External diameter (5 - 9 mm)		

TERRALIGHT GROUND MONITORING SYSTEM

Zones 1, 2, 21, 22

ATEX EARTHING SYSTEMS

ZONES 1, 2 (gas) & 21, 22 (dust)

The TERRALIGHT ground monitoring system is designed for use when filling or discharging potentially explosive materials. The system effectively eliminates any static charges. This system monitors the connection to the bonding conductor and the contact across the ground clamps. TERRALIGHT is designed for connecting one ground clamp or a cable rewinder fitted with ground clamp.



Option 1: TERRA-L Ground Monitoring System 601KR/DW Cable Rewinder 70AG Earthing Clamp

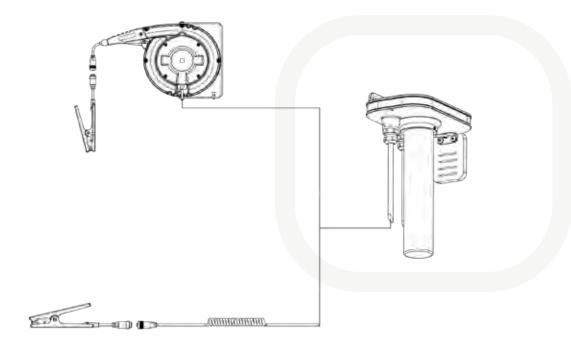


Option 2: TERRA-L Ground Monitoring System 5m Helix Cable KG/BSA, blue 70AG Earthing Clamp





ITEM REFERENCES OPTION 1		ITEM REFERENCES OPTION 2	
Designation:	Item No.:	Designation:	Item No.:
TERRA-L Ground Monitoring System	6D0801	TERRA-L Ground Monitoring System	6D0801
601KR/DW Cable Rewinder	6D0812	5m Helix Cable KG/BSA, blue	6D0813
70AG Earthing Clamp	6D0821	70AG Earthing Clamp	6D0821



TERRALIGHT GROUND MONITORING SYSTEM

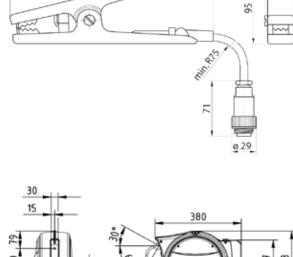
Zones 1, 2, 21, 22

70AG CLAMP TECHNICAL SPECIFICATIONS				
Marking:	😥 II 2D Ex ia IIIC T135°C Db, II 2G Ex ia IIC T6 Gb			
Certificate:	EU-Type Examination Certificate			
Clamp material:	Stainless steel			
Operating temperature:	-20°C to +70°C			
Ground cable: (color: light blue)	Oil and gasoline resistant control lead, 3 x 1.5 mm ² Temperature range –40+90°C Connected 4-pin plug IP67			
Dimensions:	See figure			
Weight:	Approx. 0.6 kg			

The ATEX cable rewinders of series 601KR/DW ensure that the ground cable is safely reeled back after use, protecting it from damage and dirt. These cable rewinders are made of impact-proof aluminum and are mounted with an assembly bracket.

All cable rewinders are designed for wall mounting and may be used in zones with potentially explosive atmospheres in connection with the ground monitoring system.

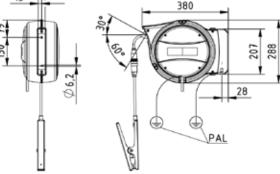


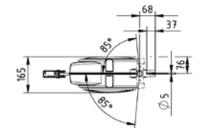


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Full catalogue available on our website: www.inpratex.com

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601KR/D	601KR/DW CABLE REWINDER FOR ACTIVE GROUNDING TECHNICAL SPECIFICATIONS				
Marking:	II 2G Ex ia IIC T6 Gb II 2D Ex ia IIIC T135°C Db				
Certificate:	EU-Type Examination Certificate				
Enclosure:	Aluminium with rolls and stopper				
Rewind mechanism:	Automatic, Stopping device, On-Off function				
Ingress protection:	IP42 according to EN 60529				
Operating temperature:	-40°C to +70°C				
Attachment:	Wall assembly via assembly bracket				
Ground cable: (cable color: light blue)	12 m oil and gasoline resistant control lead, 3x1.5 mm ² Temperature range –40+90°C Connected 4-pin socket IP67				
Connecting lead:	2.5 m, connecting cable 3x1,5 mm ²				
Dimensions:	See figure				
Weight:	Approx. 5,7 kg with 12 m ground cable				
Inductance:	Approx. 0.07 mH				
Capacitance:	Approx. 1,6 nF				

Zones 1, 2, 21, 22



The controlled grounding principle used in the TERRALIGHT Ground Monitoring System ensures that static charges developing in potentially explosive atmospheres, e.g. during loading, discharging or refilling are safely avoided.

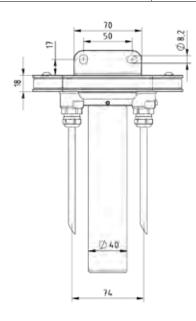
This means that the risk of ignition caused by uncontrolled static discharges is eliminated at source. Because the ground connection is monitored, there is no need for low-resistance ground connections or large conductor cross-sections.

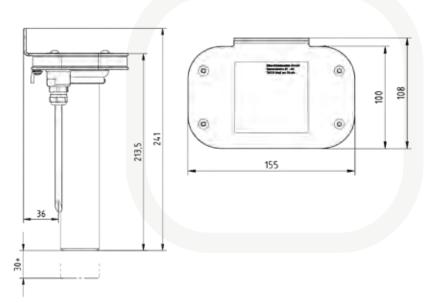
The advantages of the TERRALIGHT ground monitoring system are:

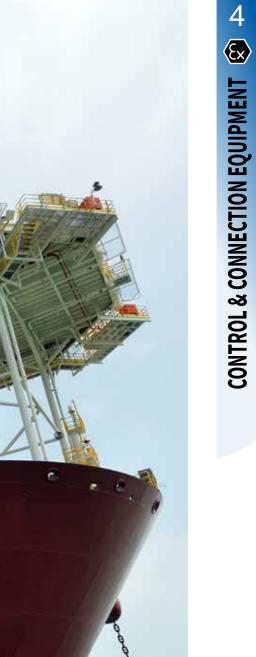
- easy and fast assembly and installation
- power supply via batteries, no external power supply necessary

• Configuration of the LED display (flashing, frequency) to the application to optimize the battery life

	TERRA-L TECHNICAL SPECIFICATIONS
Marking:	II 1G Ex ia IIC T4 Ga
Certificate:	EU-Type Examination Certificate
Supply voltage:	Supply via 3 x 1.5 V D cells. Yellow LEDs indicate a low battery voltage
Operating temperature:	-18°C to +50°C
Storage temperature:	-40°C to +80°C (without battery)
Ambient humidity:	Max. 80% r.h., non-dewing
Enclosure material:	Stainless steel with wall bracket
Ingress protection:	IP65 according to EN 60529
Dimensions:	240.5 x 155 x 108 mm
Weight:	1.75 kg
Measurement circuit:	Intrinsically safe according to EN 60079-11 Maximum voltage Uo: 6.0 V DC Maximum current Io: 0.25 A Maximum output Po: 0.36 W Maximum permissible connected load capacity / inductance: Co : 1,49 μF, Lo : 630 μH
Operating points:	ON <20 kOhm OFF >50 kOhm / ±20%
Permissible types of battery :	D cells - Duracell Plus Power MN 1300 ENERGIZER MAX LR20 ENERGIZER LR20 ALKALINE POWER













5 - EXPLOSION-PROOF ENCLOSURES

Custom-made Ex d explosion-proof cabinets certified for use in explosive atmospheres. These enclosures are designed to contain regular industrial electrical components or equipment on the mounting plate like fuses, transformers, circuit breakers, relays, PLC etc. and to be fully integrated in the hazardous area as control or distribution panel.

We provide completely finished and certified custom solutions: Ex d enclosures equipped with the necessary elements to meet the specific needs of each application.

All our flameproof enclosures are supplied with the following documentation:

CE Marking. ATEX Marking. Manufacturing drawings. Declaration of Conformity. Instruction manuals.

5.1 - CUSTOM-MADE EXPLOSION-PROOF ENCLOSURES2945.2 - BOXES FOR EQUIPMENT AND INSTRUMENTATION304



EX D ENCLOSURES

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

Ex d ENCLOSURES

ZONES 1, 2 (gas) & 21, 22 (dust)

Ex d explosion-proof enclosures made of aluminium light alloy for the installation of non-ATEX electrical equipment in hazardous areas. Excellent corrosion resistance.





Painting: Epoxy RAL 7000

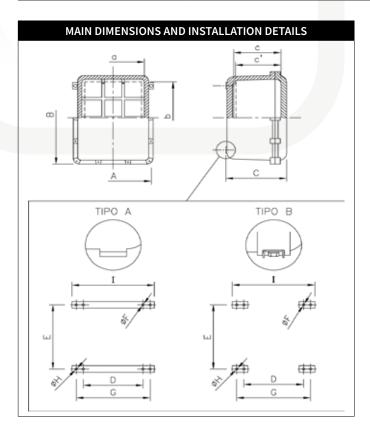
Internal anti-condense painting RAL 2004.

External screws in Stainless Steel.

Fixing brackets and lugs in zinc plated steel.

No empty enclosures supplied (ATEX U)

	TECHNICAL SPECIFICATIONS
Marking:	€ II 2G Ex d IIB+H₂ T6-T3 Gb € II 2D Ex tb IIIC T85°C-T200°C Db
Certificate:	EU-Type Examination Certificate
Material:	Aluminium
Operating temperature:	-25°C to +40°C
Ingress protection:	IP66
Cable entries:	Metric NPT



Custom-made Ex d enclosures according to the diameter, quantity and position of the cable entries or the type and quantity of accessories on the cover (push buttons, signal lights, levers, emergency mushrooms).

Possibility of manufacturing with rectangular or circular window in tempered glass, with internal or external frames, which facilitate the visual inspection of the elements installed inside.

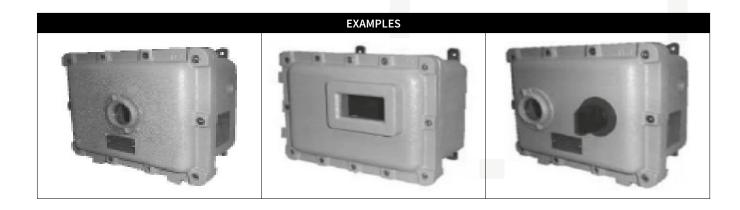
Operating temperature range from -50°C to +60°C on request.

Standard delivery with RAL 7000 epoxy painting and RAL 2004 anti-condensation internal coating. Possibility of supply with finishes according to customer requirements.

Suitable for:

- Connection boards
- Control boxes
- Measurement and control instrumentation
- Installation of electrical equipment (fuses, relays,
- disconnectors, transformers, etc.)
- Installation of electronic equipment

						ITEM	REFERE	INCES							
Model:		Externa nsions (Internal dimensions (mm):			Installation template (mm):						Weight		
	A	В	с	а	b	с	c'	Туре	D	E	F	G	н	I	(kg):
CCF 0G	150	150	127	93	93	96	94	Α	104	60	M6	140	7	160	3,2
CCF 1G	150	200	127	93	143	96	94	A	104	110	M6	140	7	160	4,1
CCF 2G	200	250	150	140	190	124	122	A	154	160	M6	190	7	210	6,8
CCF 3G	250	300	150	175	225	117	112	Α	185	180	M6	230	9	255	10,6
CCF 3AG	250	300	200	175	225	167	162	A	185	180	M6	230	9	255	11,9
CCF 4G	250	350	150	175	275	117	112	A	185	230	M6	230	9	255	12,0
CCF 4AG	250	350	200	175	275	167	162	A	185	230	M6	230	9	255	13,3
CCF 5G	300	400	200	218	318	164	159	A	225	275	M8	275	9	300	18,0
CCF5AG	300	400	250	218	318	214	209	A	225	275	M8	275	9	300	20,0
CCF 6G	300	450	200	218	368	164	159	A	225	325	M8	275	9	300	20,0
CCF 6AG	300	450	250	218	368	214	209	Α	225	325	M8	275	9	300	22,5
CCF 7G	400	500	200	305	405	152	150	В	315	350	M8	370	9	400	31,0
CCF 7AG	400	500	250	305	405	202	200	В	315	350	M8	370	9	400	34,0
CCF 8G	350	550	200	255	455	152	150	A	265	400	M10	320	11	350	31,0
CCF 8AG	350	550	250	255	455	200	200	Α	265	400	M10	320	11	350	34,0
CCF 9G	400	600	200	300	500	145	143	Α	315	450	M10	370	11	400	38,0
CCF 9AG	400	600	250	300	500	195	193	Α	315	450	M10	370	11	400	43,0
CCF 10G	450	650	200	356	548	145	141	В	360	500	M10	420	11	450	49,0
CCF 10AG	450	650	250	356	548	195	191	В	360	500	M10	420	11	450	55,0
CCF 10BG	450	650	300	356	548	245	241	В	360	500	M10	420	11	450	61,5
CCF 11G	500	700	250	386	586	194	183	В	395	520	M10	465	13	500	68,0
CCF 11AG	500	700	300	386	586	244	233	В	395	520	M10	465	13	500	76,0
CCF 11BG	500	700	350	386	586	294	283	В	395	520	M10	465	13	500	84,0
CCF 12G	550	750	250	436	636	190	180	В	445	570	M12	515	13	550	82,0
CCF 12AG	550	750	300	436	636	240	230	В	445	570	M12	515	13	550	90,0
CCF 12BG	550	750	350	436	636	290	280	В	445	570	M12	515	13	550	98,0
CCF 13G	200	600	140	120	520	105	100	Α	135	470	M6	180	9	205	15,5
CCF 14G	200	750	175	140	670	130	125	Α	150	610	M8	200	9	225	24,0
CCF 16G	670	920	330	550	800	245	240	Α	560	650	M16	660	16	700	134,0
CCF 16AG	670	920	390	550	800	305	300	Α	560	650	M16	660	16	700	145,0
CCF 16BG	670	920	450	550	800	365	360	Α	560	650	M16	660	16	700	162,0
CCF 20BG	450	450	470	356	356	405	398	Α	360	300	M10	420	11	450	51,0



MANUAL MOTOR STARTER / PROTECTOR

Zones 1, 2, 21, 22

Ex d ENCLOSURES

ZONES 1, 2 (gas) & 21, 22 (dust)



ATEX certified manual starter and overcurrent protectors specially designed for the protection of electric motors in hazardous areas.

They provide protection against motor overloads and short circuits.

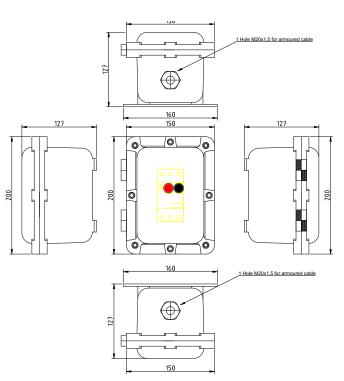


							ITEM	1 REFE	RENCE	S		
			A	C-3 Cat	egory -	50/60 H	lz				Magnetic tripping current ld ± 20 %	Item No.:
Designation:	4	00/415	v		500 V			690 V		Setting range of thermal trips:		
Designation:	Р	lcu	lcs	Р	lcu	lcs	Р	lcu	lcs	thermat trips:		
	kW	kA	%	kW	kA	%	kW	kA	%	А	А	
GM CCF1G 0.25	0.25						0.55	3	75	0.631	13	4D0105
GM CCF1G 1.1	1.1			1.5			2.2	3	75	2.54	51	4D0108
GM CCF1G 2.2	2.2			3	50	100	4	3	75	46.3	78	4D0110
GM CCF1G 5.5	5.5	15	50	7.5	6	75	9	3	75	914	170	4D0116
GM CCF1G 7.5	7.5	15	50	9	6	75	15	3	75	1318	223	4D0120
GM CCF1G 15	15	10	50	18.5	4	75	22	3	75	2432	416	4D0132

TECHNICAL SPECIFICATIONS					
Marking:	€ II 2G Ex d IIB+H2 T6 Gb € II 2D Ex tb IIIC T85°C Db IP66				
Certificate:	EU-Type Examination Certificate				
Material:	Aluminium, grey RAL 7000				
External dimensions:	200x150x127 mm				
Internal dimensions:	143x93x96 mm				
Pushbuttons:	2 Pushbuttons Red/Black 3/8" (DP 38)				
Operating temperature:	-20°C to +40°C				
Ingress protection:	IP66				
Cable entries:	Top: 1xM20x1,5 Bottom: 1xM20x1,5				







LOAD BREAK SWITCH 3P / 32A

Zones 1, 2, 21, 22

Ex d ENCLOSURES

ZONES 1, 2 (gas) & 21, 22 (dust)



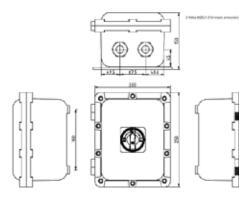
32A, 3-pole ATEX certified load break switch for use in explosive atmospheres. Suitable for classified zones 1, 2, 21 and 22.

Equipped with a lockable external handle, it allows to disconnect low voltage load lines or to control electrical machines under load, both in indoor and outdoor installations, near the sea, offshore plants and other aggressive environments.

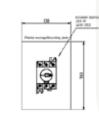


ITEM REFERENCES	
Designation:	Item No.:
LOAD BREAK SWITCH 3P / 32A	4D0204

TECHNICAL SPECIFICATIONS					
Marking:	€ II 2G Ex db IIB+H2 T6 Gb € II 2D Ex tb IIIC T85°C Db IP66				
Certificate:	EU-Type Examination Certificate				
Material:	Light aluminum alloy, stainless steel hinges				
Operating temperature:	-20°C to +40°C				
Ingress protection:	IP66				
Dimensions:	External: 200x250x150 mm Internal: 140x190x118 mm				
Colour:	Grey RAL 7000				
Interior:	Mounting Plate 130x180mm 3P 32A Main Circuit Breaker				
Lockable handle:	72x72 mm yellow/red ø M12 DPM M127S-L + I 332SR				
Cable entries:	2x M25X1,5 (cable glands not included)				







RATED VOLTAGE	BREAKING CAPACITY	RATED CURRENT I _e (A)
415 VAC	AC-23A AC-23B	32 A
500 VAC	AC-23A AC-23B	25 A
690 VAC	AC-23A AC-23B	25 A

LOAD BREAK SWITCH 3P / 40A

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

Ex d ENCLOSURES

ZONES 1, 2 (gas) & 21, 22 (dust)

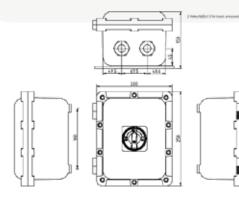
40A, 3-pole ATEX certified load break switch for use in explosive atmospheres. Suitable for classified zones 1, 2, 21 and 22.

Equipped with a lockable external handle, it allows to disconnect low voltage load lines or to control electrical machines under load, both in indoor and outdoor installations, near the sea, offshore plants and other aggressive environments.

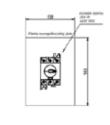


ITEM REFERENCES	
Designation:	Item No.:
LOAD BREAK SWITCH 3P / 40A	4D0206

	TECHNICAL SPECIFICATIONS				
Marking:	EX II 2G Ex db IIB+H2 T6 Gb				
Certificate:	EU-Type Examination Certificate				
Material:	Light aluminum alloy, stainless steel hinges				
Operating temperature:	-20°C to +40°C				
Ingress protection:	IP66				
Dimensions:	External: 200x250x150 mm Internal: 140x190x118 mm				
Colour:	Grey RAL 7000				
Interior:	Mounting Plate 130x180mm 3P 40A Main Circuit Breaker				
Lockable handle:	72x72 mm yellow/red ø M12 DPM M127S-L + I 332SR				
Cable entries:	2x M25X1,5 (cable glands not included)				







RATED VOLTAGE	BREAKING CAPACITY	RATED CURRENT I _e (A)
415 VAC	AC-23A AC-23B	40 A
500 VAC	AC-23A AC-23B	25 A
690 VAC	AC-23A AC-23B	25 A

LOAD BREAK SWITCH 3P / 80A

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

Ex d ENCLOSURES

ZONES 1, 2 (gas) & 21, 22 (dust)



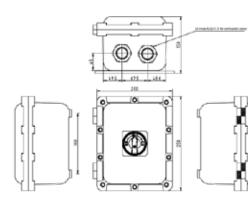
80A, 3-pole ATEX certified load break switch for use in explosive atmospheres. Suitable for classified zones 1, 2, 21 and 22.

Equipped with a lockable external handle, it allows to disconnect low voltage load lines or to control electrical machines under load, both in indoor and outdoor installations, near the sea, offshore plants and other aggressive environments.

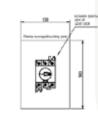


ITEM REFERENCES	
Designation:	Item No.:
LOAD BREAK SWITCH 3P / 80A	4D0205

TECHNICAL SPECIFICATIONS			
Marking:	arking: II 2G Ex db IIB+H2 T6 Gb II 2D Ex tb IIIC T85°C Db IP66		
Certificate:	EU-Type Examination Certificate		
Material:	Light aluminum alloy, stainless steel hinges		
Operating temperature:	-20°C to +40°C		
Ingress protection:	IP66		
Dimensions:	s: External: 200x250x150 mm Internal: 140x190x118 mm		
Colour: Grey RAL 7000			
Interior:	Interior: Mounting Plate 130x180mm 3P 80A Main Circuit Breaker		
Lockable handle:	72x72 mm yellow/red ø M12 DPM M127S-L + I 332SR		
Cable entries:	2x M32X1,5 (cable glands not included)		







RATED VOLTAGE	BREAKING CAPACITY	RATED CURRENT I _e (A)
415 VAC	AC-23A AC-23B	80 A
500 VAC	AC-23A AC-23B	63 A
690 VAC	AC-23A AC-23B	40 A

EX D MAGNETO-THERMAL CIRCUIT BREAKER

6

Zones 1, 2, 21, 22

Ex d ENCLOSURES

-772-17-246B ·

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ZONES 1, 2 (gas) & 21, 22 (dust)

Circuit-breakers housed in an explosion-proof enclosure.

The enclosure has a non-lockable external handle to operate the conventional circuit-breaker in explosive atmospheres.

Standard cable entries: 2 M20x1.5 threaded holes. Other options are available on request.

Optionally, the enclosure can be identified with a stainless steel plate riveted with black lettering. The text must be specified in advance.



ITEM REFERENCES			
	Designation:	Rated current (A):	Item No.:
	MINIATURE CIRCUIT-BREAK	ER 2P - C CURVE / iC60N - 2P 50 kA (0,5 to 4 A) / 10 k	:A (6 to 63 A)
	SCH-A9F74202	2	4D0304A
* *	SCH-A9F74204	4	4D0306A
55	SCH-A9F74210	10	4D0308A
	SCH-A9F74220	20	4D0310A
MINIATURE CIRCUIT-BREAKER 3P - C CURVE / iC60N - 3P 50 kA (0,5 to 4 A) / 10 kA (6 to 63 A)			
1 3 5	SCH-A9F74302	2	4D0304B
* * *	SCH-A9F74304	4	4D0307B
K-+-+	SCH-A9F74306	6	4D0308B
255	SCH-A9F74310	10	4D0310B
ררר	SCH-A9F74316	16	4D0312B
2 4 6	SCH-A9F74325	25	4D0314B
	MINIATURE CIRCUIT-BREAK	ER 4P - C CURVE / iC60N - 4P 50 kA (0,5 to 4 A) / 10 k	A (6 to 63 A)
1 3 5 7	SCH-A9F74404	4	4D0306C
* * * *	SCH-A9F74410	10	4D0308C
7777	SCH-A9F74420	20	4D0310C
2225	SCH-A9F74425	25	4D0311C
2 4 6 8	SCH-A9F74432	32	4D0312C

TECHNICAL SPECIFICATIONS

Marking:	€ II 2G Ex db IIB+H2 T6 Gb € II 2D Ex tb IIIC T85°C Db IP66	
Certificate:	EU-Type Examination Certificate	
Material:	Light aluminum alloy, stainless steel hinges	
Operating temperature:	-20°C to +40°C	
Ingress protection:	IP66	
Dimensions:	External: 200x250x150 mm Internal: 140x190x118 mm	
Colour:	Grey RAL 7000	
Interior:	Mounting Plate 130x180mm	
Handle:	Black plastic rotary knob - NOT LOCKABLE TYPE	
Cable entries:	2x M20X1,5 (cable glands not included)	

EX D ENCLOSURE FOR ELEC. PROTECTIONS - 1 HEADER + 4 CIRCUITS

Zones 1, 2, 21, 22

Ex d ENCLOSURES



ZONES 1, 2 (gas) & 21, 22 (dust)

CCF7AG series Ex d enclosure designed to house different types of electrical protections in explosive atmospheres, suitable for use in zones 1, 2, 21 and 22. Each block is operated by means of a robust and reliable non-lockable handle.

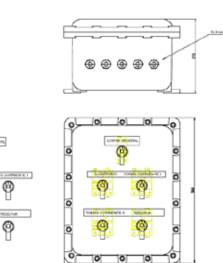
In this particular case we present a head-end and four services consisting of: 1x 2x32A Miniature Circuit Breaker (SCH iC60L A9F94232) -> As a head-end. 4x Blocks (Residual Current Circuit Breaker + Miniature Circuit Breaker / SCH A9F94216 + A9Q41225) -> As services. Each block is associated with a handle

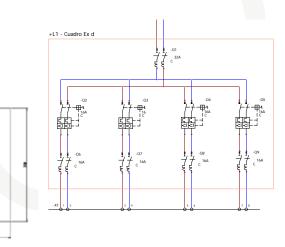
Other protection sizes are possible on request.



ITEM REFERENCES	
Designation:	Item No.:
Ex d control panel - 1 Miniature Circuit Breaker / 4 Residual Current + Miniature Circuit Breaker	4D1001

TECHNICAL SPECIFICATIONS		
Marking:	€ II 2G Ex db IIB+H2 T6 Gb € II 2D Ex tb IIIC T85°C Db IP66	
Certificate:	EU-Type Examination Certificate	
Material:	Aluminium, Grey RAL 7000	
Operating temperature:	-20°C to +40°C	
Ingress protection:	IP66	
Dimensions:	External: 400x500x250 mm Internal: 305x405x202 mm	
Interior:	Mounting Plate 290x390mm	
Content:	1x 2x32A Miniature Circuit Breaker (SCH iC60L A9F94232) -> As a head-end. Content: 4x Blocks (Residual Current Circuit Breaker + Miniature Circuit Breaker / SCH A9F94216 + A9Q41225) -> As services. Each block is associated with a handle	
Cable entries:	5x M20X1,5 (cable glands/plugs not included)	





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BOXES FOR EQUIPMENT 8 INSTRUMENTATION

BOXES FOR EQUIPMENT AND INSTRUMENTATION SO SERIES

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

<image>Ex d ENCLOSURESZONES 1, 2 (gas) & 21, 22 (dust)ONES 1, 2 (gas) & 21, 22 (dust)Image: Solar Sol

TECHNICAL DATA			
Marking:	II 2G Ex d IIC T6-T4 Gb II 2D Ex tb IIIC T85°C Db	NOTE: The temperature class and the maximum surface temperature may vary depending on the ambient temperature and the power dissipation of the equipment contained in the box.	
Certificate:	EU-Type Examination Certificate	EU-Type Examination Certificate	
Housing:	Aluminium light alloy (<mark>Alumi</mark> nox on requ	Aluminium light alloy (Aluminox on request)	
Operating temperature:	-20°C to +40°C (-50°C to +85°C on request	-20°C to +40°C (-50°C to +85°C on request)	
Ingress protection:	IP66/67	IP66/67	
Max. voltage:	660 VAC / 440 VDC		
NOTE: All the electrical equpment shall conform to their respective IEC/CENELEC standards.			

TYPES OF EQUIPMENT / INSTRUMENTATION

Alarm & alerting module	Amperometric relay (electronic)
Ambient thermostat	Programmable switch (hourly, daily, weekly)
Amperometer (analog / digital)	Programmer (electronic digital)
Anti-surge device (single-phase)	Programmer (analog, with up to 10 LED's)
Anti-surge device (three-phase)	Programmer (electronic with transponder)
Control relay	Pulse counter (electric)
Cosfimeter 0,1 - 1 or cosfimeter 0,2 - 1 (electrodynamic)	Pulse counter (electronic, with built-in relay)
Current relay	Stepping relay
Cycles programmer	Strain gauge signal converter series ICA
Digital clock (electronic)	Temperature controller (electronic, Digital, adjustable up to 1600°C)
Electromechanical timer (electronic, analog / digital)	Temperature transmitter (2-wires series T)
Electronic control & measurement board	Time ralay (electronic)
Frequency meter 5 to 500 Hz and 36 to 60 Hz	Transmitter (2-wire series PR)
Fuse-holder (for fuses 8,5x31,5 or 10,3x38 mm)	Twilight swith
Hour counter (electric)	Voltage relay
Isolation controller	Voltmeter (electromagnetic or with permanent magnet up to 600 V)
LCD indicator Mod. E4 (self powered)	Wattmeter up to 999 kW or electrodinamic up to 300 kW
Light barrier (with built-in relay)	Thermometer (electronic digital up to 1000%)
Light intensity switch	Thermometer (electronic, digital up to 1600°C)

BOXES FOR EQUIPMENT AND INSTRUMENTATION CPS SERIES

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

Ex d ENCLOSURES

ZONES 1, 2 (gas) & 21, 22 (dust)



Explosion proof enclosures specifically designed to house electrical equipment and instrumentation.

Aluminium body and tempered glass window.

Possibility of manufacture in Aluminox, with higher hardness and anti-corrosion properties than stainless steel.



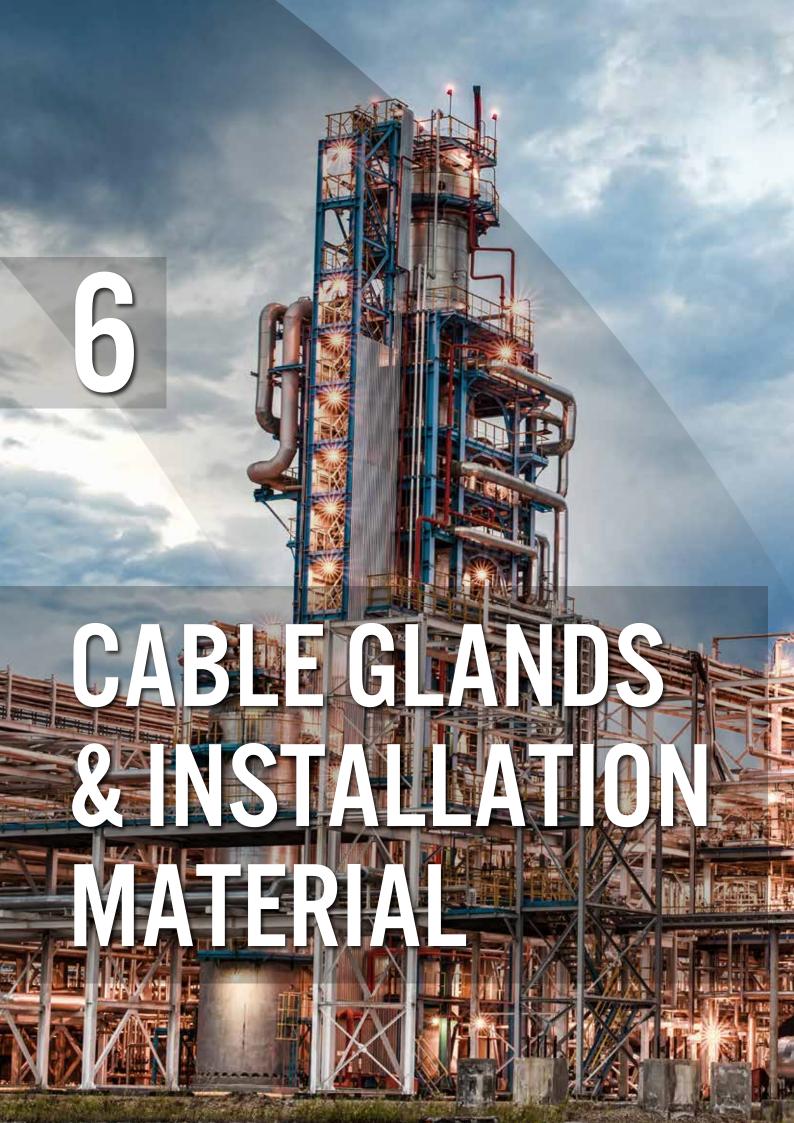


	TECHNICAL DATA	
Marking:	II 2G Ex d IIC T6-T4 Gb II 2D Ex tb IIIC T85℃-T135℃ Db	NOTE: The temperature class and the maximum surface temperature may vary depending on the ambient temperature and the power dissipation of the equipment contained in the box.
Certificate:	EU-Type Examination Certificate	
Housing:	Aluminium light alloy (Aluminox on request)	
Operating temperature:	-20°C to +40°C (-50°C to +80.°C on request)	
Ingress protection:	IP66/67	
Max. voltage:	1000 V AC/DC (as long as it does not contain Ex ia equipment)	
Current:	12 A - 240 A	
NOTE: All the electrical equpment shall conform to their respective IEC/CENELEC standards.		

TYPES OF EQUIPMENT / INSTRUMENTATION

	T INSTRUMENTATION
Alarm & alerting module	Amperometric relay (electronic)
Ambient thermostat	Programmable switch (hourly, daily, weekly)
Amperometer (analog / digital)	Programmer (electronic digital)
Anti-surge device (single-phase)	Programmer (analog, with up to 10 LED's)
Anti-surge device (three-phase)	Programmer (electronic with transponder)
Control relay	Pulse counter (electric)
Cosfimeter 0,1 - 1 or cosfimeter 0,2 - 1 (electrodynamic)	Pulse counter (electronic, with built-in relay)
Current relay	Stepping relay
Cycles programmer	Strain gauge signal converter series ICA
Digital clock (electronic)	Temperature controller (electronic, Digital, adjustable up to 1600°C)
Electromechanical timer (electronic, analog / digital)	Temperature transmitter (2-wires series T)
Electronic control & measurement board	Time ralay (electronic)
Frequency meter 5 to 500 Hz and 36 to 60 Hz	Transmitter (2-wire series PR)
Fuse-holder (for fuses 8,5x31,5 or 10,3x38 mm)	Twilight swith
Hour counter (electric)	Voltage relay
Isolation controller	Voltmeter (electromagnetic or with permanent magnet up to 600 V)
LCD indicator Mod. E4 (self powered)	Wattmeter up to 999 kW or electrodinamic up to 300 kW
Light barrier (with built-in relay)	Thermometer (electronic digital up to 160000)
Light intensity switch	Thermometer (electronic, digital up to 1600°C)





6 - CABLE GLANDS & INSTALLATION MATERIAL



Range of ATEX certified cable glands for maximum safety in hazardous areas of industrial sites. They guarantee a completely sealed connection avoiding dust, humidity and dirt in explosive atmospheres.

- Increased safety (e) and intrinsic safety (i) plastic cable glands for unarmoured cable installations.
- Brass, nickel-plated brass and stainless steel cable glands for armoured cable installations.
- ATEX-certified cable glands for use with Ex-d flameproof enclosures.

Plastic and metal stopping plugs for protection of additional cable entries in junction boxes and explosionproof enclosures.

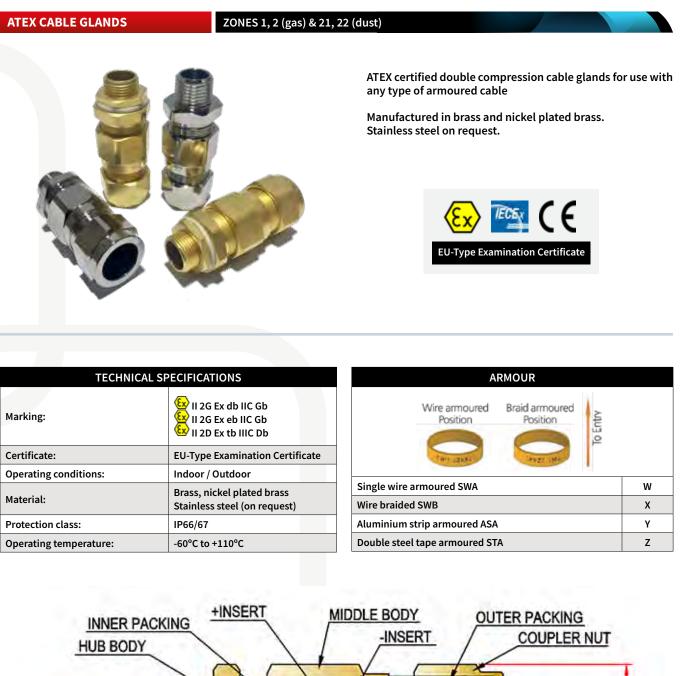
Metal adapters and reducers that provide a fitting solution between the cable inlet and the equipment when they have different threads.

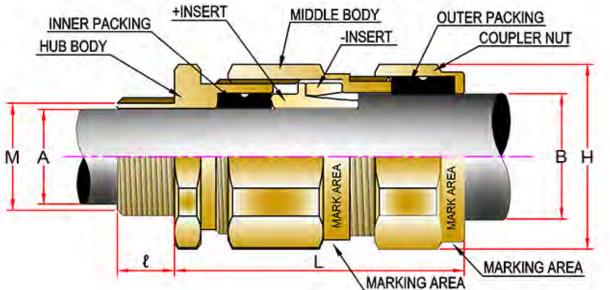
6.1 - CABLE GLANDS FOR ARMOURED CABLE	310
6.2 - CABLE GLANDS FOR NON-ARMOURED CABLE	316
6.3 - INSTALLATION MATERIAL	322



OS-E1UF CABLE GLAND - WIRE ARMOURED CABLE

Zones 1, 2, 21, 22





Zones 1, 2, 21, 22

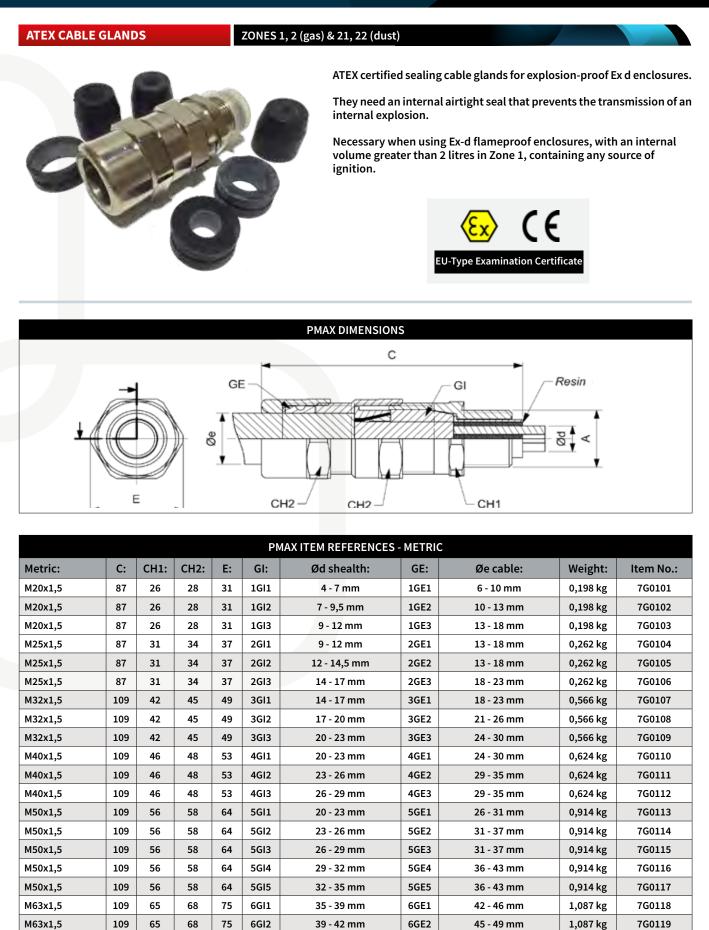
	ITEM REFERENCES (METRIC)												
Madrida	Inner A:		Outer B:		Thread	Armour size		Hexagon	Weight	Length	ltare Na .		
Metric:	Mín.:	Máx.:	Mín.:	Máx.:	Length (l):	Wire:	Braid:	Dimensions (H):	(g):	(L):	Item No.:		
M16x1,5	5	11,5	9	15,5	15	0,9~1,25	0,05 ~ 0,8	H25 x P27	137	56	7B0701		
M20x1,5	5	11,5	9	15,5	15	0,9~1,25	0,05 ~ 0,8	H25 x P27	137	56	7B0702		
M20x1,5	7,5	15,2	13,2	20,5	15	0,9~1,25	0,05 ~ 0,8	H31 x P34	212	63	7B0703B		
M25x1,5	7,5	15,2	13,2	20,5	15	0,9~1,25	0,05 ~ 0,8	H31 x P34	212	63	7B0704B		
M25x1,5	13	19,6	17	26	15	1,25~1,6	0,05 ~ 0,8	H37 x P40	325	68	7B0705		
M32x1,5	16,5	26,2	24	33,5	15	1,6~2,0	0,05 ~ 1,2	H47 x P50	570	75	7B0706		
M40x1,5	23	32,3	30	41,5	15	1,6~2,0	0,05 ~ 1,2	H56 x P60	876	83	7B0707		
M50x1,5	29	41,5	38	50	15	1,8~2,5	0,05 ~ 1,2	H70 x P75	1445	89	7B0708		
M63x1,5	39	50	45	60	15	1,8~2,5	0,05 ~ 1,2	H77 x P82	1740	98	7B0709		
M63x1,5	46	55	55	66	15	1,8~2,5	0,05 ~ 1,2	H82 x P88	1907	98	7B0710		
M75x1,5	52	61	58	72	20	1,8~2,5	0,05 ~ 1,2	H92 x P100	3270	109	7B0711		
M75x1,5	59	67	66,1	79	20	1,8~2,5	0,05 ~ 1,2	H98 x P106	2912	109	7B0712		
M90x2	66	80	72	90	25	1,8~3,0	0,05 ~ 1,6	H110 x P120	4600	111	7B0713		
M100x2	76	90,5	84	101,5	25	1,8~3,0	0,05 ~ 1,6	H125 x P135	5500	123	7B0714		
M115x2	88	102	100	116	25	1,8~3,0	0,05 ~ 1,6	H135 x P143	5500	123	7B0715		

					ITEM	REFERENCES	5 (NPT)				
NPT:	Inne	er A:	Outer B:		Thread	Armo	ur size	Hexagon	Weight	Length	Item No.:
MP1:	Mín.:	Máx.:	Mín.:	Máx.:	Length (l):	Wire:	Braid:	Dimensions (H):	(g):	(L):	item No.:
1/2"	5	11,5	9	15,5	15	0,9~1,25	0,05 ~ 0,8	H25 x P27	137	56	7B0801
1/2"	7,5	15,2	13,2	20,5	15	0,9~1,25	0,05 ~ 0,8	H31 x P34	212	63	7B0802B
3/4"	7,5	15,2	13,2	20,5	16	0,9~1,25	0,05 ~ 0,8	H31 x P34	212	63	7B0803B
3/4"	13	19,6	17	26	16	1,25~1,6	0,05 ~ 0,8	H37 x P40	325	68	7B0804
1"	13	19,6	17	26	18	1,25~1,6	0,05 ~ 0,8	H37 x P40	325	68	7B0805
1"	16,5	26,2	24	33,5	18	1,6~2,0	0,05 ~ 1,2	H47 x P50	570	75	7B0806
1-1/4"	16,5	26,2	24	33,5	19	1,6~2,0	0,05 ~ 1,2	H47x P50	570	75	7B0807
1-1/4"	23	32,3	30	41,5	19	1,6~2,0	0,05 ~ 1,2	H56 x P60	876	83	7B0808
1-1/2"	23	32,3	30	41,5	21	1,6~2,0	0,05 ~ 1,2	H56 x P60	876	83	7B0809
1-1/2"	29	41,5	38	50	21	1,8~2,5	0,05 ~ 1,2	H70 x P75	1445	89	7B0810
2"	29	41,5	38	50	24	1,8~2,5	0,05 ~ 1,2	H70 x P75	1445	89	7B0811
2"	39	50	45	60	24	1,8~2,5	0,05 ~ 1,2	H77 x P82	1740	98	7B0812
2-1/2"	46	55	55	66	27	1,8~2,5	0,05 ~ 1,2	H82 x P88	1907	98	7B0814
2-1/2"	52	61	58	72	27	1,8~2,5	0,05 ~ 1,2	H92 x P100	3270	109	7B0815
3"	59	67	66,1	79	30	1,8~2,5	0,05 ~ 1,2	H98 x P106	2912	109	7B0817
3"	66	80	72	90	30	1,8~3,0	0,05 ~ 1,6	H110 x P120	4600	111	7B0818
3-1/2"	66	80	72	90	32	1,8~3,0	0,05 ~ 1,6	H110 x P120	4600	111	7B0819
3-1/2"	76	90,5	84	101,5	32	1,8~3,0	0,05 ~ 1,6	H125 x P135	5500	123	7B0820
4"	76	95,5	84	101,5	32	1,8~3,0	0,05 ~ 1,6	H125 x P135	5500	123	7B0821
4"	88	102	100	116	32	1,8~3,0	0,05 ~ 1,6	H135 x P143	5500	123	7B0822

SEALING CABLE GLANDS FOR ARMOURED CABLES

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com



6GE3

7G0120

1,087 kg

68

75

6GI3

42 - 45 mm

65

109

M63x1,5

SEALING CABLE GLANDS FOR ARMOURED CABLES

Zones 1, 2, 21, 22

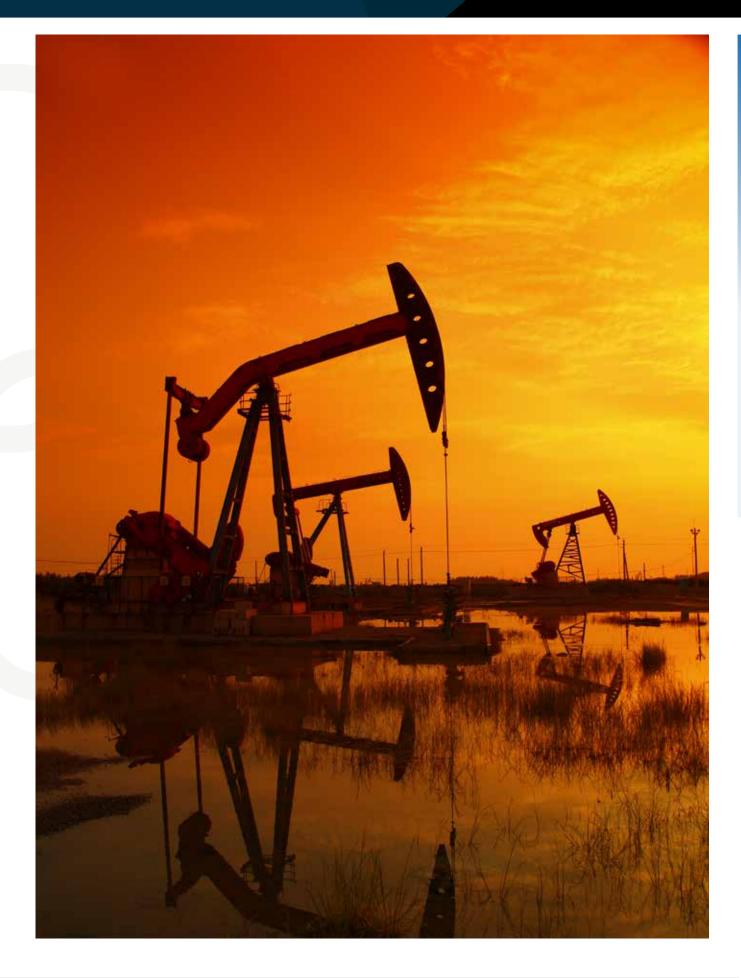
	PMAX ITEM REFERENCES - NPT											
NPT:	C:	CH1:	CH2:	E:	GI:	Ød shealth:	GE:	Øe cable:	Weight:	Item No.:		
1/2" NPT	87	26	28	31	1GI1	4 - 7 mm	1GE1	6 - 10 mm	0,198 kg	7G0201		
1/2" NPT	87	26	28	31	1GI2	7 - 9,5 mm	1GE2	10 - 13 mm	0,198 kg	7G0202		
1/2" NPT	87	26	28	31	1GI3	9 - 12 mm	1GE3	13 - 18 mm	0,198 kg	7G0203		
3/4" NPT	87	31	34	37	2GI1	9 - 12 mm	2GE1	13 - 18 mm	0,262 kg	7G0204		
3/4" NPT	87	31	34	37	2GI2	12 - 14,5 mm	2GE2	13 - 18 mm	0,262 kg	7G0205		
3/4" NPT	87	31	34	37	2GI3	14 - 17 mm	2GE3	18 - 23 mm	0,262 kg	7G0206		
1" NPT	109	42	45	49	3GI1	14 - 17 mm	3GE1	18 - 23 mm	0,566 kg	7G0207		
1" NPT	109	42	45	49	3GI2	17 - 20 mm	3GE2	21 - 26 mm	0,566 kg	7G0208		
1" NPT	109	42	45	49	3GI3	20 - 23 mm	3GE3	24 - 30 mm	0,566 kg	7G0209		
1.1/4" NPT	109	46	48	53	4GI1	20 - 23 mm	4GE1	24 - 30 mm	0,624 kg	7G0210		
1.1/4" NPT	109	46	48	53	4GI2	23 - 26 mm	4GE2	29 - 35 mm	0,624 kg	7G0211		
1.1/4" NPT	109	46	48	53	4GI3	26 - 29 mm	4GE3	29 - 35 mm	0,624 kg	7G0212		
1.1/2" NPT	109	56	58	64	5GI1	20 - 23 mm	5GE1	26 - 31 mm	0,914 kg	7G0213		
1.1/2" NPT	109	56	58	64	5GI2	23 - 26 mm	5GE2	31 - 37 mm	0,914 kg	7G0214		
1.1/2" NPT	109	56	58	64	5GI3	26 - 29 mm	5GE3	31 - 37 mm	0,914 kg	7G0215		
1.1/2" NPT	109	56	58	64	5GI4	29 - 32 mm	5GE4	36 - 43 mm	0,914 kg	7G0216		
1.1/2" NPT	109	56	58	64	5GI5	32 - 35 mm	5GE5	36 - 43 mm	0,914 kg	7G0217		
2" NPT	109	65	68	75	6GI1	35 - 39 mm	6GE1	42 - 46 mm	1,087 kg	7G0218		
2" NPT	109	65	68	75	6GI2	39 - 42 mm	6GE2	45 - 49 mm	1,087 kg	7G0219		
2" NPT	109	65	68	75	6GI3	42 - 45 mm	6GE3	48 - 52 mm	1,087 kg	7G0220		

TECHNICAL SPECIFICATIONS								
Marking:	II 2G Ex d IIC / Ex e II II 2D Ex tD A21							
Certificate:	EU-Type Examination Certificate							
Operating conditions:	Indoor / Outdoor							
Material:	Nickel plated brass							
Ingress protection:	IP66							
Operating temperature:	-40°C to +100°C							

ACCESSORIES	
Designation:	Item No.:
Bicomponent resin REPM-1 50 ml	7G0501
Manual applicator for 50 ml cartridges	7G0502









EX E PLASTIC CABLE GLAND - NON-ARMOURED CABLE

Zones 1, 2, 21, 22

ATEX CABLE GLANDS ZONES 1, 2 (gas) & 21, 22 (dust) Image: Constraint of the state of the state

		Metric:	i ype:			Length L:	Length IL:	width Sw:	Item No.:
				Min:	Max:		-		
	e	M12x1,5	НІВМ	3	6,5	10	29-34	15	7A0201
	Ø	M16x1,5	нівм	4	10	10	31-37	19	7A0202
	Sw	M20x1,5	ESKE/1	7	13	10	36-45	24	7A0102
		M25x1,5	ESKE/1	10	17	10	38-47	29	7A0103
i		M32x1,5	ESKE/1	13	21	12	42-51	36	7A0104
		M40x1,5	ESKE/1	17	28	12	52-65	46	7A0105
	D	M50x1,5	ESKE/1	23	35	14	59-72	55	7A0106
		M63x1,5	ESKE/1	34	48	15	64-78	68	7A0107
	i	M12x1,5	нівм	3	6,5	10	29-34	15	7A0301
	đ	M16x1,5	нівм	4	10	10	31-37	19	7A0302
	sw	M20x1,5	ESKE/1	7	13	10	36-45	24	7A0109
		M25x1,5	ESKE/1	10	17	10	38-47	29	7A0110
i		M32x1,5	ESKE/1	13	21	12	42-51	36	7A0111
	·;	M40x1,5	ESKE/1	17	28	12	52-65	46	7A0112
	D	M50x1,5	ESKE/1	23	35	14	59-72	55	7A0113
	la de la	M63x1,5	ESKE/1	34	48	15	64-78	68	7A0114
		M50x1,5	ESKE/1	23	35	14	59-72	55	7A0113

TECHNICAL SPEC	IFICATIONS TYPE HIBM	TECHNICAL SPECIFICATIONS TYPE ESKE/1			
Marking:	II 2G Ex e IIC Gb	Marking:	II 2G Ex eb IIC Gb		
Certificate:	EU-Type Examination Certificate	Certificate:	EU-Type Examination Certificate		
Operating conditions:	Indoor / Outdoor	Operating conditions:	Indoor / Outdoor		
Material:	Polyamide	Material:	Gland Polyamide, Gasket EPDM		
Protection class:	IP66 / IP68	Protection class:	IP66 / IP68 (5 bar 30 min)		
Operating temperature:	-40°C to +70°C	Operating temperature:	-40°C to +75°C		

OS-A2F-U CABLE GLAND - NON-ARMOURED CABLE

Zones 1, 2, 21, 22

ATEX CABLE GLANDS

ZONES 1, 2 (gas) & 21, 22 (dust)



Flameproof & Increased Safety cable glands for use with non armoured cable.

Single compression.

Manufactured in brass and nickel plated brass. Stainless steel on request.



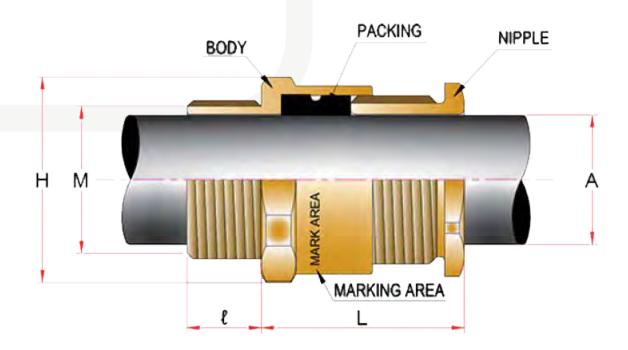
	TECHNICAL SPECIFICATIONS
Marking:	II 2G Ex db IIC Gb II 2G Ex eb IIC Gb II 2D Ex tb IIIC Db
Certificate:	EU-Type Examination Certificate
Operating conditions:	Indoor / Outdoor
Materials:	Brass, nickel plated brass and stainless steel (on request)
Ingress protection:	IP66/67
Operating temperature:	-60°C to +110°C

	ITEM REFERENCES (METRIC)											
Metric:	Cable di	ameter:	Thread	Hexagon	W(c; = h + (=);	Longth (L).	Item No.:					
Metric:	Min.:	Max.:	Length (l):	Dimensions (H):	Weight (g):	Length (L):	item No.:					
M12x1,5	3	7	15	H24 x P26	72	29	7B0900					
M16x1,5	3	7	15	H24 x P26	72	29	7B0901					
M16x1,5	5	10,3	15	H24 x P26	72	29	7B0902					
M20x1,5	3	7	15	H24 x P26	72	29	7B0903					
M20x1,5	5	10,3	15	H24 x P26	72	29	7B0904					
M20x1,5	9	15,3	15	H27 x P29	79	33	7B0905					
M25x1,5	13	20	15	H32 x P34	108	33	7B0906					
M32x1,5	17	26,5	15	H39 x P41,5	168	36	7B0907					
M40x1,5	22	32	15	H48 x P51	272	38	7B0908					
M50x1,5	30	42	15	H58 x P62	371	41	7B0909					
M63x1,5	39	51	15	H73 x P78	720	44	7B0910					
M63x1,5	46	55	15	H73 x P78	600	44	7B0911					
M75x1,5	54	61	20	H85 x P90	950	48	7B0912					
M75x1,5	58	68	20	H94 x P99	1070	49	7B0913					
M90x2	66	78	25	H103 x P109	1480	53	7B0914					
M100x2	77	89	25	H112 x P120	2250	54	7B0915					
M115x2	88	101	25	H125 x P135	2400	54	7B0916					

OS-A2F-U CABLE GLAND - NON-ARMOURED CABLE

Zones 1, 2, 21, 22

ITEM REFERENCES (NPT)											
NPT:	Cable diameter:		Thread	Hexagon	Weight (g):	Length (L):	Item No.:				
	Min.:	Max.:	Length (l):	Dimensions (H):							
1/2"	3	7	15	H24 x P26	72	29	7B1001				
1/2"	5	10,3	15	H24 x P26	72	29	7B1002				
1/2"	9	15,3	15	H27 x P29	79	33	7B1003				
3/4"	9	15,3	16	H27 x P29	79	33	7B1004				
3/4"	13	20	16	H32 x P34	108	33	7B1005				
1"	13	20	18	H32 x P34	108	33	7B1006				
1"	17	26,5	18	H39 x P41,5	168	36	7B1007				
1-1/4"	17	26,5	19	H39 x P41,5	168	36	7B1008				
1-1/4"	22	32	19	H48 x P51	272	38	7B1009				
1-1/2"	22	32	21	H48 x P51	272	38	7B1010				
1-1/2"	30	42	21	H58 x P62	371	41	7B1011				
2"	30	42	24	H58 x P62	371	41	7B1012				
2"	39	51	24	H73 x P78	720	44	7B1013				
2-1/2"	39	51	27	H73 x P78	720	44	7B1014				
2-1/2"	46	55	27	H73 x P78	600	44	7B1015				
2-1/2"	54	61	27	H85 x P90	950	48	7B1016				
3"	54	61	30	H85 x P90	950	48	7B1017				
3"	58	68	30	H94 x P99	1070	49	7B1018				
3"	66	78	30	H103 x P109	1480	53	7B1019				
3-1/2"	66	78	32	H103 x P109	1480	53	7B1020				
3-1/2"	77	89	32	H112 x P120	2250	54	7B1021				
4"	77	89	32	H112 x P120	2250	54	7B1022				
4"	88	101	32	H125 x P135	2400	54	7B1023				



SEALING CABLE GLANDS FOR NON-ARMOURED CABLES

ZONES 1, 2 (gas) & 21, 22 (dust)

Zones 1, 2, 21, 22

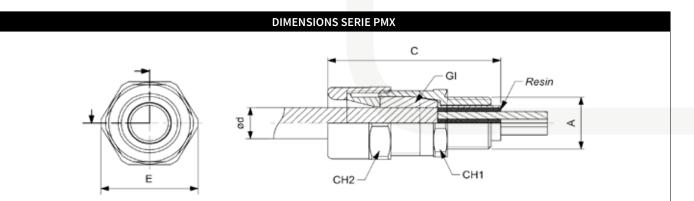
ATEX CABLE GLANDS

ATEX certified sealing cable glands for explosion-proof Ex d enclosures.

They need an internal airtight seal that prevents the transmission of an internal explosion.

Necessary when using Ex-d flameproof enclosures, with an internal volume greater than 2 litres in Zone 1, containing any source of ignition.





			PMX ITE	M REFEREN	CES - METRI	С		
Metric:	C:	CH1:	CH2:	E:	GI:	Ød shealth:	Weight:	Item No.:
M20x1,5	63	26	28	31	1GI1	4 - 7 mm	0,142 kg	7G0301
M20x1,5	63	26	28	31	1GI2	7 - 9,5 mm	0,142 kg	7G0302
M20x1,5	63	26	28	31	1GI3	9 - 12 mm	0,142 kg	7G0303
M25x1,5	63	31	34	37	2GI1	9 - 12 mm	0,183 kg	7G0304
M25x1,5	63	31	34	37	2GI2	12 - 14,5 mm	0,183 kg	7G0305
M25x1,5	63	31	34	37	2GI3	14 - 17 mm	0,183 kg	7G0306
M32x1,5	78	42	45	49	3GI1	14 - 17 mm	0,405 kg	7G0307
M32x1,5	78	42	45	49	3GI2	17 - 20 mm	0,405 kg	7G0308
M32x1,5	78	42	45	49	3GI3	20 - 23 mm	0,405 kg	7G0309
M40x1,5	78	46	48	53	4GI1	20 - 23 mm	0,453 kg	7G0310
M40x1,5	78	46	48	53	4GI2	23 - 26 mm	0,453 kg	7G0311
M40x1,5	78	46	48	53	4GI3	26 - 29 mm	0,453 kg	7G0312
M50x1,5	79	56	58	64	5GI1	20 - 23 mm	0,685 kg	7G0313
M50x1,5	79	56	58	64	5GI2	23 - 26 mm	0,685 kg	7G0314
M50x1,5	79	56	58	64	5GI3	26 - 29 mm	0,685 kg	7G0315
M50x1,5	79	56	58	64	5GI4	29 - 32 mm	0,685 kg	7G0316
M50x1,5	79	56	58	64	5GI5	32 - 35 mm	0,685 kg	7G0317
M63x1,5	79	65	68	75	6GI1	35 - 39 mm	0,836 kg	7G0318
M63x1,5	79	65	68	75	6GI2	39 - 42 mm	0,836 kg	7G0319
M63x1,5	79	65	68	75	6GI3	42 - 45 mm	0,836 kg	7G0320

SEALING CABLE GLANDS FOR NON-ARMOURED CABLES

Full catalogue available on our website: www.inpratex.com

CABLE GLANDS & INSTALLATION MATERIAL 😨 👓

PMX ITEM REFERENCES - NPT								
NPT:	C:	CH1:	CH2:	E:	GI:	Ød shealth:	Weight:	Item No.:
1/2" NPT	63	26	28	31	1GI1	4 - 7 mm	0,142 kg	7G0401
1/2" NPT	63	26	28	31	1GI2	7 - 9,5 mm	0,142 kg	7G0402
1/2" NPT	63	26	28	31	1GI3	9 - 12 mm	0,142 kg	7G0403
3/4" NPT	63	31	34	37	2GI1	9 - 12 mm	0,183 kg	7G0404
3/4" NPT	63	31	34	37	2GI2	12 - 14,5 mm	0,183 kg	7G0405
3/4" NPT	63	31	34	37	2GI3	14 - 17 mm	0,183 kg	7G0406
1" NPT	78	42	45	49	3GI1	14 - 17 mm	0,405 kg	7G0407
1" NPT	78	42	45	49	3GI2	17 - 20 mm	0,405 kg	7G0408
1" NPT	78	42	45	49	3GI3	20 - 23 mm	0,405 kg	7G0409
1.1/4" NPT	78	46	48	53	4GI1	20 - 23 mm	0,453 kg	7G0410
1.1/4" NPT	78	46	48	53	4GI2	23 - 26 mm	0,453 kg	7G0411
1.1/4" NPT	78	46	48	53	4GI3	26 - 29 mm	0,453 kg	7G0412
1.1/2" NPT	79	56	58	64	5GI1	20 - 23 mm	0,685 kg	7G0413
1.1/2" NPT	79	56	58	64	5GI2	23 - 26 mm	0,685 kg	7G0414
1.1/2" NPT	79	56	58	64	5GI3	26 - 29 mm	0,685 kg	7G0415
1.1/2" NPT	79	56	58	64	5GI4	29 - 32 mm	0,685 kg	7G0416
1.1/2" NPT	79	56	58	64	5GI5	32 - 35 mm	0,685 kg	7G0417
2" NPT	79	65	68	75	6GI1	35 - 39 mm	0,836 kg	7G0418
2" NPT	79	65	68	75	6GI2	39 - 42 mm	0,836 kg	7G0419
2" NPT	79	65	68	75	6GI3	42 - 45 mm	0,836 kg	7G0420

	TECHNICAL SPECIFICATIONS				
Marking:	II 2G Ex d IIC / Ex e II II 2D Ex tD A21				
Certificate:	EU-Type Examination Certificate				
Operating conditions:	Indoor / Outdoor				
Material:	Nickel plated brass				
Ingress protection:	IP66				
Operating temperature:	-40°C to +100°C				

ACCESSORIES	
Designation:	Item No.:
Bicomponent resin REPM-1 50 ml	7G0501
Manual applicator for 50 ml cartridges	7G0502





OS-A2F-UH CABLE GLAND - HEAT TRACING/FLAT FORM CABLE

Zones 1, 2, 21, 22

ATEX CABLE GLANDS

Full catalogue available on our website: www.inpratex.com



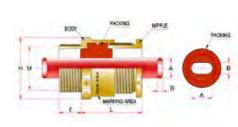
ZONES 1, 2 (gas) & 21, 22 (dust)

OS-A2F-UH is a hazardous area approved cable gland for use with all types of Flat-Form Unarmoured & Braid Armour Cables.

- Increased safety

- Suitable for heat tracing
- / Flat form cable - Single compression





			ITEM REFEREN	CES (METRIC)			
Metric:	Cable dimensions:		Thread	Hexagon		Longth (L)	Item No.:
Metric.	A:	В:	Length (l)-Min.:	Dimensions:	Weight (g):	Length (L):	item No.:
	12	5		H32 x P34	125	48	7B1501A
	13	6,5					7B1501B
M20x1,5	14	6	15				7B1501C
	15	6,5					7B1501D
	12	7,5					7B1501E
	12	5	15	H32 x P34	110	48	7B1502A
	13	6,5					7B1502B
M25x1,5	14	6					7B1502C
MZ3X1,3	15	6,5					7B1502D
	16,5	7					7B1502E
	12	7,5					7B1502F

	ITEM REFERENCES (NPT)						
NPT:	Cable dimensions:		Thread	Hexagon	Weight (g):	Length (L):	Item No.:
NPT.	A:	В:	Length (l)-Min.:	Dimensions:	weight (g).	Length (L).	item No
	12	5			125	48	7B1601A
	13	6,5					7B1601B
1/2"	14	6	15	H32 x P34			7B1601C
	15	6,5					7B1601D
	12 7,5			7B1601E			
	12	5		H32 x P34	110	48	7B1602A
	13	6,5					7B1602B
3/4"	14	6	- 16				7B1602C
3/4	15	6,5					7B1602D
	16,5	7					7B1602E
	12	7,5					7B1602F

	TECHNICAL SPECIFICATIONS				
Marking:	Ex II 2G Ex eb IIC Gb II 2D Ex tb IIIC Db				
Certificate:	EU-Type Examination Certificate				
Operating temperature:	-60°C to +121°C				
Ingress protection:	IP66				
Operating conditions:	Indoor / Outdoor				
Material:	Nickel plated brass				
Gasket (washer):	Nylon				
Packing:	Silicone				

Zones 1, 2, 21, 22

ATEX CABLE GLANDS

ZONES 1, 2 (gas) & 21, 22 (dust)

Nickel plated brass EMC cable glands to provide earth continuity for shielded and screened cables, where required. EMC is used within the automation, telecommunication and measurement and control rechnologies. Another industry that benefits from EMC glands is industrial machinery and industrial engineering.

- Outdoor & Indoor use

- EMC cable gland. (360° contact)
- Increased safety
- Single compression





							(* in mm)
			ITEM REFEREN	CES (METRIC)			
	Cable Diameter:		le Diameter: Thread Hexagon				
Metric:	Min.:	Max.:	Length (l): Dimensions:	Weight (g):	Length (L):	Item No.:	
M20x1,5	9	16	15	H25 x P27	75	32	7B1101
M20x1,5	13	17,5	15	H31 x P33	130	36	7B1102
M25x1,5	9	16	15	H25 x P27	75	32	7B1103
M25x1,5	14	20	15	H31 x P33	130	36	7B1104

ITEM REFERENCES (NPT)							
Cable Diam		ameter:	Thread	Hexagon			
NPT:	Min.:	Max.:	Length (l):	Dimensions:	Weight (g):	Length (L):	Item No.:
1/2"	9	16	15	H25 x P27	75	32	7B1201
1/2"	13	17,5	15	H31 x P33	130	36	7B1202
3/4"	9	16	15	H25 x P27	75	32	7B1203
3/4"	14	20	16	H31 x P33	130	36	7B1204

	TECHNICAL SPECIFICATIONS					
Marking:	II 2G Ex eb IIC Gb II 2D Ex tb IIIC Db					
Certificate:	EU-Type Examination Certificate					
Operating temperature:	-60°C to +130°C					
Ingress protection:	IP66/67					
Operating conditions:	Indoor / Outdoor					
Material:	Nickel plated brass (standard), Brass (Only), Stainless steel (316L)					
Gasket (washer):	Nylon					
Packing:	Silicone					

Zones 1, 2, 21, 22

ATEX INSTALLATION MATERIAL

ZONES 1, 2 (gas) & 21, 22 (dust)

The ATEX/IECEx OSBD breather drains enable pressure compensation between enclosures and surrounding atmosphere, thereby minimizing moisture build-up caused by temperature fluctuation and humid environments. Furthermore, they effectively drain any condensed water present within the device.





ITEM REFERENCES (METRIC)		
Metric:	Hexagon Dimensions:	Item No.:
M20x1,5	H25 x P28	7B1301
M25x1,5	H31 x P34	7B1302

ITEM REFERENCES (NPT)			
NPT:	Hexagon Dimensions:	Item No.:	
1/2"	H25 x P28	7B1401	
3/4"	H31 x P34	7B1402	

	TECHNICAL SPECIFICATIONS
Marking:	😥 II 2G Ex eb IIC Gb 😥 II 2D Ex tb IIIC Db
Certificate:	EU-Type Examination Certificate
Operating temperature:	-60°C to +110°C
Ingress protection:	IP66
Operating conditions:	Indoor / Outdoor
Material:	Nickel plated brass (standard), Brass (Only), Stainless steel (316L)
Gasket (washer):	PTFE (Teflon)
Filter:	Copper compressed metallic sinter

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX INSTALLATION MATERIAL

ZONES 1, 2 (gas) & 21, 22 (dust)



Ex e plastic plugs valid for potentially explosive atmospheres.

The locking screws are used to close unused openings of electrical equipment of the "e" and "t" protection type.

Black colour (RAL 9005)



ITEM REFERENCES							
		Metric:	Length L:	Length TL:	SW1:	SW2:	Item No.:
SW1	_	M12x1,5	15	19	16	6	7C0100
_ <u>SW2_</u>	/	M16x1,5	15	19	20	8	7C0101
1	1	M20x1,5	15	19	24	8	7C0102
		M25x1,5	15	20	29	8	7C0103
		M32x1,5	15	20	36	8	7C0104
		M40x1,5	15	20	46	8	7C0105
D		M50x1,5	15	20	55	8	7C0106
		M63x1,5	15	20	68	8	7C0107

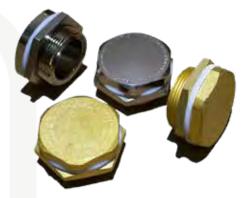
TECHNICAL SPECIFICATIONS		
Marking:	Ex II 2G Ex eb IIC Gb	
Certificate:	EU-Type Examination Certificate	
Operating conditions:	Indoor / Outdoor	
Material:	Polyamide	
Protection class:	IP68	
Operating temperature:	-40°C to +75°C	

OSSP(H) STOPPING PLUGS, METAL

Zones 1, 2, 21, 22

ATEX INSTALLATION MATERIAL

ZONES 1, 2 (gas) & 21, 22 (dust)



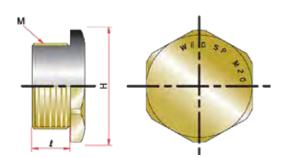
Flameproof & Increased Safety stopping plugs, to block entries for maintenance of the flameproof and increased safety integrity of the equipment



Manufactured in brass and nickel plated brass. Stainless steel on request.

		ITEM REFERENCES		
Metric:	Thread Length [ℓ]:	Hexagon/Round Dimensions (mm):	Weight (g):	Item No.:
M16x1,5	15	24/24	50	7D0101
M20x1,5	15	27/28	75	7D0102
M25x1,5	15	31/32	100	7D0103
M32x1,5	15	38/40	120	7D0104
M40x1,5	15	46/48	195	7D0105
M50x1,5	15	57/58	310	7D0106
M63x1,5	15	70/71	475	7D0107
M75x1,5	15	82/83	730	7D0108
M90x2	20	98/98	950	7D0109
M100x2	20	112/110	1285	7D0110
NPT:	Thread Length [ℓ]:	Hexagon/Round Dimensions (mm):	Weight (g):	Item No.:
1/2"	15	27/28	75	7D0111
3/4"	16	31/32	100	7D0112
1"	18	38/40	120	7D0113
1-1/4"	19	48/50	195	7D0114
1-1/2"	21	57/55	310	7D0115
2"	24	70/70	475	7D0116
2-1/2"	27	82/84	730	7D0117
3"	30	98/97	950	7D0118
3-1/2"	32	112/110	1285	7D0119
4"	32	125/120	1285	7D0120

TECHNICAL SPECIFICATIONS		
Marking:	😥 II 2G Ex d IIC / Ex eb IIC Gb 😥 II 2D Ex tb IIIC Db	
Certificate:	EU-Type Examination Certificate	
Operating conditions:	Indoor / Outdoor	
Material:	Brass, nickel plated brass and stainless steel (on request)	
Gasket (washer):	Nylon	
Ingress protection:	IP66/67	
Operating temperature:	-60°C to +110°C	



Zones 1, 2, 21, 22

ATEX INSTALLATION MATERIAL

ZONES 1, 2 (gas) & 21, 22 (dust)



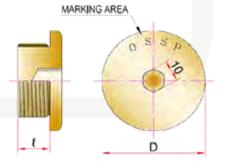
Flameproof & Increased Safety stopping plugs, to block entries for maintenance of the flameproof and increased safety integrity of the equipment



Manufactured in brass and nickel plated brass. Stainless steel on request.

ITEM REFERENCES (SUPPLIED ON REQUEST)				
Metric:	Thread Length[l]:	Hexagon/Round Dimensions (mm):	Weight (g):	Item No.:
M16x1,5	15	24/24	35	7D0201
M20x1,5	15	27/28	55	7D0202
M25x1,5	15	31/32	90	7D0203
M32x1,5	15	38/40	155	7D0204
M40x1,5	15	46/48	250	7D0205
M50x1,5	15	57/58	410	7D0206
M63x1,5	15	70/71	655	7D0207
M75x1,5	15	82/83	890	7D0208
M90x2	20	98/98	1150	7D0209
M100x2	20	112/110	1550	7D0210
NPT:	Thread Length[l]:	Hexagon/Round Dimensions (mm):	Weight (g):	Item No.:
1/2"	15	27/28	55	7D0211
3/4"	16	31/32	90	7D0212
1"	18	38/40	155	7D0213
1-1/4"	19	48/50	250	7D0214
1-1/2"	21	57/55	410	7D0215
2"	24	70/70	655	7D0216
2-1/2"	27	82/84	890	7D0217
3"	30	98/97	1150	7D0218
3-1/2"	32	112/110	1550	7D0219
4"	32	125/120	1550	7D0220

TECHNICAL SPECIFICATIONS			
Marking:	ing: 😧 II 2G Ex d IIC / Ex eb IIC Gb 🚱 II 2D Ex tb IIIC Db		
Certificate:	EU-Type Examination Certificate		
Operating conditions:	Indoor / Outdoor		
Material:	Brass, nickel plated brass and stainless steel (on request)		
Gasket (washer):	Nylon		
Ingress protection:	IP66/67		
Operating temperature:	-60°C to +110°C		



OSSP(T) STOPPING PLUGS, METAL (ON REQUEST)

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX INSTALLATION MATERIAL

ZONES 1, 2 (gas) & 21, 22 (dust)



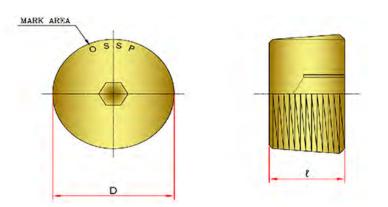
Flameproof & Increased Safety stopping plugs, to block entries for maintenance of the flameproof and increased safety integrity of the equipment



Manufactured in brass and nickel plated brass. Stainless steel on request.

ITEM REFERENCES (SUPPLIED ON REQUEST)				
NPT:	Thread Length[l]:	Round Dimensions (mm):	Weight (g):	Item No.:
1/2"	15	28	30	7D0301
3/4"	16	32	55	7D0302
1"	18	40	100	7D0303
1-1/4"	19	50	160	7D0304
1-1/2"	21	55	265	7D0305
2"	24	70	430	7D0306
2-1/2"	27	84	650	7D0307
3"	30	97	920	7D0308
3-1/2"	32	110	1210	7D0309

TECHNICAL SPECIFICATIONS			
Marking:	II 2G Ex d IIC / Ex eb IIC Gb		
Certificate:	EU-Type Examination Certificate		
Operating conditions:	Indoor / Outdoor		
Material:	Brass, nickel plated brass and stainless steel (on request)		
Gasket (washer):	Nylon		
Ingress protection:	IP66/67		
Operating temperature:	-60°C to +110°C		



OSAJ ADAPTORS Zones 1, 2, 21, 22	
ATEX INSTALLATION MATERIAL	ZONES 1, 2 (gas) & 21, 22 (dust)

Flameproof & Increased Safety adaptors for use in hazardous areas.

Full catalogue available on our website: www.inpratex.com



Part No Example : OSAJ 0809 (OSAJ, NPT 3" x NPT 3-1/2") => Please refer to the below table

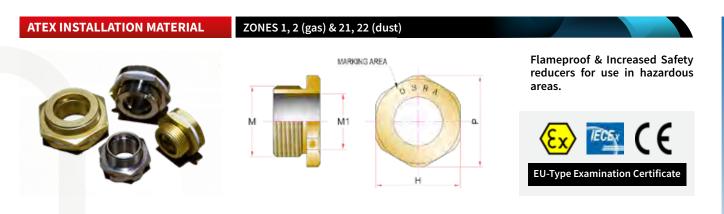
											ITE	MRE	EREN	CES									
				Female thread size (M1)																			
	OS/	۲ ا					ME	TRIC					NPT										
			M16	M20	M25	M32	M40	M50	M63	M75	M90	M100	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"
		M16	00	01	02	03							000	001	002	003							
		M20		11	12	13	14							101	102	103	104						
		M25			22	23	24	25							202	203	204	205					
		M32				33	34	35	36							303	304	305	306				
	METRIC	M40					44	45	46	47							404	405	406	407			
	ME	M50						55	56	57	58							505	506	507	508		
		M63							66	67	68	69							606	607	608	609	
		M75								77	78	79								707	708	709	710
e (M)		M90									88	89									808	809	810
l size		M100										99										909	910
Iread		3/8"	000	001	002	003							0000	0001	0002	0003							110
Male thread size (M)		1/2"		011	012	013	014							0101	0102	0103	0104						
Ма		3/4"			022	023	024	025							0202	0203	0204	0205					
		1"				033	034	035	036							0303	0304	0305	0306				
	н	1-1/4"					044	045	046	047							0404	0405	0406	0407			
	NPT	1-1/2"						055	056	057	058							0505	0506	0507	0508		
		2"							066	067	068	069							0606	0607	0608	0609	
		2-1/2"								077	078	079								0707	0708	0709	0710
		3"									088	089									0808	0809	0810
		3-1/2"										099										0909	0910
		4"																					1010

	TECHNICAL SPECIFICATIONS								
Marking:	II 2G Ex db IIC Gb II 2G Ex eb IIC Gb II 2D Ex tb IIIC Db								
Certificate:	EU-Type Examination Certificate								
Operating conditions:	Indoor / Outdoor								
Material:	Brass, nickel plated brass and stainless steel (on request)								
Gasket (washer):	Nylon								
Ingress protection:	IP66/67								
Operating temperature:	-60° to +110°C								

OSRA REDUCERS

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com



Part No Example : OSRA20 (OSRA, M25 x M16) => Please refer to the below table

											ITE	M REF	EREN	CES									
												Fer	nale th	read s	ize (M1	.)							
	OSRA						ME	TRIC					NPT										
			M16	M20	M25	M32	M40	M50	M63	M75	M90	M100	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"
		M16																					
		M20	10										100										
		M25	20	21									200	201									
		M32	30	31	32								300	301	302								
	METRIC	M40	40	41	42	43							400	401	402	403							
	MET	M50	50	51	52	53	54						500	501	502	503	504						
		M63	60	61	62	63	64	65					600	601	602	603	604	605					
		M75		71	72	73	74	75	76					701	702	703	704	705	706				
Ξ		M90			82	83	84	85	86	87					802	803	804	805	806	807			
Male thread size (M)		M100				93	94	95	96	97	98					903	904	905	906	907	908		
read		3/8"																					
e thi		1/2"	010										0100										
Mal		3/4"	020	021									0200	0201									
		1"	030	031	032								0300	0301	0302								
		1-1/4"	040	041	042	043							0400	0401	0402	0403							
	NPT	1-1/2"	050	051	052	053	054						0500	0501	0502	0503	0504						
		2"	060	061	062	063	064	065					0600	0601	0602	0603	0604	0605					
		2-1/2"		071	072	073	074	075	076					0701	0702	0703	0704	0705	0706				
		3"			082	083	084	085	086	087					0802	0803	0804	0805	0806	0807			
		3-1/2"				093	094	095	096	097	098					0903	0904	0905	0906	0907	0908		
		4"					104	105	106	107	108	109					1004	1005	1006	1007	1008	1009	

	TECHNICAL SPECIFICATIONS							
Marking:	II 2G Ex db IIC Gb, II 2G Ex eb IIC Gb II 2D Ex tb IIIC Db							
Certificate:	EU-Type Examination Certificate							
Operating conditions:	Indoor / Outdoor							
Material:	Brass, nickel plated brass and stainless steel (on request)							
Gasket (washer):	Nylon							
Ingress protection:	IP66/67							
Operating temperature:	-60° to +110°C							

OSSH SHROUD (ON REQUEST)

Full catalogue available on our website: www.inpratex.com

INSTALLATION MATERIAL



Shrouds for fitting over cable glands when additional environmental conditions are required.

Material: CR70 (PCP)

For outdoor or indoor use.



ITEM REFERENCES E1WF TYPE CABLE GLANDS (SUPPLIED ON REQUEST)											
Туре:	Size:	D	d	L							
OSSH-A-16	16	28	6	93							
OSSH-A-20	20	35	10	98							
OSSH-A-25	25	40	14	102							
OSSH-A-32	32	50	18	115							
OSSH-A-40	40	60	24	124							
OSSH-A-50	50	74	30	132							
OSSH-A-63	63	89	38	152							
OSSH-A-75	75	107	53	171							
OSSH-A-90	90	121	72	175							
OSSH-A-100	100	131	86	190							

	ITEM REFERENCES OSNJ TYPE CABLE GLANDS (SUPPLIED ON REQUEST)										
Туре:	Size:	D	d	L							
OSSH-B-16	16	24	4	52							
OSSH-B-20	20	28	7	55							
OSSH-B-25	25	32	12	59							
OSSH-B-32	32	40	15	65							
OSSH-B-40	40	50	21	71							
OSSH-B-50	50	60	28	79							
OSSH-B-63	63	78	30	111							
OSSH-A-63	75	89	38	152							
OSSH-A-75	90	107	53	171							
OSSH-A-90	100	121	72	175							

OSLN LOCK NUT (ON REQUEST)

Full catalogue available on our website: www.inpratex.com

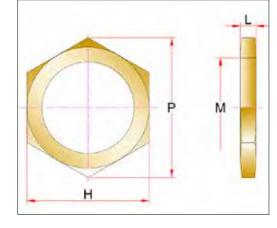
INSTALLATION MATERIAL

Lock nut designed for securing a cable gland in position of the equipment.

Material: Brass, Nickel plated brass, Stainless steel (316L)







	ITEM REFERENCES - METRIC TH	READ (SUPPLIED ON REQUEST)	
Size:	Н	Р	L
OSLN M16	22	25	4
OSLN M20	27	31	4
OSLN M25	32	36,5	4
OSLN M32	39	44,5	5
OSLN M40	48	55	5
OSLN M50	60	69	5
OSLN M63	73	84	6
OSLN M75	85	98	6
OSLN M90	102	117	10
OSLN M100	112	128	12
OSLN M115	125	144	12

	ITEM REFERENCES - NPT THREAD (SUPPLIED ON REQUEST)									
Size:	Н	Р	L							
OSLN 1/2"	27	31	4							
OSLN 3/4"	32	36	4							
OSLN 1"	39	45	5							
OSLN 1-1/4"	48	55,5	5							
OSLN 1-1/2"	60	67	5							
OSLN 2"	73	87	6							
OSLN 2-1/2"	85	98	6							
OSLN 3"	102	119	10							
OSLN 3-1/2"	112	126	12							
OSLN 4"	125	144	12							

OSTW SERRATED WASHER / TEETH WASHER (ON REQUEST)

Full catalogue available on our website: www.inpratex.com

INSTALLATION MATERIAL

Serrated washer / Teeth washer for use on cable gland entry threads.

To dampen vibrations of the cable gland / equipment assembly which may loosen the cable gland or lock nut.

Stainless steel. Outdoor or indoor use.



	ITEM REFERENCES - METRIC THREAD (SUPPLIED ON REQUEST)									
Size:	D	d	t							
OSTW M16	26	17,5	2							
OSTW M20	32	21,5	3							
OSTW M25	38	27	3							
OSTW M32	46	33,4	3,5							
OSTW M40	57	42,4	3,5							
OSTW M50	72	50,5	3,5							
OSTW M63	87	64	4							
OSTW M75	98	76	4							
OSTW M90	113	91	4							
OSTW M100	124	103	4							
OSTW M115	140	116	4							

	ITEM REFERENCES - NPT THREAD (SUPPLIED ON REQUEST)									
Size:	D	d	t							
OSTW 3/8"	26	17,5	2							
OSTW 1/2"	32	21,5	3							
OSTW 3/4"	38	27	3							
OSTW 1"	46	33,4	3,5							
OSTW 1-1/4"	57	42,4	3,5							
OSTW 1-1/2"	72	50,5	3,5							
OSTW 2"	87	64	4							
OSTW 2-1/2"	98	76	4							
OSTW 3"	113	91	4							
OSTW 3-1/2"	124	103	4							
OSTW 4"	140	116	4							

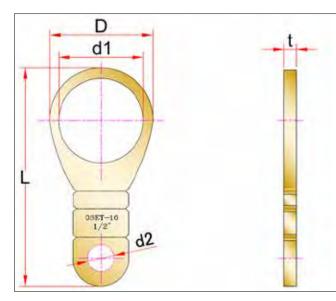
OSET EARTH TAG (ON REQUEST)

INSTALLATION MATERIAL

Metallic earth tags for use with metallic cable glands to provide an earthing/bonding point.

Material: Brass, Nickel plated brass, Stainless steel (316L)





	ITEM REF	ERENCES - METRIC TH	READ (SUPPLIED ON F	REQUEST)	
Size:	D	d1	d2	t	L
OSET M16	1,5	17,5	7	1,5	59
OSET M20	1,5	21,5	7	1,5	72
OSET M25	1,5	27	7	1,5	82,4
OSET M32	44	33,4	8,6	1,5	99
OSET M40	54	42,4	8,6	1,5	112
OSET M50	67	50,5	8,6	1,5	125
OSET M63	80	64	8,6	1,5	154
OSET M75	97	76	14	1,5	163
OSET M90	110	91	14	1,5	178
OSET M100	120	103	14	1,5	195
OSET M115	130	116	14	1,5	208

	ITEM REFERENCES - NPT THREAD (SUPPLIED ON REQUEST)										
Size:	D	d1	d2	t	L						
OSET 3/8"	1,5	17,5	7	1,5	59						
OSET 1/2"	1,5	21,5	7	1,5	72						
OSET 3/4"	1,5	27	7	1,5	82,4						
OSET 1"	44	33,4	8,6	1,5	99						
OSET 1-1/4"	54	42,4	8,6	1,5	112						
OSET 1-1/2"	67	50,5	8,6	1,5	125						
OSET 2"	80	64	8,6	1,5	154						
OSET 2-1/2"	97	76	14	1,5	163						
OSET 3"	110	91	14	1,5	178						
OSET 3-1/2"	120	103	14	1,5	195						
OSET 4"	130	116	14	1,5	208						

<u>COMMUNICATION</u>



7 - COMMUNICATION

ATEX-certified Analog fixed telephones, suitable for extreme environmental conditions in explosive atmospheres caused by gases and vapours, and by dust in suspension.

Professional ATEX-certified walkie-talkies, designed and manufactured to prevent ignition of the explosive atmosphere around them. Their certification allows them to work inside potentially explosive areas.

Certified Howl-call phones for communication inside tunnels and in mines, or in those confined spaces where it is extremely complicated to receive or send communication signals. Communication systems that don't need an external power supply to be able to communicate in such difficult areas as inside of mines, tunnels, collectors, offshore platforms and in general all those places where a safe communication is needed in zones with risk of explosion.

All our communication devices are ideal for use in refineries and pipelines, chemical and pharmaceutical industries, ports, airports, etc...

ANALOG PHONES WALKIE TALKIES HOWL-CALL TELEPHONES

EXRESISTTEL EXPLOSION-PROOF TELEPHONE (ANALOGUE)

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX COMMUNICATIONS

ZONES 1, 2 (gas) & 21, 22 (dust)





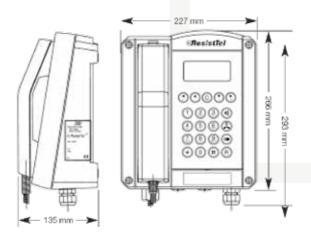
Communication devices for uses in firedamp-endangered industrial areas must be particularly adjusted to their extreme operating conditions. This ex telephone has been specially designed for applications in the petrochemical industry, as well as offshore installations, mills and port facilities. It is resistant to high temperature differences, humidity, sea water, dust and extensive mechanical strain.

The ExResistTel is certified for areas susceptible to explosive dusts and gases. It is equipped with a 21-key stainless steel keypad that has been especially designed for use with gloves.



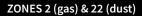
ITEM REFERENCES			
Designation:	Model:	Item No.:	
ExResistTel	With keypad and display	4A0101	
ExResistTel	With keypad and display, protection class I	4A0102	
ExResistTel ZB	Without keypad and display	4A0103	

TECHNICAL SPECIFICATIONS		
Marking:	$\begin{array}{c} & \begin{array}{l} & \begin{array}{l} & \begin{array}{l} & \begin{array}{l} & \begin{array}{l} & \end{array} \end{array} \\ & \begin{array}{l} & \end{array} \end{array} \\ & \begin{array}{l} & \begin{array}{l} & \end{array} \end{array} \\ & \begin{array}{l} & \begin{array}{l} & \end{array} \end{array} \\ \\ & \end{array} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \end{array} $ \\ & \begin{array}{l} & \begin{array}{l} & \end{array} \end{array} \\	
Certificate:	EU-Type Examination Certificate	
Supply voltage:	24 V66 VDC	
Supply curren:	15 mA100 mA DC	
Housing:	Glass fibre reinforced polyester	
Ingress protection:	IP66 / IK09	
Weight:	Approx. 5,5 kg	
Display:	Two-line alphanumeric diplay with pictograms. Visual field approx. 78 mm x 26 mm	
Keypad:	Metal keypad with ice protection. 21 keys with ABC lettering for name entries	
Cable entries:	1xM20x1,5 plastic cable gland / 2xM20x1,5 plastic plugs	



Zones 2, 22

ATEX COMMUNICATIONS



Analogue desk/wall telephone for applications in potentially explosive areas (zones 2 and 22). This telephone comprises a housing made of impact-resistant thermoplastic and is certified according to ATEX. In the field of the chemical and petrochemical industry potentially explosive atmospheres occur during production procedures caused by e.g. gases, vapours or mist.

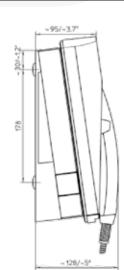
The impact-resistant thermoplatic housing as well as the use of stainless steel screws add further special advantages to the FernTel 3.

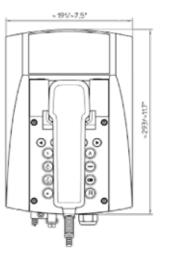
Moreover, the telephone may effortlessly be converted from a wall-mounted device to a desk telephone and vice versa.



ITEM REFERENCES		
Designation:	Model:	Item No.:
FernTel 3	Without display, with spiral cord	4A0201
FernTel 3	With display, with spiral cord	4A0202
FernTel 3	Without display, with armoured cord	4A0203
FernTel 3	With display, with armoured cord	4A0204

	TECHNICAL SPECIFICATIONS		
Marking:	II 3G Ex nA ic IIC T5 GC II 3D Ex tc ic IIIC T80°C Dc		
Certificate:	EU-Type Examination Certificate		
Ringing frequency:	Settable: 16 Hz to 68 Hz		
Supply voltage:	24 V66 V DC		
Housing:	Impact-resistant thermoplastic		
Weight:	Approx. 2,3 kg		
Operating temperature:	-20°C to +55°C		
Ingress protection:	IP65		
Cable entries:	1xM20x1,5 plastic cable gland / 1xM20x1,5 plastic plug		





Zones 0, 1, 2

ATEX COMMUNICATIONS

ZONES 0, 1, 2 (gas) & Mines

COMMUNICATION 3



Battery and network-independent telephone system for applications under rough conditions, even in potentially explosive or firedamp-endangered areas.

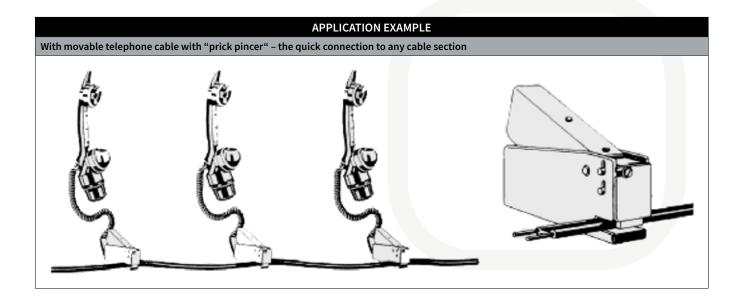
Without any external power supply or complex equipment, it can be installed in blast furnace areas, in tunnel building or mining areas, offshore, on an oil rig, in a deep-sea vessel, or in any place that is not (yet) connected to any energy source. This dynamic telephony represents an ideal opportunity for connection.

The howl call telephone is a battery-free and network-independent telephone with highly efficient dynamic transmitter and receiver capsules offering remote communication without power supply.



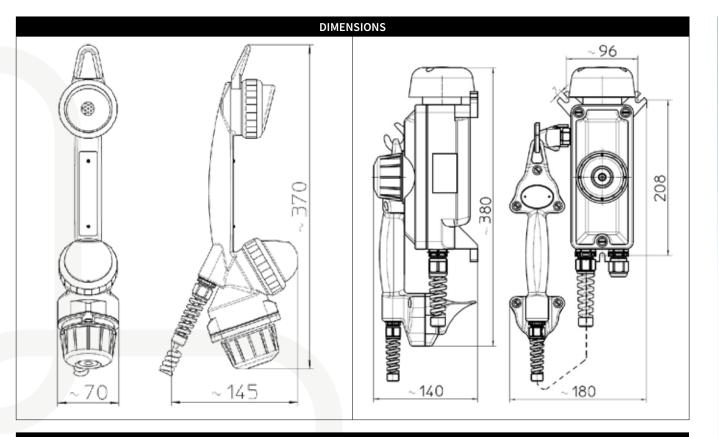
ITEM REFERENCES				
Designation:	Model:	Connected to:	Item No.:	
5069 Ex hand telephone	Without prick pincer	-	4B0101	
5069 Ex hand telephone	With prick pincer Flat-band cable		4B0103	
5220 Ex wall mounted telephone	Fixed cabling or hose line		4B0104	

ACCESSORIES	
Designation:	Item No.:
5077 Prick pincer, stainless steel sheet with 1 m cable (wall mounted telephone)	4B0204
Flat-band cable, 2-wire, tensile strength approx. 500 N (lengths on request)	4B0205



EX HOWL-CALL TELEPHONE Zones 0, 1, 2

COMUNICATION 😨 🖌



	ELEMENTS	
Wall-mounted telephone 5220	Hand telephone 5069	Prick pincer 5077

TECHNICAL SPECIFICATIONS				
Marking:	EX I M1 Ex ia I Ma			
	Ex hand telephone 5069	Ex wall mounted telephone 5220		
Certificate:	EU-Type Examination Certificate	EU-Type Examination Certificate		
Weight:	Approx. 1 kg	Approx. 2,5 kg		
Maximum output voltage:	Uo +/- 10 V			
Maximum output current:	lo +/- 155 mA			
Maximum output power:	Po 390 mW			
Ringing frequency:	f ~ 1540 Hz			
Talking frequency:	f ≤ 3000 Hz			
Talking voltage:	U ≤ 2 Vss			
Talking current:	I ≤ 10 mA			
Mode of operation:	100 % duty cycle			
Housing:	Polyamide (Black)			
Operating temperature:	-20°C to +40°C			
Ingress protection:	IP54			
Connection:	2-wire blue power cable			

Zones 1, 2

ZONES 1, 2 (gas) **ATEX COMMUNICATIONS**



Professional range of ATEX IIA & IIC certified radios. The rugged DTEx Series delivers exceptionally loud audio coupled with outstanding audio clarity, plus the ergonomic controls are specifically designed for gloved hand use.

By combining the latest DMR digital technology and highest ATEX gas group ratings, the DTEx series delivers best in class range, safety and reliability. Exceeding MIL-STD-810 and a market leading IP68 rating (2-meters 4-hours) the fully submersible DTEx can be depended on to withstand the most extreme and hostile of environments.

- Commercial grade construction
- Digital and analogue modes
- Outstanding range and performance
- Crystal clear audio
- High contrast white on black OLED
- Simple end user programming app
- Extensive range of approved accessories





			ITEM REFERENCES			
Model:	Channels:	Screen:	Frequency / Band:	RFPower:	Tier:	Gas group:
DT822	16	No	VHF / 136-17 <mark>4MH</mark> z	4W	П	IIA
DT825	256	OLED	VHF / 136-174MHz	4W	П	IIA
DT882	16	No	UHF / 400-470MHz	4W	II	IIA
DT885	256	OLED	UHF / 400-470MHz	4W	II	IIA
DT922	16	No	VHF / 136-174MHz	1W	II	lic
DT925	256	OLED	VHF / 136-174MHz	1W	П	IIC
DT982	16	No	UHF / 400-470MHz	1W	II	IIC
DT985	256	OLED	UHF / 400-470MHz	1W	II	IIC
DT952	16	No	PMR/DMR446 / 446-446.2MHz	0,5W	I	IIC
DT953	256	OLED	PMR/DMR446 / 446-446.2MHz	0,5W	I	IIC

ATEX RADIOS DTEX SERIES

GENERAL TECHNICAL SPECIFICATIONS		
Marking:	😥 II 2G Ex ib IIA T4 Gb 😣 II 2G Ex ib IIC T4 Gb (depending on the model)	
Certificate:	EU-Type Examination Certificate	
Operating Temperature:	-20°C to +55°C	
Storage Temperature:	-40°C to +85°C	
Ingress protection:	IP68 (2m 4h Submersible)	
Channels:	16 (non-display) / 256 (display)	
Number of Zones:	8 (display)	
Analogue Channel Spacing:	12.5/20/25KHz	
Digital Channel Spacings:	12.5KHz	
Battery:	1800mAh Lithium-Ion	
Weight:	435g	
Dimensions:	138 x 60 x 38 mm	
Frequency Stability:	±1.5ppm	
Operating Voltage:	7.4v	
Programmable Buttons:	3 (non-display) / 5 (display)	
Battery Endurance (5/5/90 Duty Cycle @ 1W)	Analogue 14.5 hours Digital 18.5 hours	

TRANSMITTER TECHNICAL SPECIFICATIONS		
Modulation Limiting:	±2.5kHz @ 12.5kHz ±4.0kHz @ 20kHz ±5.0kHz @ 25kHz	
Conducted / Radiated Spurious Emissions:	Better than -36dBm	
Adjacent Channel Power:	Better than 60dB	
Audio Distortion (Typical):	3%	



RECEIVER TECHNICAL SPECIFICATIONS				
Sensitivity (Typical):	Analogue 121dBm (0.2uV) for 12dB SINAD Digital 121dBm (0.2uV) for 5% BER			
Intermodulation Response Rejection (ETSI):	> 70dB			
Adjacent Channel Selectivity (ETSI):	> 70dB(12.5KHz) 60dB(25KHz)			
Spurious Response Rejection (ETSI):	> 70dB			
Audio Output Power:	1 watt			
Audio Distortion (Typical):	3%			
Conducted Spurious Emission (ETSI):	> -57dBm			

		ACCES	SORIES		
P					
CHPD/DT9	CHPHD/DT9	CHPHS/DT9	CLC/DT2	CLCDT5	CMP/DT9
	Y.	R	5		
CNB950EV2	CXR16/DT9	CXR5/DT9	EA12/DT9	PTT-C/DT9	PTT-E/DT9

Zones 1, 2, 21, 22

ATEX COMMUNICATIONS

ZONES 1, 2 (gas) & 21, 22 (dust)

TP9000EX is a unique product which combines mechanical robustness and the latest state of the art radio technology into a Hand Held Radio with a userfriendly design. This ATEX certified radio is IP67 waterproof and can be used as the ultimate communication tool within chemical industries, fire brigades, emergency & rescue services, airports, off-shore industries, etc.

The UHF version is type approved for On Board Communication according to EN 300 720 and fulfils the IEC 60945 marine standards. A perferct tool to fulfilment of the SOLAS requirement.

Key features:

- IP67 Waterproof
- CTCSS, 5-TONE, CCIR, ZVEI, EEA & EIA
- Long operational time
- Power Output 2 Watt
- 16 Channels
- 3450 mAh battery

Antenna, Battery, Bolt Clip and Charger included









ITEM REFERENCES				
Model: Channels: Frequency / Band: Bandwidth: Article No.:				
TP9000EX Thor1 VHF 64-88 MHz	16	VHF / 64-88 MHz	24 MHz	4C0501
TP9000EX Thor1 VHF 146-174 MHz	16	VHF / 146-174 MHz	28 MHz	4C0502
TP9000EX Thor1 UHF 406-470 MHz	16	UHF / 406-470Mhz	64 MHz	4C0503

ATEX TP9000EX THOR1 ANALOG T4 RADIO

GENERAL TECHNICAL SPECIFICATIONS		
Marking:	EX I M2 EX Ib I I 2G EX Ib IIC T4 II 2D Ex Ib IIIC T110°C	
Certificate:	EU-Type Examination Certificate	
According to the directives:	RoHS 2011/65/EU, MED 2014/90/EU & RED 2014/53/EU	
Applied standards:	EN 62368, EN/IEC 60945, EN 301.489, EN 300.086 & EN300.720 (analog part)	
Operating Temperature: Classificatio Channel spa Frequency e Operation m Antenna im Weight:	-20°C to +55°C i7 Waterproo ,5 / 20 / 25 KH ppm nplex / Semi- ohm Dg	
Dimensions:	H = 137, B = 64, D = 35mm	
Operational time (fully charged battery & 2 W TX-output):	5 % TX, 5 % RX & 90 % Standby 3450 mAh battery: 10/14 hours	
Signalling:	CTCSS / DSC	
Side connector:	16 pin for accessories	

RECEIVER TECHNICAL SPECIFICATIONS		
DMR sensitivity:	- 124 Dbm.	
Sensitivity at 20 dB SINAD:	0,45 μV	
(EMF) (25 KHz channel spacing) at 12 dB SINAD EMF:	0,3 μV	
LF output power:	2 x 0,5 Watt	
LF distortion:	< 10 %	
LF frequency response:	300 - 3000 Hz	
Signal / noise ratio:	45 dB	
Co-Channel attenuation:	-3 dB	
Neighbour channel selectivity:	> 70 dB	
Attenuation of spurious:	> 70 dB	
Intermodulation selectivity:	> 66 dB	
Blocking:	> 90 dB	
Transmission of spurious (antenna & cabinet):	2 nW equivalent to -57 dBm	
Squelch tresshold level:	Programmable	

TRANSMITTER TECHNICAL SPECIFICATIONS		
Output Power:	Programmable 0.5 - 2 Watt	
Transmission of spurious:	< 0,25 μW or - 36 dBm	
Antenna & cabinet Max. Deviation:	± 5 KHz / 25 KHz channel	
Modulation distortion:	< 5 % @ ± 3,0 KHz	
Signal / noise relation:	45 dB	
LF frequency response:	300 - 3000 Hz	

ATEX TP9000EX THOR1 ANALOG T4 RADIO

Zones 1, 2, 21, 22

	ACCES	SORIES	
	E		CERTIFICATION OF THE
SCULL MIC HEADSET	HEADSET IN-EAR	HEADSET CONVERTER PLUG	BATTERY LI-ION
6	S		
THROAT MIC HEADSET	HEADSET WITH BOOM MIC	HEADSET "SURVEILANCE"	CLOSE-TALK
	EU		
CHARGER	AC 100-240V	CARY CASE	SHOULDER HARNESS
PTT			

ATEX TP9000EX THOR2 DIGITAL/ANALOG T4 RADIO

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX COMMUNICATIONS

ZONES 1, 2 (gas) & 21, 22 (dust)

TP9000EX is a unique product which combines mechanical robustness and the latest state of the art radio technology into a Hand Held Radio with a userfriendly design. This ATEX certified radio is IP67 waterproof and can be used as the ultimate communication tool within chemical industries, fire brigades, emergency & rescue services, airports, off-shore industries, etc.

The UHF version is type approved for On Board Communication according to EN 300 720 and fulfils the IEC 60945 marine standards. A perferct tool to fulfilment of the SOLAS requirement.



ITEM REFERENCES					
Model:	Channels:	Frequency / Band:	Bandwidth:	Article No.:	
TP9000EX Thor2 VHF 64-88 MHz	16+16+99	VHF / 64-88 MHz	24 MHz	4C0601	
TP9000EX Thor2 VHF 146-174 MHz	16+16+99	VHF / 146-174 MHz	28 MHz	4C0602	
TP9000EX Thor2 UHF 406-470 MHz	16+16+99	UHF / 406-470Mhz	64 MHz	4C0603	

ATEX TP9000EX THOR2 DIGITAL/ANALOG T4 RADIO

Zones 1, 2, 21, 22

GENERAL TECHNICAL SPECIFICATIONS		
Marking:	I M2 EX ib I II 2G Ex ib IIC T4 II 2D Ex ib IIIC T110°C	
Certificate:	EU-Type Examination Certificate	
According to the directives:	RoHS 2011/65/EU, MED 2014/90/EU & RED 2014/53/EU	
Applied standards:	EN 62368, EN/IEC 60945, EN 301.489, EN 300.086 & EN300.720 (analog part)	
Operating Temperature:	-20°C to +55°C	
Classifications:	IP67 Waterproof / Exceeds MIL 810 c,d,e,f	
Channel spacing:	12,5 / 20 / 25 KHz	
Frequency error:	±2 ppm	
Operation mode:	Simplex / Semi-Duplex	
Antenna impedance:	50 ohm	
Weight:	260g	
Dimensions:	H = 137, B = 64, D = 35mm	
Operational time (fully charged battery & 2 W TX-output):	5 % TX, 5 % RX & 90 % Standby 3450 mAh battery: 10/14 hours	
Signalling:	CTCSS / DSC	
Side connector:	16 pin for accessories	

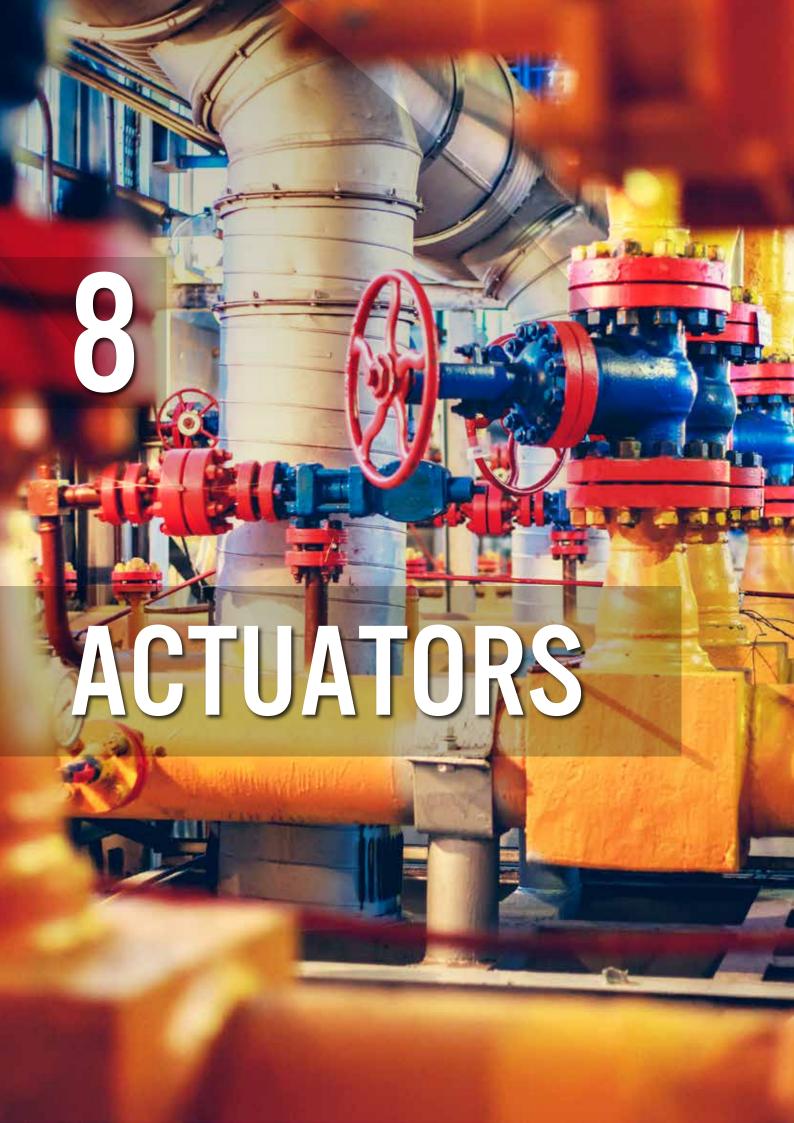
RECEIVER TECHNICAL SPECIFICATIONS		
DMR sensitivity:	- 124 Dbm.	
Sensitivity at 20 dB SINAD:	0,45 μV	
(EMF) (25 KHz channel spacing) at 12 dB SINAD EMF:	0,3 μV	
LF output power:	2 x 0,5 Watt	
LF distortion:	< 10 %	
LF frequency response:	300 - 3000 Hz	
Signal / noise ratio:	45 dB	
Co-Channel attenuation:	-3 dB	
Neighbour channel selectivity:	> 70 dB	
Attenuation of spurious:	> 70 dB	
Intermodulation selectivity:	> 66 dB	
Blocking:	> 90 dB	
Transmission of spurious (antenna & cabinet):	2 nW equivalent to -57 dBm	
Squelch tresshold level:	Programmable	

TRANSMITTER TECHNICAL SPECIFICATIONS		
Output Power:	Programmable 0.5 - 2 Watt	
Transmission of spurious:	< 0,25 μW or - 36 dBm	
Antenna & cabinet Max. Deviation:	± 5 KHz / 25 KHz channel	
Modulation distortion:	< 5 % @ ± 3,0 KHz	
Signal / noise relation:	45 dB	
LF frequency response:	300 - 3000 Hz	

ATEX TP9000EX THOR2 DIGITAL/ANALOG T4 RADIO

Zones 1, 2, 21, 22

	ACCES	SORIES	
	E		C COMOS M M M
SCULL MIC HEADSET	HEADSET IN-EAR	HEADSET CONVERTER PLUG	BATTERY LI-ION
	S		
THROAT MIC HEADSET	HEADSET WITH BOOM MIC	HEADSET "SURVEILANCE"	CLOSE-TALK
	EU	and the second s	
CHARGER	AC 100-240V	CARY CASE	SHOULDER HARNESS
PTT			





ATEX Certified Electronic devices that are able to generate a force from electrical energy, receiving the command from a regulator or controller and giving an output necessary to activate a final control element, such as valves.

It is necessary to know very well the specifications of each actuator and the required operation in order to use them correctly, according to their specific application.

Suitable for all types of applications, particularly in the Chemical, Nuclear, Electronic, Automotive, Food, Pharmaceutical industries and other areas such as Metallurgical, Co-generation plants, Wastewater treatment, Petrochemical, Off-Shore installations, etc.

Customized adaptation systems for any type of valve.

EXMAX 90° ACTUADOR TYPE 'S' ZONE 1, 21 EXMAX 90° ACTUADOR TYPE 'M' ZONE 1, 21 REDMAX 90° ACTUADOR TYPE 'S' ZONE 2, 22 REDMAX 90° ACTUADOR TYPE 'M' ZONE 2, 22

EXMAX 90° EX QUARTER TURN ACTUATOR - SIZE 'S'

Zones 1, 2, 21, 22

ATEX ACTUATORS

ZONES 1, 2 (gas) & 21, 22 (dust)



ExMax ATEX certified quarter turn actuators are, in acc. with type, for automation of air dampers, fire and smoke dampers, volume control, as well as for ball valves, throttle valves and other quarter turn armatures.

Up to 5 different running times adjustable on site.

Robust aluminium housing, IP66, optional in stainless steel.



TECHNICAL SPECIFICATIONS		
Marking:	(x) II 2(2)G Ex db [ib Gb] IIC T6, T5, T4 Gb (x) II 2(2)D Ex tb [ib Db] IIIC IP66 T80°C, T95°C, T130°C Db	
Certificate:	EU-Type Examination Certificate	
Torque*:	5-30 Nm	
Power supply:	24-240 V AC / DC	
Frequency:	50-60 HZ	
Angle of rotation:	95°	
Motor running time:	3,15,30,60,120 sec/90°	
Spring return*:	1, 3, 10 sec/90° selectable	
Control mode*:	On-off, 3-pos, 0-10 V DC, 4-20 mA	
Feedback*:	0-10 V DC, 4-20 mA	
Squared shaft connection:	12 x 12 mm	
Ingress protection:	IP66	
Operating temperature:	-40°+40°C (T6) / -40°+50°C (T5) / -40°+60°C (T4)	
Cable:	1m	
Dimensions:	210 × 95 × 80 mm	
Weight:	Alu ca. 3,5 kg, VA ca. 7 kg	
*depending on type		

Ex-d QUARTER TURN ACTUATORS WITHOUT SPRING RETURN, 24 TO 240 VAC/DC									
Туре:	Torque:	Running time 90°:	Running time 90°: Control mode:		Item No.:				
ExMax- 5.10	5 Nm / 10 Nm	3/15/30/60/120 sec.	On-off, 3-pos	-	8A0101				
ExMax- 15.30	15 Nm / 30 Nm	3/15/30/60/120 sec.	On-off, 3-pos	-	8A0102				
ExMax- 5.10-S	5 Nm / 10 Nm	3/15/30/60/120 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	8A0103				
ExMax- 15.30-S	15 Nm / 30 Nm	3/15/30/60/120 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	8A0104				
ExMax- 5.10-Y	5 Nm / 10 Nm	7,5/15/30/60/120 sec.	3-pos 010 VDC, 420 mA	010 VDC, 420 mA	8A0105				
ExMax- 15.30-Y	15 Nm / 30 Nm	7,5/15/30/60/120 sec.	3-pos 010 VDC, 420 mA	010 VDC, 420 mA	8A0106				

EXMAX 90° EX QUARTER TURN ACTUATOR - SIZE 'S'

Zones 1, 2, 21, 22

	Ex-d QUARTER TURN ACTUATORS WITH SPRING RETURN, 24 TO 240 VAC/DC									
Туре:	Torque: Running time 90°:		Spring return:	Control mode:	Feedback:	Features:	ltem No.:			
ExMax-5.10-F	5 Nm/10 Nm	3/15/30/60/120 sec.	3 sec. / 10 sec.	On-off, 3-pos	-	-	8A0201			
ExMax- 15-F	15 Nm	3/15/30/60/120 sec.	3 sec. / 10 sec.	On-off, 3-pos	-	-	8A0202			
ExMax-5.10-SF	5 Nm/10 Nm	3/15/30/60/120 sec.	3 sec. / 10 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	-	8A0203			
ExMax- 15-SF	15 Nm	3/15/30/60/120 sec.	3 sec. / 10 sec.	On-off, 3-pos	2 x aux switches(5°/85°)	-	8A0204			
ExMax-5.10-YF	5 Nm/10 Nm	7,5/15/30/60/120 sec.	3 sec. / 10 sec.	3-pos 010 VDC, 420 mA	010 VDC, 420 mA	-	8A0205			
ExMax- 15-YF	15 Nm	7,5/15/30/60/120 sec.	3 sec. / 10 sec.	3-pos 010 VDC, 420 mA	010 VDC, 420 mA	-	8A0206			
ExMax-5.10-BF	5 Nm/10 Nm	3/15/30/60/120 sec.	3 sec. / 10 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	ExPro-TTconnector	8A0207			
ExMax- 15-BF	15 Nm	3/15/30/60/120 sec.	3 sec. / 10 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	ExPro-TTconnector	8A0208			

	Ex-d QUARTER TURN ACTUATORS WITH SPRING RETURN FOR OFFSHORE APPLICATION, 24 TO 240 VAC/DC									
Туре:	Torque:	Running time 90°:	Spring return:	Control mode:	Feedback:	Features:	Item No.:			
ExMax- 8-F1	8 Nm	3/15/30/60/120 sec.	≤1 sec.	On-off	-	-	8A0301			
ExMax-15-F1	15 Nm	3/15/30/60/120 sec.	≤1 sec.	On-off	-	-	8A0302			
ExMax- 8-SF1	8 Nm	3/15/30/60/120 sec.	≤1 sec.	On-off	2 x aux switches (5°/85°)	-	8A0303			
ExMax-15-SF1	15 Nm	3/15/30/60/120 sec.	≤1 sec.	On-off	2 x aux switches (5°/85°)	-	8A0304			
ExMax- 8-BF1	8 Nm	7,5/15/30/60/120 sec.	≤1 sec.	On-off	2 x aux switches (5°/85°)	ExPro-TTconnector	8A0305			
ExMax-15-BF1	15 Nm	7,5/15/30/60/120 sec.	≤1 sec.	On-off	2 x aux switches (5°/85°)	ExPro-TTconnector	8A0306			

	ACCESSORIES
Туре:	Technical specifications:
ExSwitch	External, adaptable, on site adjustable Ex-d auxiliary switch with 2 potential free contacts, adaptable to ExMax actuators
ExBox-3P	Ex-e terminal box connectable to ExMax actuators with 1 cable for On-off or 3-pos operation
ExBox-3P/SW	Ex-e terminal box connectable to ExMax actuators with 1 cable for On-off or 3-pos operation + 2 cable for external aux. switches type ExSwitch
ExBox-Y/S	Ex-e terminal box connectable to ExMax actuators with 2 cable, for modulating operation or 3-pos + integrated switches (HS)
ExBox-Y/S/SW	Ex-e terminal box connectable to ExMax actuators with 2 cable, for modulating or 3-pos operation with feedback signal + 2 cable for external aux. switches
ExBox-BF	Ex-e terminal box connectable to ExMax actuators with 1 cable, for all ExMaxBF
ExBox-BF/SW	Ex-e terminal box connectable to ExMax actuators with 1 cable, for all ExMaxBF + 2 cable for external aux. switches type ExSwitch
мкк-s	Mounting bracket forBox-terminal boxes for direct coupling toMax actuators size S
KB-S	Mounting bracket for round damper shaft ø 10 to 20 mm and square shafts 10 to 16 mm, incl. bracket, connectable to all RedMax size S
HV-SKU, HV-SLU	Manual override, connectable to actuators size S. HV-SKU = short version, HV-SLU = long version for add. mounting ofBox/Switch
AR-12-xx	Squared reduction part from 12x12 mm to shafts with 11 mm (type AR-12-10), 8 mm (type AR-12-08)
ExPro-TT	Safety temperature trigger for fire dampers, switching at 71°/72°C, with 1 m cable, suitable only for ExMax-/RedMaxBF actuators!
EXC-DS1/VA	Safety temperature sensor for duct mounting, potential free contact, switching at 70°C160°C (10°C steps)
DWB-S	Angle rotation limiter for mounting on actuator size S (details on request)
Retrofit-Kit-S	Mechanical adaptation for mounting on Max actuators size S, required to replace a previous type EXT15F1, EXT12F16, EXT15 or EXT30
ADS	Different adaptations for different valves available. Please don't hesitate to ask for technical solution.

REDMAX 90° EX QUARTER TURN ACTUATOR - SIZE 'S'

Zones 2, 22

ATEX ACTUATORS

ZONES 2 (gas) & 22 (dust)

ExMax ATEX certified quarter turn actuators are, in acc. with type, for automation of air dampers, fire and smoke dampers, volume control, as well as for ball valves, throttle valves and other quarter turn armatures.

Up to 5 different running times adjustable on site.

Robust aluminium housing, IP66, optional in stainless steel.



	TECHNICAL SPECIFICATIONS
Marking:	(x) II 3(3)G Ex db [ic Gc] IIC T6,T5,T4 Gc (x) II 3(3)D Ex tc [ic Dc] IIIC T80°C,T95°C,T130°C Dc
Certificate:	EU-Type Examination Certificate
Torque*:	5-30 Nm
Power supply:	24-240 V AC / DC
Frequency:	50-60 HZ
Angle of rotation:	95°
Motor running time:	3,15,30,60,120 sec/90°
Spring return*:	1, 3, 10 sec/90° selectable
Control mode*:	On-off, 3-pos, 0-10 V DC, 4-20 mA
Feedback*:	0-10 V DC, 4-20 mA
Squared shaft connection:	12 x 12 mm
Ingress protection:	IP66
Operating temperature:	-40°+40°C (T6) / -40°+50°C (T5) / -40°+60°C (T4)
Cable:	1m
Dimensions:	210 × 95 × 80 mm
Weight:	Alu ca. 3,5 kg, VA ca. 7 kg
*depending on type	

Ex-d QUARTER TURN ACTUATORS WITHOUT SPRING RETURN, 24 TO 240 VAC/DC								
Туре:	Torque:	Torque: Running time 90°: Control mode: Feedback:		Torque: Running time 90°: Control mode:		Feedback:	Item No.:	
RedMax- 5.10	5 Nm / 10 Nm	3/15/30/60/120 sec.	On-off, 3-pos	-	8A0701			
RedMax- 15.30	15 Nm / 30 Nm	3/15/30/60/120 sec.	On-off, 3-pos	-	8A0702			
RedMax- 5.10-S	5 Nm / 10 Nm	3/15/30/60/120 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	8A0703			
RedMax- 15.30-S	15 Nm / 30 Nm	3/15/30/60/120 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	8A0704			
RedMax- 5.10-Y	5 Nm / 10 Nm	7,5/15/30/60/120 sec.	3-pos 010 VDC, 420 mA	010 VDC, 420 mA	8A0705			
RedMax- 15.30-Y	15 Nm / 30 Nm	7,5/15/30/60/120 sec.	3-pos 010 VDC, 420 mA	010 VDC, 420 mA	8A0706			

REDMAX 90⁰ EX QUARTER TURN ACTUATOR - SIZE 'S'

	Ex-d QUARTER TURN ACTUATORS WITH SPRING RETURN, 24 TO 240 VAC/DC								
Туре:	Torque:	Running time 90°:	Spring return:	Control mode:	Feedback:	Features:	Item No.:		
RedMax-5.10-F	5 Nm/10 Nm	3/15/30/60/120 sec.	3 sec. / 10 sec.	On-off, 3-pos	-	-	8A0801		
RedMax- 15-F	15 Nm	3/15/30/60/120 sec.	3 sec. / 10 sec.	On-off, 3-pos	-	-	8A0802		
RedMax-5.10-SF	5 Nm/10 Nm	3/15/30/60/120 sec.	3 sec. / 10 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	-	8A0803		
RedMax- 15-SF	15 Nm	3/15/30/60/120 sec.	3 sec. / 10 sec.	On-off, 3-pos	2 x aux switches(5°/85°)	-	8A0804		
RedMax-5.10-YF	5 Nm/10 Nm	7,5/15/30/60/120 sec.	3 sec. / 10 sec.	3-pos 010 VDC, 420 mA	010 VDC, 420 mA	-	8A0805		
RedMax- 15-YF	15 Nm	7,5/15/30/60/120 sec.	3 sec. / 10 sec.	3-pos 010 VDC, 420 mA	010 VDC, 420 mA	-	8A0806		
RedMax-5.10-BF	5 Nm/10 Nm	3/15/30/60/120 sec.	3 sec. / 10 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	ExPro-TTconnector	8A0807		
RedMax- 15-BF	15 Nm	3/15/30/60/120 sec.	3 sec. / 10 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	ExPro-TTconnector	8A0808		

3	Ex-d QUARTER TURN ACTUATORS WITH SPRING RETURN FOR OFFSHORE APPLICATION, 24 TO 240 VAC/DC									
Туре:	Torque:	Running time 90°:	Spring return:	Control mode:	Feedback:	Features:	Item No.:			
RedMax- 8-F1	8 Nm	3/15/30/60/120 sec.	≤1 sec.	On-off	-	-	8A0901			
RedMax-15-F1	15 Nm	3/15/30/60/120 sec.	≤1 sec.	On-off	-	-	8A0902			
RedMax- 8-SF1	8 Nm	3/15/30/60/120 sec.	≤1 sec.	On-off	2 x aux switches (5°/85°)	-	8A0903			
RedMax-15-SF1	15 Nm	3/15/30/60/120 sec.	≤1 sec.	On-off	2 x aux switches (5°/85°)	-	8A0904			
RedMax- 8-BF1	8 Nm	3/15/30/60/120 sec.	≤1 sec.	On-off	2 x aux switches (5°/85°)	ExPro-TTconnector	8A0905			
RedMax-15-BF1	15 Nm	3/15/30/60/120 sec.	≤ 1 sec.	On-off	2 x aux switches (5°/85°)	ExPro-TTconnector	8A0906			

	ACCESSORIES
Туре:	Technical specifications:
RedSwitch	External, adaptable, on site adjustable auxiliary switch with 2 potential free contact, adaptable to RedMax actuators
RedBox-3P	Ex-e terminal box connectable to RedMax actuators with 1 cable for On-off or 3-pos operation
RedBox-3P/SW	Ex-e terminal box connectable to RedMax actuators with 1 cable for On-off or 3-pos operation + 2 cable for external aux. switches type RedSwitch
RedBox-Y/S	Ex-e terminal box connectable to RedMax actuators with 2 cable, for modulating operation or 3-pos + integrated switches (HS)
RedBox-Y/S/SW	Ex-e terminal box connectable to RedMax actuators with 2 cable, for modulating or 3-pos operating with feedback signal + 2 cable for external aux. switches
RedBox-BF	Ex-e terminal box connectable to RedMax actuators with 1 cable, for all RedMaxBF
RedBox-BF/SW	Ex-e terminal box connectable to RedMax actuators with 1 cable, for all RedMaxBF + 2 cable for external aux. switches type RedSwitch
MKK-S	Mounting bracket forBox-terminal boxes for direct coupling toMax actuators size S
KB-S	Mounting bracket for round damper shaft ø 10 to 20 mm and square shafts 10 to 16 mm, incl. bracket, connectable to all RedMax size S
KB-A	Shaft connection for damper shafts Ø 1/2", adaptable for all North AmericanMax actuators size S
HV-SKU, HV-SLU	Manual override, connectable to actuators size S, HV-SKU = short version, HV-SLU = long versión for add. mounting ofBox/Switch
AR-12-xx	Squared reduction part from 12 x 12 mm to shafts with 11 mm (type AR-12-11), 10 mm (type AR-12-10), 8 mm (type AR-12-08)
ExPro-TT	Safety temperature trigger for fire dampers, switching at 71°/72°C, with 1 m cable, suitable only for ExMax-/RedMaxBF actuators!
EXC-DS1/VA	Safety temperature sensor for duct mounting, potential free contact, switching at 70°C160°C (10°C steps)
DWB-S	Angle rotation limiter for mounting on actuator size S (details on request)
Retrofit-Kit-S	Mechanical adaptation for mounting on Max actuators size S, required to replace a previous type EXT15F1, EXT12F16, EXT15 or EXT30
ADS	Different adaptations for different valves available. Please don't hesitate to ask for technical solution.

EXMAX 90° EX QUARTER TURN ACTUATOR - SIZE 'M'

Zones 1, 2, 21, 22

ATEX ACTUATORS

ZONES 1, 2 (gas) & 21, 22 (dust)



ExMax ATEX certified quarter turn actuators are, in acc. with type, for automation of air dampers, fire and smoke dampers, volume control, as well as for ball valves, throttle valves and other quarter turn armatures.

Up to 5 different running times adjustable on site.

Robust aluminium housing, IP66, optional in stainless steel.



	TECHNICAL SPECIFICATIONS
Marking:	(I) 2(2)G Ex db [ib Gb] IIC T6, T5, T4 Gb II 2(2)D Ex tb [ib Db] IIIC T80°C, T95°C, T130°C Db
Certificate:	EU-Type Examination Certificate
Torque*:	30-150 Nm
Power supply:	24-240 V AC / DC
Frequency:	50-60 HZ
Angle of rotation:	95°
Motor running time:	40,60,90,120,150 sec/90°
Spring return*:	3, 20 sec/90° selectable
Control mode*:	On-off, 3-pos, 0-10 V DC, 4-20 mA
Feedback*:	0-10 V DC, 4-20 mA
Squared shaft connection:	16 x 16 mm
Ingress protection:	IP67
Operating temperature:	-40°+40°C (T6) / -40°+50°C (T5) / -40°+60°C (T4)
Cable:	1m
Dimensions:	288 × 149 × 116 mm
Weight:	Alu ca. 9,5 kg
*depending on type	

Ex-d QUARTER TURN ACTUATORS WITHOUT SPRING RETURN, 24 TO 240 VAC/DC								
Туре:	Torque:	Running time 90°:	Control mode:	Feedback:	Item No.:			
ExMax- 50.75	50 Nm / 75 Nm	40/60/90/120/150 sec.	On-off, 3-pos	-	8A0401			
ExMax- 100	100 Nm	40/60/90/120/150 sec.	On-off, 3-pos	-	8A0402			
ExMax- 150	150 Nm	40/60/90/120 sec.	On-off, 3-pos	-	8A0403			
ExMax-50.75-S	50 Nm / 75 Nm	40/60/90/120/150 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	8A0404			
ExMax- 100-S	100 Nm	40/60/90/120/150 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	8A0405			
ExMax- 150-S	150 Nm	40/60/90/120 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	8A0406			
ExMax-50.75-Y	50 Nm / 75 Nm	40/60/90/120/150 sec.	3-pos 010 VDC, 420 mA	010 VDC, 420 mA	8A0407			
ExMax- 100-Y	100 Nm	40/60/90/120/150 sec.	3-pos 010 VDC, 420 mA	010 VDC, 420 mA	8A0408			

EXMAX 90° EX QUARTER TURN ACTUATOR - SIZE 'M'

Zones 1, 2, 21, 22

	Ex-d QUARTER TURN ACTUATORS WITH SPRING RETURN, 24 TO 240 VAC/DC									
Туре:	Torque:	Running time 90°:	Spring return:	Control mode:	Feedback:	Features:	Item No.:			
ExMax-30-F	30 Nm	40/60/90/120/150 sec.	20 sec.	On-off, 3-pos	-	-	8A0501			
ExMax-50-F	50 Nm	40/60/90/120/150 sec.	20 sec.	On-off, 3-pos	-	-	8A0502			
ExMax-60-F	60 Nm	40/60/90/120 sec.	20 sec.	On-off, 3-pos	-	-	8A0503			
ExMax-30-SF	30 Nm	40/60/90/120/150 sec.	20 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	-	8A0504			
ExMax-50-SF	50 Nm	40/60/90/120/150 sec.	20 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	-	8A0505			
ExMax-60-SF	60 Nm	40/60/90/120 sec.	20 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	-	8A0506			
ExMax-30-YF	30 Nm	40/60/90/120/150 sec.	20 sec.	3-pos 010 VDC, 420 mA	010 VDC, 420 mA	-	8A0507			
ExMax-50-YF	50 Nm	40/60/90/120/150 sec.	20 sec.	3-pos 010 VDC, 420 mA	010 VDC, 420 mA	-	8A0508			
ExMax-30-BF	30 Nm	40/60/90/120/150 sec.	20 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	ExPro-TTconnector	8A0509			
ExMax-50-BF	50 Nm	40/60/90/120/150 sec.	20 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	ExPro-TTconnector	8A0510			
ExMax-60-BF	60 Nm	40/60/90/120 sec.	20 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	ExPro-TTconnector	8A0511			

	Ex-d QUARTER TURN ACTUATORS WITH SPRING RETURN FOR OFFSHORE APPLICATION, 24 TO 240 VAC/DC							
Туре:	Torque:	Running time 90°:	Spring return:	- Control mode: Feedback: Featur		Features:	Item No.:	
ExMax-30-F3	30 Nm	40/60/90/120/150 sec.	≤ 3 sec.	On-off	-	-	8A0601	
ExMax-50-F3	50 Nm	40/60/90/120/150 sec.	≤ 3 sec.	On-off	-	-	8A0602	
ExMax-30-SF3	30 Nm	40/60/90/120/150 sec.	≤ 3 sec.	On-off	2 x aux switches (5°/85°)	-	8A0603	
ExMax-50-SF3	50 Nm	40/60/90/120/150 sec.	≤ 3 sec.	On-off	2 x aux switches (5°/85°)	-	8A0604	
ExMax-30-BF3	30 Nm	40/60/90/120/150 sec.	≤ 3 sec.	On-off	2 x aux switches (5°/85°)	ExPro-TTconnector	8A0605	
ExMax-50-BF3	50 Nm	40/60/90/120/150 sec.	≤ 3 sec.	On-off	2 x aux switches (5°/85°)	ExPro-TTconnector	8A0606	

	ACCESSORIES
Туре:	Technical specifications:
ExSwitch	External, adaptable, on site adjustable Ex-d auxiliary switch with 2 potential free contacts, adaptable to ExMax actuators
ExBox-3P	Ex-e terminal box connectable to ExMax actuators with 1 cable for On-off or 3-pos operation
ExBox-3P/SW	Ex-e terminal box connectable to ExMax actuators with 1 cable for On-off or 3-pos operation + 2 cable for external aux. switches type ExSwitch
ExBox-Y/S	Ex-e terminal box connectable to ExMax actuators with 2 cable, for modulating operation or 3-pos + integrated switches (HS)
ExBox-Y/S/SW	Ex-e terminal box connectable to ExMax actuators with 2 cable, for modulating or 3-pos operation with feedback signal + 2 cable for external aux. switches
ExBox-BF	Ex-e terminal box connectable to ExMax actuators with 1 cable, for all ExMaxBF
ExBox-BF/SW	Ex-e terminal box connectable to ExMax actuators with 1 cable, for all ExMaxBF + 2 cable for external aux. switches type ExSwitch
МКК-М	Mounting bracket forBox-terminal boxes for direct coupling toMax actuators size M
HV-MU	Manual override, connectable to actuators size M
AR-16-xx	Squared reduction part from 16 x 16 mm to shafts with 14 mm (type AR-16-14), 12 mm (type AR-16-12)
ExPro-TT	Safety temperature trigger for fire dampers, switching at 71°/72°C, with 1 m cable, suitable only for ExMax-/RedMaxBF actuators!
EXC-DS1/VA	Safety temperature sensor for duct mounting, potential free contact, switching at 70°C160°C (10°C steps)
DWB-M	Angle rotation limiter for mounting on actuator size M
Retrofit-Kit-M	Mechanical adaptation for mounting on Max actuators size M, required to replace a previous type EXT15F1, EXT12F16, EXT15 or EXT30
ADM	Different adaptations for different valves available. Please don't hesitate to ask for technical solution.

REDMAX 90° EX QUARTER TURN ACTUATOR - SIZE 'M'

Zones 2, 22

ATEX ACTUATORS

ZONES 2 (gas) & 22 (dust)

ExMax ATEX certified quarter turn actuators are, in acc. with type, for automation of air dampers, fire and smoke dampers, volume control, as well as for ball valves, throttle valves and other quarter turn armatures.

Up to 5 different running times adjustable on site.

Robust aluminium housing, IP66, optional in stainless steel.



	TECHNICAL SPECIFICATIONS				
Marking:	(x) II 3 (3) G Ex db [ic Gc] IIC T6,T5,T4 Gc (x) II 3 (3) D Ex tc [ic Dc] IIIC T80°C,T95°C,T130°C Dc				
ertificate: EU-Type Examination Certificate					
Torque*:	30-150 Nm				
Power supply:	24-240 V AC / DC				
Frequency:	50-60 HZ				
Angle of rotation:	95°				
Motor running time:	40,60,90,120,150 sec/90°				
Spring return*:	3, 20 sec/90°				
Control mode*:	On-off, 3-pos, 0-10 V DC, 4-20 mA				
Feedback*:	0-10 V DC, 4-20 mA				
Squared shaft connection:	16 x 16 mm				
Ingress protection:	IP66				
Operating temperature:	-40°+40°C (T6) / -40°+50°C (T5) / -40°+60°C (T4)				
Cable:	1m				
Dimensions:	288 × 149 × 116 mm				
Weight:	Alu ca. 9,5 kg				
*depending on type					

Ex-d QUARTER TURN ACTUATORS WITHOUT SPRING RETURN, 24 TO 240 VAC/DC					
Туре:	Torque:	Running time 90°:	Control mode:	Feedback:	Item No.:
RedMax- 50.75	50 Nm / 75 Nm	40/60/90/120/150 sec.	On-off, 3-pos	-	8A1001
RedMax- 100	100 Nm	40/60/90/120/150 sec.	On-off, 3-pos	-	8A1002
RedMax- 150	150 Nm	40/60/90/120 sec.	On-off, 3-pos	-	8A1003
RedMax-50.75-S	50 Nm / 75 Nm	40/60/90/120/150 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	8A1004
RedMax- 100-S	100 Nm	40/60/90/120/150 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	8A1005
RedMax- 150-S	150 Nm	40/60/90/120 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	8A1006
RedMax-50.75-Y	50 Nm / 75 Nm	40/60/90/120/150 sec.	3-pos 010 VDC, 420 mA	010 VDC, 420 mA	8A1007
RedMax- 100-Y	100 Nm	40/60/90/120/150 sec.	3-pos 010 VDC, 420 mA	010 VDC, 420 mA	8A1008

REDMAX 90⁰ EX QUARTER TURN ACTUATOR - SIZE 'M'

	Ex-d QUARTER TURN ACTUATORS WITH SPRING RETURN, 24 TO 240 VAC/DC						
Туре:	Torque:	Running time 90°:	Spring return:	Control mode:	Feedback:	Features:	Item No.:
RedMax-30-F	30 Nm	40/60/90/120/150 sec.	20 sec.	On-off, 3-pos	-	-	8A1101
RedMax-50-F	50 Nm	40/60/90/120/150 sec.	20 sec.	On-off, 3-pos	-	-	8A1102
RedMax-60-F	60 Nm	40/60/90/120 sec.	20 sec.	On-off, 3-pos	-	-	8A1103
RedMax-30-SF	30 Nm	40/60/90/120/150 sec.	20 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	-	8A1104
RedMax-50-SF	50 Nm	40/60/90/120/150 sec.	20 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	-	8A1105
RedMax-60-SF	60 Nm	40/60/90/120 sec.	20 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	-	8A1106
RedMax-30-YF	30 Nm	40/60/90/120/150 sec.	20 sec.	3-pos 010 VDC, 420 mA	010 VDC, 420 mA	-	8A1107
RedMax-50-YF	50 Nm	40/60/90/120/150 sec.	20 sec.	3-pos 010 VDC, 420 mA	010 VDC, 420 mA	-	8A1108
RedMax-30-BF	30 Nm	40/60/90/120/150 sec.	20 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	ExPro-TTconnector	8A1109
RedMax-50-BF	50 Nm	40/60/90/120/150 sec.	20 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	ExPro-TTconnector	8A1110
RedMax-60-BF	60 nM	40/60/90/120 sec.	20 sec.	On-off, 3-pos	2 x aux switches (5°/85°)	ExPro-TTconnector	8A1111

E	Ex-d QUARTER TURN ACTUATORS WITH SPRING RETURN FOR OFFSHORE APPLICATION, 24 TO 240 VAC/DC							
Туре:	Torque:	Running time 90°:	Spring return:	Control mode:	Feedback	Features:	Item No.:	
RedMax-30-F3	30 Nm	40/60/90/120/150 sec.	≤ 3 sec.	On-off	-	-	8A1201	
RedMax-50-F3	50 Nm	40/60/90/120/150 sec.	≤ 3 sec.	On-off	-	-	8A1202	
RedMax-30-SF3	30 Nm	40/60/90/120/150 sec.	≤ 3 sec.	On-off	2 x aux switches (5°/85°)	-	8A1203	
RedMax-50-SF3	50 Nm	40/60/90/120/150 sec.	≤ 3 sec.	On-off	2 x aux switches (5°/85°)	-	8A1204	
RedMax-30-BF3	30 Nm	40/60/90/120/150 sec.	≤ 3 sec.	On-off	2 x aux switches (5°/85°)	ExPro-TTconnector	8A1205	
RedMax-50-BF3	50 Nm	40/60/90/120/150 sec.	≤ 3 sec.	On-off	2 x aux switches (5°/85°)	ExPro-TTconnector	8A1206	

	ACCESSORIES
Туре:	Technical specifications:
RedSwitch	External, adaptable, on site adjustable auxiliary switch with 2 potential free contact, adaptable to RedMax actuators
RedBox-3P	Ex-e terminal box connectable to RedMax actuators with 1 cable for On-off or 3-pos operation
RedBox-3P/SW	Ex-e terminal box connectable to RedMax actuators with 1 cable for On-off or 3-pos operation + 2 cable for external aux. switches type RedSwitch
RedBox-Y/S	Ex-e terminal box connectable to RedMax actuators with 2 cable, for modulating operation or 3-pos + integrated switches (HS)
RedBox-Y/S/SW	Ex-e terminal box connectable to RedMax actuators with 2 cable, for modulating or 3-pos operating with feedback signal + 2 cable for external aux. switches
RedBox-BF	Ex-e terminal box connectable to RedMax actuators with 1 cable, for all RedMaxBF
RedBox-BF/SW	Ex-e terminal box connectable to RedMax actuators with 1 cable, for all RedMaxBF + 2 cable for external aux. switches type RedSwitch
МКК-М	Mounting bracket forBox-terminal boxes for direct coupling toMax actuators size M
HV-MU	Manual override, connectable to actuators size M
AR-16-xx	Squared reduction part from 16 x 16 mm to shafts with 14 mm (yype AR-16-14), 12 mm (type AR-16-12)
ExPro-TT	Safety temperature trigger for fire dampers, switching at 71°/72°C, with 1 m cable, suitable only for ExMax-/RedMaxBF actuators!
EXC-DS1/VA	Safety temperature sensor for duct mounting, potential free contact, switching at 70°C160°C (10°C steps)
DWB-M	Angle rotation limiter for mounting on actuator size M
Retrofit-Kit-M	Mechanical adaptation for mounting on Max actuators size M, required to replace a previous type EXT30F3, EXT50F3 or EXT50
ADM	Different adaptations for different valves available. Please don't hesitate to ask for technical solution.

EXPRO-TT SAFETY TEMPERATURE TRIGGER

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX ACTUATORS

ZONES 1, 2 (gas) & 21, 22 (dust)

The thermoelectric safety trigger ExPro-TT-... activates the motorized fire damper into its safety position by spring return operation of an ExMax-...-BF or RedMax-...-BF actuator.

Function:

Two temperature fuses Tf1 and Tf2 are part of the trigger. In case that the ambient temperature outside the duct is more than +72 °C the temperature fuse Tf1 triggers. If the temperature inside the duct is more than +71 °C the temperature fuse Tf2 triggers. If Tf1 or Tf2 is switching off the power, the circuit to the actuator is irreversibly cut. The spring return of the actuator moves the damper into its safety position.

Performance control:

A performance control for safety operation of the damper is possible with push button of the trigger. The function of the temperature fuses Tf1, Tf2 can be simulated in this way.

Electrical wiring:

The temperature trigger must be connected directly to the actuator. Remove the plastic cover and put the plug in the socket and screw tight.

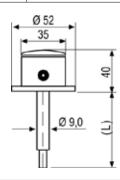
Short circuit monitoring:

The ExPro-TT-... is continuously monitored by the actuator. If a short circuit is detected in the wiring the actuator travels back to its safety position.

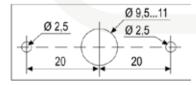


ExPro-TT CONNECTABLE TO ACTUATORS ExMaxBF and RedMaxBF					
Туре:	Function:	Length (L):	Temperature fuse duct / outside duct:	Test button:	Item No.:
ExPro-TT-72	Safety temperature trigger	65 mm	1 temp. fuse switching at +71 °C / +72 °C	1 test button	8A1301
ExPro-TT-72-L90	Safety temperature trigger	90 mm	1 temp. fuse switching at +71 °C / +72 °C	1 test button	8A1302

TECHNICAL SPECIFICATIONS				
Marking: II 2G Ex ia IIC T6 Gb II 2D Ex tb IIIC T80°C Db				
Certificate:	EU-Type Examination Certificate			
Supply:	Only byMaxBF actuators			
Connection:	~ 1 m cable			
Cable:	2 × 0,5 mm², −40+220 °C, halogen-free Inductance ≈ 0,6 mH/km, capacitance ≈ 30 nF/km			
Cable gland:	M12 × 1,5 mm Ex-e, brass nickel-plated Ø 46 mm			
Temperature fuse:	1 × duct, 1 × outside duct (not changeable)			
Response temperatures:	Tf1 room ambient temperature at +72 °C Tf2 duct temperature at +71 °C			
Ambient temperature:	Ta –40+72 °C, working temperature Tb –40+55 °C			
Storage temperature:	−40 to +55 °C			
Humidity protection:	< 95 % rH, non condensing			
Weight:	200 g			
Materials:	Thermowell brass plated, housing № 1.4581 / UNS-J92900 / similar AISI 316Nb, cover brass plated, seal cover FPM			
Maintenance:	Maintenance free, a yearly function control is recommended			
Mounting:	Direct mounting to the duct or damper with tapping screws. Notice: Position of the sensor of the safety temperature trigger must guarantee free air flow.			

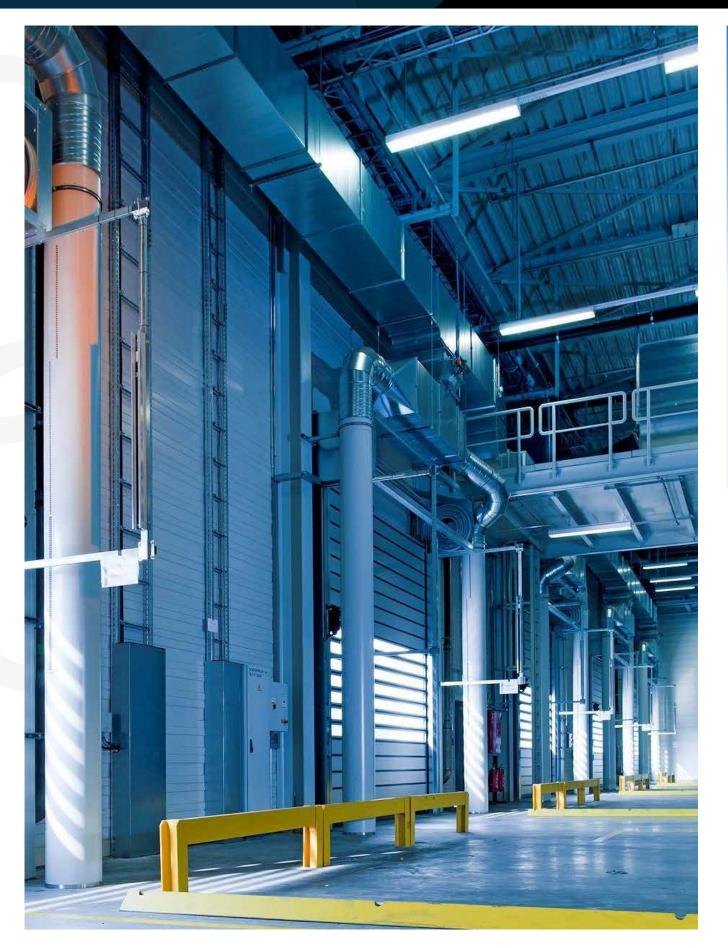


Drill template



CONTACT - (+34) 943 530 095 | inpratex@inpratex.com





INSTRUMENTATION





9 - INSTRUMENTATION

Inpratex supplies explosion-proof equipment for heating, ventilation and air conditioning for industrial and off-shore applications.

Instrumentation equipment designed to provide accurate and reliable operation over thousands of hours, even under adverse conditions.

They are used in many processes and applications, such as valve and damper control, gas turbine control, in printing machines, spray booths, engines, fuel management...

9.1 - TEMPERATURE, HUMIDITY AND PRESSURE3649.2 - DETECTION AND MEASUREMENT394

TEMPERATURE, HUMDITA AND PRESSURE

Q

EXCOS-D TEMPERATURE / HUMIDITY TRANSMITTER

Zones 1, 2, 21, 22

ATEX INSTRUMENTATION

EU-Type Examination Certificate

ZONES 1, 2 (gas) & 21, 22 (dust)

The ExCos-D... transmitter generation with directly coupled ExPro-C... sensors are a revolution for measuring temperature and/or humidity in HVAC systems, in chemical, pharmaceutical, industrial and offshore/onshore plants, for use in hazardous areas zone 1, 2 (gas) and zone 21, 22 (dust).

Highest protection class (ATEX) and IP66 protection, small dimensions, universal functions and technical data guarantee safe operation even under difficult environmental conditions.

All sensors are programmable on site without any additional tools. The measuring ranges are scalable within the maximum ranges. The analogue output signal is either 0...10 VDC or (0)4...20 mA and can be selected on site.

The integrated display (can be switched off as needed) is for parametrisation and an actual value indication at working mode.

- No addional Ex-i module required
- Integrated Ex-e terminal box
- Power supply 24 VAC/DC
- Scalable analogue output, selectable 0...10 V / (0)4...20 mA
- Display with backlight, can be switched off
- Password locking



	ExCos-D TEMPERATURE/HUMIDITY MODULI	E FOR ZONE 1, 2, 21,	22	
Туре:	Technical specifications:	Module:	ExPro sensor:	Item No.:
ExCos-D	Module to connect 1 ExPro-C sensor for temperature and/or humidity	Zone 1, 2, 21, 22	Zone 1, 2, 21, 22	9A0501

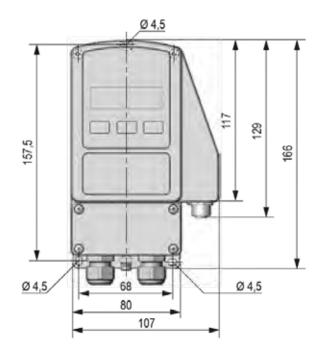
	SENSORS FOR Ex	Cos-D AND RedCos-D TRA	NSMITTER	
Туре:	Function:	Range:	Sensor length:	Main use:
ExPro-CT - 50	Temperature sensor	-40 to +80 °C	50 mm	Room/Duct
ExPro-CT -100	Temperature sensor	-40 to +125 °C	100 mm	Duct
ExPro-CT -150	Temperature sensor	-40 to +125 °C	150 mm	Duct
ExPro-CT -200	Temperature sensor	-40 to +125 °C	200 mm	Duct
ExPro-CF - 50	Humidity sensor	0100%rF	50 mm	Room/Duct
ExPro-CF -100	Humidity sensor	0100%rF	100 mm	Duct
ExPro-CF -150	Humidity sensor	0100%rF	150 mm	Duct
ExPro-CF -200	Humidity sensor	0100%rF	200 mm	Duct
ExPro-CTF - 50	Combination temperature/humidity	-40 to +80 °C, 0100%rH	50 mm	Room/Duct
ExPro-CTF -100	Combination temperature/humidity	-40 to +125 °C, 0100%rH	100 mm	Duct
ExPro-CTF -150	Combination temperature/humidity	-40 to +125 °C, 0100%rH	150 mm	Duct
ExPro-CTF -200	Combination temperature/humidity	-40 to +125 °C, 0100%rH	200 mm	Duct

	ACCESSORIES AND SPECIAL DESIGNS		
Туре:	Technical specifications:		
Ex/RedCos-D-A	Version with two additional intrinsically safe circuit (0)420 mA outputs to connect external actual value indicator in Ex areas		
EXC-RIA-16	Intrinsic safe actual value LCD indicator, for use in zone 1,2,21,22, connectable to ExCos-D-A or RedCos-D-A transmitter		
NOC-RIA-16	Actual value LCD indicator, for use in safe area, connectable to InCos-D-A transmitter		
MKR-VA/AL	Mounting bracket for installation on round air-ducts (diameter up to 600 mm)		
VL3	Sensor extension cable 3 m		

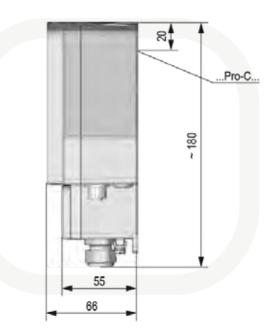
Zones 1, 2, 21, 22

	TECHNICAL SPECIFICATIONS
Marking:	(I) 2(1)G Ex e ma [ia Ga] IIC T6T4 Gb (I) 2(1)D Ex tb [ia Da] IIIC T80°CT130°C Db IP66
Certificate:	EU-Type Examination Certificate
Supply voltage / frequency:	24 VAC/DC ± 20% (19,228,8 VAC/DC), 50/60 Hz
Current power consumption:	150 mA, ~ 4 W, internal fuse 500 mAT, without bracket, not removable
Galvanic isolation:	Supply for analogue in- and outputs min. 1,5 kV, supply for relay output min. 1,5 kV
Electrical connection:	Terminals 0,142,5 mm ² at integrated Ex-e terminal box, stripping length 9 mm, torque 0,40,5 Nm, equipotential bonding 4 mm ²
Display / Control elements:	2 × 16 digits, dot-matrix display, backlit, for configuration, user guidance, parameter and actual value indication / 3 bu for configuration
Housing:	Aluminium die-cast housing, coated. / T6 (T80 °C) a −20+50 °C
Ambient Temperature - Humidity:	–20+50 °C, storage temperature –35+70 °C / 095 % rH, non condensing
Sensor connection:	For ExPro-C sensor only! Via plug and socket connection at front side (for room mounting) or at back side (for duct mounting). (for duct mounting). Attention: Only 1 ExPro-C sensor per transmitter can be connected!
Measuring ranges adjustable:	Measuring ranges are scalable within and limited by the maximum sensor measuring range
Response time of sensor:	T90 / ~ 1 s
Start delay:	5 s
Stability:	Long term stability < 0,2 %/year, temperature influence < 0,02 %/K, supply voltage influence < 0,01 %
Output:	Voltage U [V] or current I [mA] selectable via menu on site (with combi sensors not adjustable separately), protected against short circuit and external voltage up to 24 V, protected against polarity reversal
Voltage output U:	010 V adjustable, invertible, burden > 1 kΩ, influence < 0,05 %/100 Ω + accuracy ofPro-C sensor
Current output I:	020 mA adjustable, invertible, burden < 500 Ω, influence < 0,1 %/100 Ω, open circuit voltage < 24 V + accuracy ofPu sensor
Output in alarm mode:	Increasing or decreasing output signal, selectable on site, down to 0 VDC/0 mA or up to 10 VDC/20 mA
Scope of delivery:	Transmitter, 3 self-tapping screws 4,2 × 13 mm resp. in stainless steel (withCT andVA versions)
Parameter at delivery:	Output 420 mA, output in alarm mode decreasing to 0 V/0 mA
Dimensions:	180 × 107 × 66 mm

 $2\times M16\times 1,5$ mm, Ex-e approved, for cable diameter ~ Ø 5...9 mm



~ 950 g



Weight:

Cable entries:

REDCOS-D TEMPERATURE / HUMIDITY TRANSMITTER

Zones 2, 22

ATEX INSTRUMENTATION

Certificado de examen de tipo

ZONES 2 (gas) & 22 (dust)

The RedCos-D... transmitter generation with directly coupled ExPro-C... sensors are a revolution for measuring temperature and/or humidity in HVAC systems, in chemical, pharmaceutical, industrial and offshore/onshore plants, for use in hazardous areas zone 2 (gas) and zone 22 (dust).

Highest protection class (ATEX) and IP66 protection, small dimensions, universal functions and technical data guarantee safe operation even under difficult environmental conditions.

All sensors are programmable on site without any additional tools. The measuring ranges are scalable within the maximum ranges. The analogue output signal is either 0...10 VDC or (0)4...20 mA and can be selected on site.

The integrated display (can be switched off as needed) is for parametrisation and an actual value indication at working mode.

- No addional Ex-i module required
- Integrated Ex-e terminal box
- Power supply 24 VAC/DC
- Scalable analogue output, selectable 0...10 V / (0)4...20 mA
- Display with backlight, can be switched off
- Password locking



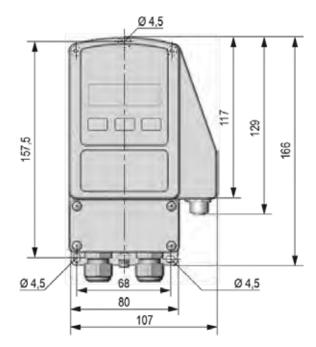
	RedCos-D TEMPERATURE/HUMIDITY MOD	OULE FOR ZONE 2, 22	2	
Туре:	Technical specifications:	Module:	ExPro sensor:	Item No.:
RedCos-D	Module to connect 1 ExPro-C sensor for temperature and/or humidity	Zone 2, 22	Zone 1, 2, 21, 22	9A0601

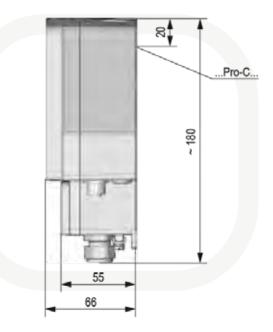
	SENSORS FOR Ex	Cos-D AND RedCos-D TRA	NSMITTER	
Туре:	Function:	Range:	Sensor length:	Main use:
ExPro-CT - 50	Temperature sensor	-40 to +80 °C	50 mm	Room/Duct
ExPro-CT -100	Temperature sensor	-40 to +125 °C	100 mm	Duct
ExPro-CT -150	Temperature sensor	-40 to +125 °C	150 mm	Duct
ExPro-CT -200	Temperature sensor	-40 to +125 °C	200 mm	Duct
ExPro-CF - 50	Humidity sensor	0100%rF	50 mm	Room/Duct
ExPro-CF -100	Humidity sensor	0100%rF	100 mm	Duct
ExPro-CF -150	Humidity sensor	0100%rF	150 mm	Duct
ExPro-CF -200	Humidity sensor	0100%rF	200 mm	Duct
ExPro-CTF - 50	Combination temperature/humidity	-40 to +80 °C, 0100%rH	50 mm	Room/Duct
ExPro-CTF -100	Combination temperature/humidity	-40 to +125 °C, 0100%rH	100 mm	Duct
ExPro-CTF -150	Combination temperature/humidity	-40 to +125 °C, 0100%rH	150 mm	Duct
ExPro-CTF -200	Combination temperature/humidity	-40 to +125 °C, 0100%rH	200 mm	Duct

	ACCESSORIES AND SPECIAL DESIGNS		
Туре:	Technical specifications:		
Ex/RedCos-D-A	Version with two additional intrinsically safe circuit (0)420 mA outputs to connect external actual value indicator in Ex areas		
EXC-RIA-16	Intrinsic safe actual value LCD indicator, for use in zone 1,2,21,22, connectable to ExCos-D-A or RedCos-D-A transmitter		
NOC-RIA-16	Actual value LCD indicator, for use in safe area, connectable to InCos-D-A transmitter		
MKR-VA/AL	Mounting bracket for installation on round air-ducts (diameter up to 600 mm)		
VL3	Sensor extension cable 3 m		

Zones 2, 22

	TECHNICAL SPECIFICATIONS
Marking:	(x) II 3(1)G Ex nC [ia Ga] IIC T6T4 Gc II 3(1)D Ex tc [ia Da] IIIC T80°CT130°C Dc IP66
Certificate:	EU-Type Examination Certificate
Supply voltage / frequency:	24 VAC/DC ± 20% (19,228,8 VAC/DC), 50/60 Hz
Current power consumption:	150 mA, ~ 4 W, internal fuse 500 mAT, without bracket, not removable
Galvanic isolation:	Supply for analogue in- and outputs min. 1,5 kV, supply for relay output min. 1,5 kV
Electrical connection:	Terminals 0,142,5 mm ² at integrated Ex-e terminal box, stripping length 9 mm, torque 0,40,5 Nm, equipotential bonding 4 mm ²
Display / Control elements:	2 × 16 digits, dot-matrix display, backlit, for configuration, user guidance, parameter and actual value indication / 3 buttons for configuration
Housing:	Aluminium die-cast housing, coated. / T6 (T80 °C) a −20+50 °C
Ambient Temperature - Humidity:	−20+50 °C, storage temperature −35+70 °C / 095 % rH, non condensing
Sensor connection:	For ExPro-C sensor only! Via plug and socket connection at front side (for room mounting) or at back side (for duct mounting). Attention: Only 1 ExPro-C sensor per transmitter can be connected!
Measuring ranges adjustable:	Measuring ranges are scalable within and limited by the maximum sensor measuring range
Response time of sensor:	T90/~1s
Start delay:	5s
Stability:	Long term stability < 0,2 %/year, temperature influence < 0,02 %/K, supply voltage influence < 0,01 %
Output:	Voltage U [V] or current I [mA] selectable via menu on site (with combi sensors not adjustable separately), protected against short circuit and external voltage up to 24 V, protected against polarity reversal
Voltage output U:	010 V adjustable, invertible, burden > 1 k Ω , influence < 0,05 %/100 Ω + accuracy ofPro-C sensor
Current output I:	020 mA adjustable, invertible, burden < 500 Ω, influence < 0,1 %/100 Ω, open circuit voltage < 24 V + accuracy ofPro-C sensor
Output in alarm mode:	Increasing or decreasing output signal, selectable on site, down to 0 VDC/0 mA or up to 10 VDC/20 mA
Scope of delivery:	Transmitter, 3 self-tapping screws 4,2 × 13 mm resp. in stainless steel (withCT andVA versions)
Parameter at delivery:	Output 420 mA, output in alarm mode decreasing to 0 V/0 mA
Dimensions:	180 × 107 × 66 mm
Weight:	~ 950 g
Cable entries:	2 × M16 × 1,5 mm, Ex-e approved, for cable diameter ~ Ø 59 mm





INSTRUMENTATION 🐑 😉

EXBIN-D THERMOSTATS / HYGROSTATS

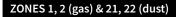
Zones 1, 2, 21, 22

ATEX INSTRUMENTATION

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The ExBin-D... transmitter generation with directly coupled ExPro-B... sensors is a revolution for measuring temperature and/or humidity in HVAC systems, in chemical, pharmaceutical, industrial and offshore/onshore plants, for use in hazardous areas zone 1, 2 (gas) and zone 21, 22 (dust).

Highest protection class (ATEX) and IP66 protection, small dimensions, universal functions and technical data guarantee safe operation even under difficult environmental conditions.

All sensors are programmable on site without any additional tools. The switching points are scalable within the maximum ranges. The integrated display (can be switched off as needed) is for parametrisation and an actual value indication at working mode.

- No addional Ex-i module required
- Integrated Ex-e terminal box
- Power supply 24 VAC/DC
- Scalable, potential free switching contact
- Display with backlight, can be switched off
- Password locking





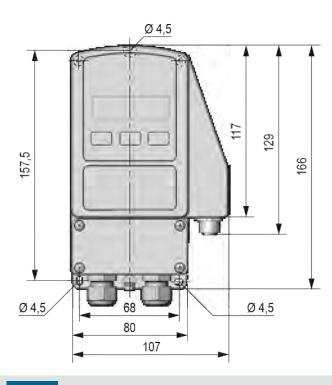
	ExBin-D THERMOSTATS AND/OR HYGROSTATS FOR 2	ZONE 1, 2, 21, 22		
Туре:	Technical specifications:	Module:	Sensor ExPro-B:	Item No.:
ExBin-D	Module for connection of one ExPro-B sensor as thermostat and/or hygrostat, 1-stage	Zone 1, 2, 21, 22	Zone 1, 2, 21, 22	9A1601
ExBin-D-2	Module for connection of one ExPro-B sensor as thermostat and/or hygrostat, 2-stage	Zonae1, 2, 21, 22	Zone 1, 2, 21, 22	9A1602

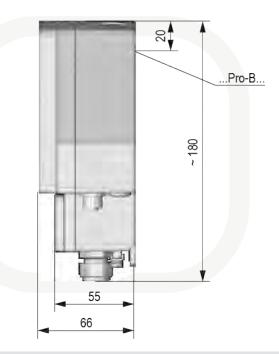
	ExPro-B SENSORS	FOR ExBin-D AND RedBin	-D MODULES	
Туре:	Function:	Range:	Sensor length:	Main use:
ExPro-BT - 50	Thermostat	-40 to +80 °C	50 mm	Room/Duct
ExPro-BT -100	Thermostat	-40 to +125 °C	100 mm	Duct
ExPro-BT -150	Thermostat	-40 to +125 °C	150 mm	Duct
ExPro-BT -200	Thermostat	-40 to +125 °C	200 mm	Duct
ExPro-BF - 50	Hygrostat	0100%rH	50 mm	Room/Duct
ExPro-BF -100	Hygrostat	0100%rH	100 mm	Duct
ExPro-BF -150	Hygrostat	0100%rH	150 mm	Duct
ExPro-BF -200	Hygrostat	0100%rH	200 mm	Duct
ExPro-BTF - 50	Combination Thermostat/Hygrostat	-40 to +80 °C, 0100%rH	50 mm	Room/Duct
ExPro-BTF -100	Combination Thermostat/Hygrostat	-40 to +125 °C, 0100%rH	100 mm	Duct
ExPro-BTF -150	Combination Thermostat/Hygrostat	-40 to +125 °C, 0100%rH	150 mm	Duct
ExPro-BTF -200	Combination Thermostat/Hygrostat	-40 to +125 °C, 0100%rH	200 mm	Duct

ACCESSORIES AND SPECIAL DESIGNS		
Туре:	Technical specifications:	
MFK	Mounting flange for duct-installation, for variable depth of inmersion in the air duct	
TH- VA	Probe made of stainless-steel V4A 1.4571, length 150 mm forPro-BT-200. Other lenghts on request	
Kit-FA-VA	Sinter filter cap for humidity sensor (only up to 90 %rH)	
MKR-VA/AL	Mounting bracket for installation on round air-ducts (diameter up to 600 mm)	

EXBIN-D THERMOSTATS / HYGROSTATS Zones 1, 2, 21, 22

	TECHNICAL SPECIFICATIONS
Marking:	😥 II 2(1)G Ex e mb [ia Ga] IIC T6T4 Gb
	(EX) II 2(1)D Ex tb [ia Da] IIIC T80°CT130°C Db IP66
Certificate:	EU-Type Examination Certificate
Supply voltage / frequency:	24 VAC/DC ± 20% (19,228,8 VAC/DC), 50/60 Hz
Current, power consumption:	150 mA, ~ 4 W, internal fuse 500 mAT, without bracket, not removable
Galvanic isolation:	Supply for relay output min. 1,5 kV
Electrical connection:	Terminals 0,142,5 mm ² at integrated Ex-e terminal box, stripping length 9 mm, torque 0,40,5 Nm, equipotential bonding 4 mm ²
Display / Control elements:	Matrix LCD, backlit, for configuration, user guidance, parameter and actual value indication. Status indicator via LEDs 3 buttons for configuration
Housing:	Aluminium die-cast housing, coated / T6 (T80 °C) at -20+50 °C
Ambient Temperature - Humidity:	–20+50 °C, storage temperature –35+70°C / 095 % rH, non condensing
Sensor connection:	For ExPro-B sensor only! Via plug and socket connection at front side (for room mounting) or at back side (for duct mounting). (for duct mounting). Attention: Only 1 ExPro-B sensor per transmitter can be connected!
Measuring range:	-40+125 °C / 0100 % rH, non condensed
Response time of sensor:	T90 / ~ 3 s
Relay output accuracy:	Temperature: ±0,1 °C resolution + accuracy ofPro-B sensor Humidity ±0,05 % resolution + accuracy ofPro-B sensor
Setting range hysteresis:	+0,5+20,0 °C (factory setting +1,0 °C) / 0,520,0 % rH (factory setting 5,0 % rH)
Start delay:	5s
Stability:	Long term stability < 0,2 %/year, temperature influence < 0,02 %/K, supply voltage influence < 0,01 %
Output:	Potential free switching contact – breaking/making contact, adjustable per menu max. rating load: 0,5 A (30 VAC/DC) – 0,1 A (250 VAC) – 0,1 A (220 VDC). Power 40 W, 10 W per channel min. rating load: 10 mW / 0,1 V / 1 mA
Additional relay output (Type2):	– as above
Duration of life:	Mechanical: 10 × 10 ⁶ Electrical (rated load): 100 × 10 ³
Scope of delivery:	Transmitter, 3 self-tapping screws 4,2 × 13 mm resp. in stainless steel (withCT andVA versions)
Dimensions:	180 × 107 × 66 mm
Weight:	~ 950 g
Cable entries:	2 x M16x1,5 mm, Ex-e approved, for cable diameter ~ Ø 59 mm





REDBIN-D THERMOSTATS / HYGROSTATS

Zones 2, 22

ATEX INSTRUMENTATION



ZONES 2 (gas) & 22 (dust)

The RedBin-D... transmitter generation with directly coupled ExPro-B... sensors is a revolution for measuring temperature and/or humidity in HVAC systems, in chemical, pharmaceutical, industrial and offshore/onshore plants, for use in hazardous areas zone 2 (gas) and zone 22 (dust).

Highest protection class (ATEX) and IP66 protection, small dimensions, universal functions and technical data guarantee safe operation even under difficult environmental conditions.

All sensors are programmable on site without any additional tools. The switching points are scalable within the maximum ranges. The integrated display (can be switched off as needed) is for parametrisation and an actual value indication at working mode.

- No addional Ex-i module required
- Integrated Ex-e terminal box
- Power supply 24 VAC/DC
- Scalable, potential free switching contact
- Display with backlight, can be switched off
- Password locking





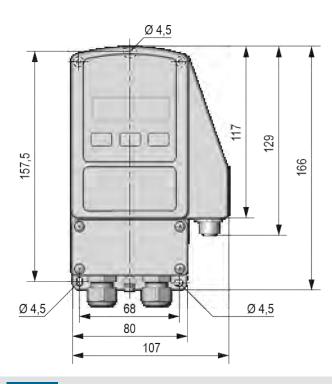
RedBin-D THERMOSTATS AND/OR HYGROSTATS FOR ZONE 2, 22						
Туре:	Technical specifications: Module: Sensor ExPro-B: Item No.:					
RedBin-D	Module for connection of one ExPro-B sensor as thermostat and/or hygrostat, 1-stage	Zone 2, 22	Zone 1, 2, 21, 22	9A1701		
RedBin-D-2	Module for connection of one ExPro-B sensor as thermostat and/or hygrostat, 2-stage	Zone 2, 22	Zone 1, 2, 21, 22	9A1702		

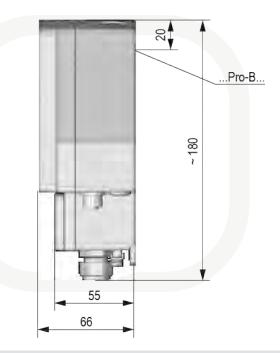
	ExPro-B SENSORS FOR ExBin-D AND RedBin-D MODULES						
Туре:	Function:	Range:	Sensor length:	Main use:			
ExPro-BT - 50	Thermostat	-40 to +80 °C	50 mm	Room/Duct			
ExPro-BT -100	Thermostat	-40 to +125 °C	100 mm	Duct			
ExPro-BT -150	Thermostat	-40 to +125 °C	150 mm	Duct			
ExPro-BT -200	Thermostat	-40 to +125 °C	200 mm	Duct			
ExPro-BF - 50	Hygrostat	0100%rH	50 mm	Room/Duct			
ExPro-BF -100	Hygrostat	0100%rH	100 mm	Duct			
ExPro-BF -150	Hygrostat	0100%rH	150 mm	Duct			
ExPro-BF -200	Hygrostat	0100%rH	200 mm	Duct			
ExPro-BTF - 50	Combination Thermostat/Hygrostat	-40 to +80 °C, 0100%rH	50 mm	Room/Duct			
ExPro-BTF -100	Combination Thermostat/Hygrostat	-40 to +125 °C, 0100%rH	100 mm	Duct			
ExPro-BTF -150	Combination Thermostat/Hygrostat	-40 to +125 °C, 0100%rH	150 mm	Duct			
ExPro-BTF -200	Combination Thermostat/Hygrostat	-40 to +125 °C, 0100%rH	200 mm	Duct			

ACCESSORIES AND SPECIAL DESIGNS				
Туре:	Technical specifications:			
MFK	Mounting flange for duct-installation, for variable depth of inmersion in the air duct			
TH- VA	TH- VA Probe made of stainless-steel V4A 1.4571, length 150 mm forPro-BT-200. Other lenghts on request			
Kit-FA-VA	Sinter filter cap for humidity sensor (only up to 90 %rH)			
MKR-VA/AL	Mounting bracket for installation on round air-ducts (diameter up to 600 mm)			

REDBIN-D THERMOSTATS / HYGROSTATS Zones 2, 22

	TECHNICAL SPECIFICATIONS				
Marking:	😥 II 3(1)G Ex nC [ia Ga] IIC T6T4 Gc				
	😢 II 3(1)D Ex tc [ia Da] IIIC T80°CT130°C Dc IP66				
Certificate:	EU-Type Examination Certificate				
Supply voltage / frequency:	24 VAC/DC ± 20% (19,228,8 VAC/DC), 50/60 Hz				
Current, power consumption:	150 mA, ~ 4 W, internal fuse 500 mAT, without bracket, not removable				
Galvanic isolation:	Supply for relay output min. 1,5 kV				
Electrical connection:	Terminals 0,142,5 mm² at integrated Ex-e terminal box, stripping length 9 mm, torque 0,40,5 Nm, equipotential bonding 4 mm²				
Display / Control elements:	Matrix LCD, backlit, for configuration, user guidance, parameter and actual value indication. Status indicator via LEDs 3 buttons for configuration				
Housing:	Aluminium die-cast housing, coated / T6 (T80 °C) at –20+50 °C				
Ambient Temperature - Humidity:	–20+50 °C, storage temperature –35+70°C / 095 % rH, non condensing				
Sensor connection:	For ExPro-B sensor only! Via plug and socket connection at front side (for room mounting) or at back side (for duct mounting). (for duct mounting). Attention: Only 1 ExPro-B sensor per transmitter can be connected!				
Measuring range: -40+125 °C / 0100 % rH, non condensed					
Response time of sensor:	T90 / ~ 3 s				
Relay output accuracy:	Temperature: ±0,1 °C resolution + accuracy ofPro-B sensor Humidity ±0,05 % resolution + accuracy ofPro-B sensor				
Setting range hysteresis:	+0,5+20,0 °C (factory setting +1,0 °C) / 0,520,0 % rH (factory setting 5,0 % rH)				
Start delay:	5s				
Stability:	Long term stability < 0,2 %/year, temperature influence < 0,02 %/K, supply voltage influence < 0,01 %				
Output:	Potential free switching contact – breaking/making contact, adjustable per menu max. rating load: 0,5 A (30 VAC/DC) – 0,1 A (250 VAC) – 0,1 A (220 VDC). Power 40 W, 10 W per channel min. rating load: 10 mW / 0,1 V / 1 mA				
Additional relay output (Type2):	– as above				
Duration of life:	Mechanical: 10 × 10 ⁶ Electrical (rated load): 100 × 10 ³				
Scope of delivery:	Transmitter, 3 self-tapping screws 4,2 × 13 mm resp. in stainless steel (withCT andVA versions)				
Dimensions:	180 × 107 × 66 mm				
Weight:	~ 950 g				
Cable entries:	2 x M16x1,5 mm, Ex-e approved, for cable diameter ~ Ø 59 mm				





EXBIN-FR FROST PROTECTION THERMOSTATS

Zones 1, 2, 21, 22

ATEX INSTRUMENTATION



ZONES 1, 2 (gas) & 21, 22 (dust)

The ExBin-FR... frost protection thermostat is a revolution in HVAC systems, in chemical, pharmaceutical, industrial and offshore/onshore plants, for use in hazardous areas zone 1, 2 (gas) and zone 21, 22 (dust).

Highest protection class (ATEX) and IP66 protection, small dimensions, universal functions and technical data guarantee safe operation even under difficult environmental conditions.

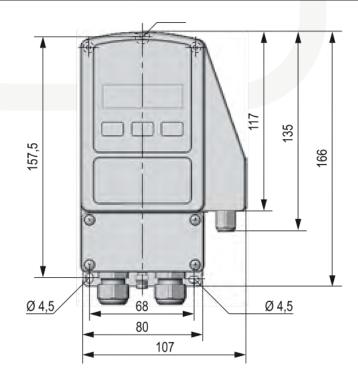
All frost protection thermostats are programmable on site without any additional tools. The switching point is scalable within the maximum ranges.

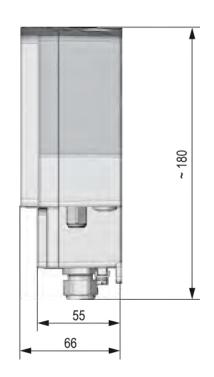
- No addional Ex-i module required
- Integrated Ex-e terminal box
- Power supply 24 VAC/DC
- LED switching state indication
- Compact design and small dimension
- IP66 protection



ExBin-FR FROST PROTECTION THERMOSTATS FOR ZONE 1, 2, 21, 22						
Туре:	Type: Capilary: Temperature range: Setting range: Item No.:					
ExBin-FR-3	3 m	-10 +15 °C	1-stage adjustable switch-point in temperature range	9A2501		
ExBin-FR-6	ExBin-FR-6 6 m -10 +15 °C 1-stage adjustable switch-point in temperature range 9A2502					

ACCESSORIES AND SPECIAL DESIGNS				
Туре:	Technical specifications:			
Kit 1.3	Capillary duct, assembly cramp and 4 assembly brackets for frost protection thermostatBin-FR-3			
Kit 1.6	Capillary duct, assembly cramp and 4 assembly brackets for frost protection thermostatBin-FR-6			
MKR-VA/AL	Mounting bracket for installation on round air-ducts (diameter up to 600 mm)			





EXBIN-FR FROST PROTECTION THERMOSTATS

Zones 1, 2, 21, 22

	TECHNICAL SPECIFICATIONS
Marking:	II 2(1)G Ex e mb [ia Ga] IIC T6 Gb II 2(1)D Ex tb [ia Da] IIIC T80°C Db IP66
Certificate:	EU-Type Examination Certificate
Supply voltage / frequency:	24 VAC/DC ± 20% (19,228,8 VAC/DC), 50/60 Hz
Current, power consumption:	150 mA, ~ 4 W, internal fuse 500 mAT, not removable
Galvanic isolation:	Supply for relay output min. 1,5 kV
Electrical connection:	Terminals 0,142,5 mm ² at integrated Ex-e terminal box, stripping length 9 mm, torque 0,40,5 Nm, equipotential bonding 4 mm ²
Control elements:	Rotary control for setpoint adjustment and fixing screw
Measuring range:	Setpoint adjustable -10 °C+15 °C
Status indication:	Via LEDs – GREEN: ambient temperature is above setpoint (normal), RED: ambient temperature is below setpoin
Housing material:	Aluminium die-cast housing, coated.
Ambient temperature:	–20+50 °C, capillary max. +80 °C, storage temperature –35+70 °C
Temperature class:	T6 (T80 °C) bei −20+50 °C
Ambient humidity:	095 % rH, non condensin
Sensor circuit:	Internal intrinsically safe (IS) circuit
Capillary:	Lenght:FR-3 - 3 m ±15 cm FR-6 - 6 m ±20 cm min. active length ~ 40 cm min. bending radius 2 cm
Hysteresis:	~ 6 K, accurancy of setpoints ± 3 K
Start delay:	5 s
Output:	Potential free switching contact – breaking contact max. rating load - 0,5 A (30 VAC/ DC) – 0,1 A (250 VAC) – 0,1 A (220 VDC) min. rating load - 10 mW / 0,1 V / 1 mA
Duration of life:	Mechanical 10 × 10 ⁶ Electrical (rated load) 100 × 10 ³
Scope of delivery:	Frost protection thermostat, self-tapping screws 4,2 x 13 mm
Dimensions:	180 × 107 × 66 mm (without connectors)
Weight:	~ 950 g
Cable entries:	2 x M16x1,5 mm, Ex-e approved, for cable diameter ~ Ø 59 mm



REDBIN-FR FROST PROTECTION THERMOSTATS

Zones 2, 22

ATEX INSTRUMENTATION



ZONES 1, 2 (gas) & 21, 22 (dust)

The RedBin-FR... frost protection thermostat is a revolution in HVAC systems, in chemical, pharmaceutical, industrial and offshore/onshore plants, for use in hazardous areas zone 2 (gas) and zone 22 (dust).

Highest protection class (ATEX) and IP66 protection, small dimensions, universal functions and technical data guarantee safe operation even under difficult environmental conditions.

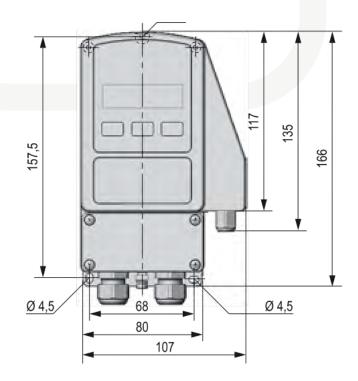
All frost protection thermostats are programmable on site without any additional tools. The switching point is scalable within the maximum ranges.

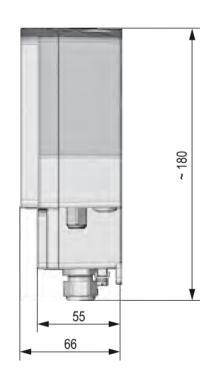
- No addional Ex-i module required
- Integrated Ex-e terminal box
- Power supply 24 VAC/DC
- LED switching state indication
- Compact design and small dimension
- IP66 protection



RedBin-FR FROST PROTECTION THERMOSTATS FOR ZONE 2, 22						
Туре:	Type: Capilary: Temperature range: Setting range: Item No.:					
RedBin-FR-3	3 m	-10 +15 °C	1-stage adjustable switch-point in temperature range	9A2601		
RedBin-FR-6 6 m -10 +15 °C 1-stage adjustable switch-point in temperature range 9A2602						

ACCESSORIES AND SPECIAL DESIGNS				
Туре:	Technical specifications:			
Kit 1.3	Capillary duct, assembly cramp and 4 assembly brackets for frost protection thermostatBin-FR-3			
Kit 1.6	Capillary duct, assembly cramp and 4 assembly brackets for frost protection thermostatBin-FR-6			
MKR-VA/AL	Mounting bracket for installation on round air-ducts (diameter up to 600 mm)			





REDBIN-FR FROST PROTECTION THERMOSTATS

	TECHNICAL SPECIFICATIONS			
Marking:	(I) II 3(1)G Ex nC [ia Ga] IIC T6 Gc II 3(1)D Ex tc [ia Da] IIIC T80°C Dc IP66			
Certificate:	EU-Type Examination Certificate			
Supply voltage / frequency:	24 VAC/DC ± 20% (19,228,8 VAC/DC), 50/60 Hz			
Current, power consumption:	150 mA, ~ 4 W, internal fuse 500 mAT, not removable			
Galvanic isolation:	Supply for relay output min. 1,5 kV			
Electrical connection:	Terminals 0,142,5 mm ² at integrated Ex-e terminal box, stripping length 9 mm, torque 0,40,5 Nm, equipotential bonding 4 mm ²			
Control elements:	Rotary control for setpoint adjustment and fixing screw			
Measuring range:	Setpoint adjustable –10 °C+15 °C			
Status indication:	Via LEDs - GREEN: ambient temperature is above setpoint (normal), RED: ambient temperature is below setpoin			
Housing material:	Aluminium die-cast housing, coated.			
Ambient temperature:	−20+50 °C, capillary max. +80 °C, storage temperature −35+70 °C			
Temperature class:	T6 (T80 °C) bei –20+50 °C			
Ambient humidity:	095 % rH, non condensin			
Sensor circuit:	Internal intrinsically safe (IS) circuit			
Capillary:	Lenght:FR-3 - 3 m ±15 cm FR-6 - 6 m ±20 cm min. active length ~ 40 cm min. bending radius 2 cm			
Hysteresis:	~ 6 K, accurancy of setpoints ± 3 K			
Start delay:	5 s			
Output:	Potential free switching contact – breaking contact max. rating load - 0,5 A (30 VAC/ DC) – 0,1 A (250 VAC) – 0,1 A (220 VDC) min. rating load - 10 mW / 0,1 V / 1 mA			
Duration of life:	Mechanical 10 × 10 ⁶ Electrical (rated load) 100 × 10 ³			
Scope of delivery:	Frost protection thermostat, self-tapping screws 4,2 x 13 mm			
Dimensions:	180 × 107 × 66 mm (without connectors)			
Weight:	~ 950 g			
Cable entries:	2 x M16x1,5 mm, Ex-e approved, for cable diameter ~ Ø 59 mm			



EXREG-D TEMPERATURE / HUMIDITY CONTROLLER

Zones 1, 2, 21, 22

9

(Ex)

INSTRUMENTATION

ATEX INSTRUMENTATION

ZONES 1, 2 (gas) & 21, 22 (dust)



Compact temperature or humidity controller for use in HVAC systems, in chemical, pharmaceutical, industrial and offshore/onshore plants in hazardous areas zone 1, 2 (gas) and zone 21, 22 (dust).

Delivery:

Electric temperature or humidity controller with integrated terminal box (ExReg.. with "Ex-e") and connection for 1 ExPro-C.. sensor, 3 tapping screws.

- No addional module in the panel required
- No intrinsically safe wiring required
- Meas. range -40...+125°C / 0...100%rH
- Power supply 24 VAC/DC
- Switch-on delay 3 seconds
- PID controller
- Programmable w/o additional tools
- Alarm with alarm delay function
- LCD backlight, can be switched off
- Aluminium housing protection IP66
- Integrated terminal box (ExReg.. with "Ex-e")
 Optional offshore / marine coated or stainless
- Optional off steel edition
- H x W x D = 180 x 107 x 66 mm



	ExReg-D TEMPERATURE / HUMIDITY CONTROLLER FOR ZONE 1, 2, 21, 22					
Туре:	Sensor:	Supply:	Meas. range:	Connection / Interface (analogue):	Item No.:	
ExReg-D-A	ExPro-C	24 VAC/DC	-40+125°C / 0100%rH	1 x actuator, 1 x set point, 1 x actual value, 1 x position actuator	9A2701	

SENSORS FORReg-D CONTROLLER						
Туре:	Function: Range: Sensor length:		Sensor length:	Main use:		
ExPro-CT - 50	Temperature sensor	-40 to +80 °C	50 mm	Room/Duct		
ExPro-CT -100	Temperature sensor	-40 to +125 °C	100 mm	Duct		
ExPro-CT -150	Temperature sensor	-40 to +125 °C	150 mm	Duct		
ExPro-CT -200	Temperature sensor	-40 to +125 °C	200 mm	Duct		
ExPro-CF - 50	Humidity sensor	0100%rF	50 mm	Room/Duct		
ExPro-CF -100	Humidity sensor	0100%rF	100 mm	Duct		
ExPro-CF -150	Humidity sensor	0100%rF	150 mm	Duct		
ExPro-CF -200	Humidity sensor	0100%rF	200 mm	Duct		

ACTUATORS FORREG-V300 CONTROLLER						
Туре:	Torque:	Running time 90°:	Spring return:	Control mode:	Feedback:	Item No.:
ExMax- 5.10-CY	5 Nm / 10 Nm	7,5/15/30/60/120 seg.	-	420 mA	010 V	9A1807
ExMax- 15.30-CY	15 Nm / 30 Nm	7,5/15/30/60/120 seg.	-	420 mA	010 V	9A1808
ExMax- 5.10-CYF	5 Nm / 10 Nm	7,5/15/30/60/120 seg.	~ 10 sg	420 mA	010 V	9A1809
ExMax-15- CFY	15 Nm	7,5/15/30/60/120 seg.	~ 10 sg	420 mA	010 V	9A1810

ACCESSORIES AND SPECIAL DESIGNS		
Туре:	Technical specifications:	
MKR-VA/AL	Mounting bracket for installation on round air-ducts (diameter up to 600 mm)	

Zones 1, 2, 21, 22

ATEX INSTRUMENTATION

ZONES 1, 2 (gas) & 21, 22 (dust)

Thermostat with liquid expansion probe suitable for the automatic control of ambient temperature in hazardous areas. Available either with external or internal temperature adjustment (type TA or type TAI respectively).



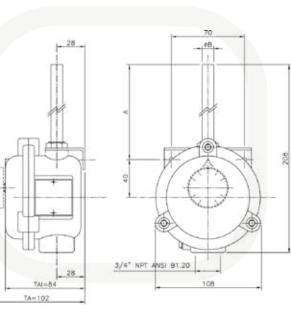
The internal adjustment helps to prevent unauthorized manipulations.
Bracket in tropicalized galvanized steel, sheath in tropicalized zinc plated brass.
Plate and external screws in Stainless Steel.



Temperature adjustment on TAI is allowed at open case only. This operation shall not be made with the thermostat powered and, in any case, far from hazardous atmosphere.

ITEM REFERENCES						
Designation:	T. Control Range (°C):	Max Bulb T. (°C):	Differential ∆T (°C):	A (mm):	ØB (mm):	Item No.:
TA 40 N (ext)	0°C to 40°C ±2°C	50°C	3°C ±1°C	112	13	9C0101
TA 40 LN	0°C to 40°C ±2°C	50°C	3°C ±1°C	242	13	9C0102
TAI 40 N (int)	0°C to 40°C ±2°C	50°C	3°C ±1°C	112	13	9C0103
TAI 40 LN	0°C to 40°C ±2°C	50°C	3°C ±1°C	242	13	9C0104
TA 90 N (ext)	0°C to 90°C ±3°C	120°C	4°C ±1°C	112	10	9C0105
TA 90 LN	0°C to 90°C ±3°C	120°C	4°C ±1°C	242	10	9C0106
TAI 90 N (int)	0°C to 90°C ±3°C	120°C	4°C ±1°C	112	10	9C0107
TAI 90 LN	0°C to 90°C ±3°C	120°C	4°C ±1°C	242	10	9C0108
TA 120 N (ext)	0°C to 120°C ±3°C	150°C	4°C ±1°C	112	10	9C0109
TA 120 LN	0°C to 120°C ±3°C	150°C	4°C ±1°C	242	10	9C0110
TAI 120 N (int)	0°C to 120°C ±3°C	150°C	4°C ±1°C	112	10	9C0111
TAI 120 LN	0°C to 120°C ±3°C	150°C	4°C ±1°C	242	10	9C0112

TECHNICAL	TECHNICAL SPECIFICATIONS			
Marking:	II 2G Ex d IIB+H2 T6-T5 Gb II 2D Ex tb IIIC T85°C-T100°C Db			
Certificate:	EU-Type Examination Certificate			
Housing:	Aluminum light alloy. External epoxy RAL 7000			
Operating temperature:	-20°C to +40°C (T6/T85°C) -20°C to +60°C (T5/T100°C)			
Operating conditions:	Indoor / Outdoor			
Ingress protection:	IP65			
Cable entries:	1x3/4" NPT (cable gland not included)			
Electrical contact capacity NC16(6) / A 250 VAC				



CONTROL THERMOSTATS TR SERIES

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX INSTRUMENTATION

ZONES 1, 2 (gas) & 21, 22 (dust)

Thermostat with liquid expansion probe recommended for the automatic control of liquids temperature and for industrial heating process in hazardous areas. Available either with external or internal temperature adjustment(type TR or type TRI respectively).



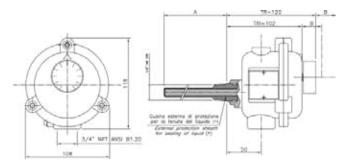
Temperature adjustment on TRI is allowed at open case only. This operation shall not be made with the thermostat powered and, in any case, far from hazardous atmosphere.



- Its design allows the rapid replacement of the control unit without having to empty the process fluids containers.
- The internal adjustment helps to prevent unauthorized manipulations.
- External sheath in AISI 316L Stainless Steel.
- Plate and external screws in Stainless Steel.

	ITEM REFERENCES						
Designation:	Temperature Control Range (°C):	Max Bulb Temperature (°C):	Differential ∆T (°C):	Sensor Ø:	A (mm):	B (mm):	Item No.:
TR 40 N (ext)	0°C to 40°C ±2°C	50°C	3°C ±1°C	16 mm	95	111	9C0201
TR 40 LN	0°C to 40°C ±2°C	50°C	3°C ±1°C	16 mm	225	111	9C0202
TRI 40 N (int)	0°C to 40°C ±2°C	50°C	3°C ±1°C	16 mm	95	111	9C0203
TRI 40 LN	0°C to 40°C ±2°C	50°C	3°C ±1°C	16 mm	225	111	9C0204
TR 90 N (ext)	0°C to 90°C ±3°C	120°C	4°C ±1°C	14 mm	95	111	9C0205
TR 90 LN	0°C to 90°C ±3°C	120°C	4°C ±1°C	14 mm	225	111	9C0206
TRI 90 N (int)	0°C to 90°C ±3°C	120°C	4°C ±1°C	14 mm	95	111	9C0207
TRI 90 LN	0°C to 90°C ±3°C	120°C	4°C ±1°C	14 mm	225	111	9C0208
TR 120 N (ext)	0°C to 120°C ±3°C	150°C	4°C ±1°C	14 mm	95	111	9C0209
TR 120 LN	0°C to 120°C ±3°C	150°C	4°C ±1°C	14 mm	225	111	9C0210
TRI 120 N (int)	0°C to 120°C ±3°C	150°C	4°C ±1°C	14 mm	95	111	9C0211
TRI 120 LN	0°C to 120°C ±3°C	150°C	4°C ±1°C	14 mm	225	111	9C0212

TECHNICAL SPECIFICATIONS			
Marking:	(1) 2G Ex d IIB+H2 T6-T5 Gb II 2D Ex tb IIIC T85°C-T100°C Db	Electrical contact capacity NC16(6) / A 250 VAC	
Certificate:	EU-Type Examination Certificate		
Housing:	Aluminum light alloy. External epoxy RAL 7000	· • • • •	
Operating temperature:	-20°C to +40°C (T6/T85°C) -20°C to +60°C (T5/T100°C)	· · · · · · · · · · · · · · · · · · ·	
Operating conditions:	Indoor / Outdoor		
Ingress protection:	IP65	× 100	
Cable entries:	1x3/4" NPT (cable gland not included)		



Zones 1, 2, 21, 22

ATEX INSTRUMENTATION

ZONES 1, 2 (gas) & 21, 22 (dust)

Thermostat with liquid expansion probe with manual reset and positive safety for capillary breakup, especially suitable for boilers, heating systems and in all applications where it is necessary not to exceed the maximum temperature set in hazardous areas.



- Its design allows the rapid replacement of the control unit without having to empty the process fluids containers.

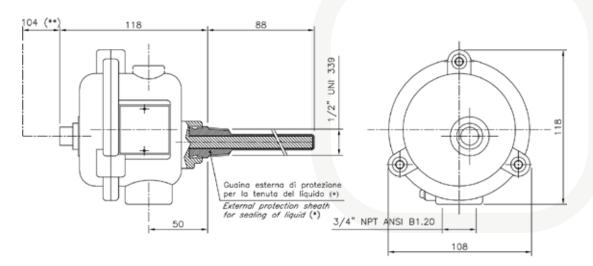
- External sheath in AISI 316L Stainlees Steel.
- Plate and external screws in Stainless Steel.



The temperature probe is protected by an internal explosionproof sheath as well as by an external watertight sheath which induces a greater thermal inertia of the thermostat that raises the temperature reading of the controlled fluid. It's advisable to carry out tests on the adjustments to minimize this effect.

		ITEM REFERENCES		
Designation:	Control Temperature (°C):	Max Bulb Temperature (°C):	Differential ∆T (°C):	Item No.:
TS 100	100°C (+0°C, -6°C)	125°C	15°C ±8°C	9C0301

TECHNICAL SPECIFICATIONS			
Marking:	U 2G Ex d IIB+H2 T6-T5 Gb II 2D Ex tb IIIC T85°C-T100°C Db	Electrical contact capacity NC16(6) / A 250 VAC	
Certificate:	EU-Type Examination Certificate		
Housing:	Aluminum light alloy. External epoxy RAL 7000	· آ. آ	
Operating temperature:	-20°C to +40°C (T6/T85°C) -20°C to +60°C (T5/T100°C)		
Operating conditions:	Indoor / Outdoor		
Ingress protection:	IP65	; a	
Cable entries:	1x3/4" NPT (cable gland not included)		



EXCOS-P DIFFERENTIAL PRESSURE TRANSMITTER

Zones 1, 2, 21, 22

ATEX INSTRUMENTATION

ZONES 1, 2 (gas) & 21, 22 (dust)

The ExCos-P-... pressure sensor generation from ±100 Pa to ±7.500 Pa (acc. to type) is a revolution for differential pressure measuring in HVAC systems, in chemical, pharmaceutical, industrial and offshore/onshore plants, for use in hazardous areas zone 1, 2 (gas) and zone 21, 22 (dust).

Highest protection class (ATEX) and IP66 protection, small dimensions, universal functions and technical data guarantee safe operation even under difficult environmental conditions. All sensors are programmable on site without any additional tools.



Pressure transmitter for HVAC systems, e.g. for differential pressure control.

- No additional module in the panel required
- 24 VAC/DC supply
- Outputs 0...10 V, (0)4...20 mA selectable
- Measurement range adjustable
- Actual value indicator (can be switched off)
- All parameters can be adjusted on site without additional tools and measurement devices



All sensors require a 24 VAC/ DC power supply. The electrical wiring must be realized via the integrated Ex-e terminal box acc. to ATEX. The terminals' type of protection is "Increased safety Ex-e".

ExCos-P DIFFERENTIAL PRESSURE TRANSMITTER FOR ZONE 1, 2, 21, 22				
Туре:	Max. range:	Overload protected:	Measurement range, min. 20% of max. range:	Item No.:
ExCos-P- 100	± 100 Pa	up to 25.000 Pa	± Measurement range free adjustable, min. range 20 Pa	9A1901
ExCos-P- 250	± 250 Pa	up to 25.000 Pa	± Measurement range free adjustable, min. range 50 Pa	9A1902
ExCos-P- 500	± 500 Pa	up to 50.000 Pa	± Measurement range free adjustable, min. range 100 Pa	9A1903
ExCos-P-1250	± 1.250 Pa	up to 50.000 Pa	\pm Measurement range free adjustable, min. range 250 Pa	9A1904
ExCos-P-2500	± 2.500 Pa	up to 50.000 Pa	± Measurement range free adjustable, min. range 500 Pa	9A1905
ExCos-P-5000	± 5.000 Pa	up to 75.000 Pa	± Measurement range free adjustable, min. range 1.000 Pa	9A1906
ExCos-P-7500	± 7.500 Pa	up to 120.000 Pa	± Measurement range free adjustable, min. range 1.500 Pa	9A1907

ACCESSORIES AND SPECIAL DESIGNS

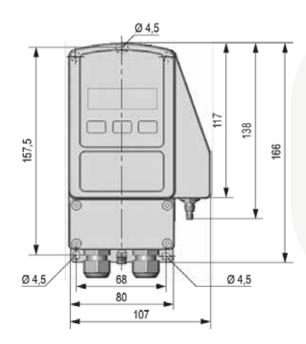
Туре:	Technical specifications:	
Ex/RedCos-PA Version with one additional intrinsically safe circuit (0)420 mA output to connect external actual value indicator in Ex areas		
InCos- PA	Version with one additional (0)420 mA output to connect external actual value indicator in safe area	
EXC-RIA-16 Intrinsic safe actual value LCD indicator, for use in zone 1,2,21,22, connectable to ExCos-PA or RedCos-PA transmitter		
NOC-RIA-16 LCD indicator, connectable to InCos-PA transmitter		
MKR-VA/AL Mounting bracket for installation on round air-ducts (diameter up to 600 mm)		
Kit 2 Includes 2 meter pressure hose (inner diameter 6 mm) and 2 plastic fittings		

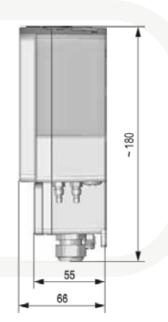
EXCOS-P DIFFERENTIAL PRESSURE TRANSMITTER

Zones 1, 2, 21, 22

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TECHNICAL SPECIFICATIONS			
Marking:	II 2(1)G Ex e ma [ia Ga] IIC T6T4 Gb II 2(1)D Ex tb [ia Da] IIIC T80°CT130°C Db IP66		
Certificate:	EU-Type Examination Certificate		
Supply voltage / frequency:	24 VAC/DC ± 20% (19,228,8 VAC/DC), 50/60 Hz		
Current power consumption:	150 mA, ~ 4 W, internal fuse 500 mAT, without bracket, not removable		
Galvanic isolation:	Supply for analogue in- and outputs min. 1,5 kV, supply for relay output min. 1,5 kV		
Electrical connection:	Terminals 0,142,5 mm ² at integrated Ex-e terminal box, stripping lenght 9 mm, torque 0,40,5 Nm, equipotential bonding 4 mm ²		
Display / Control elements:	2 x 16 digits, dot-matrix display, backlit, for configuration, user guidance, parameter and actual value indication / 3 buttons for configuration		
Sensor / Sensor circuit:	Piezo messure transmitter / Internal intrinsically safe (IS) circuit		
Housing:	Aluminium die-cast housing, coated / T6 (T80 °C) at -20+50 °C		
Ambient Temperature - Humidity:	-20+50 °C (storage temperature -35+70 °C) / 095 % rH, non condensing		
Pressure connection:	P+ / P- sleeves Ø 46 mm		
Measuring range:	± 100 Pa, ±250 Pa, ±500 Pa, ±1.250 Pa, ±2.500 Pa, ±5.000 Pa, ±7.500 Pa in acc. to type. Minimum measuring range is 20 % of full range (e. g. 20 Pa at ±100 Pa sensor)		
Response time of sensor:	T90 / 5 s		
Accuracy of pressure:	< ± 1 % typically, max. ±2 % of end value ± 1 Pa		
Zero point setting:	Via menu. Short-circuit mechanically both tube connectors P+ / P- for the moment of zero point setting		
Non linearity and hysteresis:	± 0,05 % typically, max. 0,25 % of end value		
Start delay:	55		
Stability:	Long term stability < 0,2 % / year, temperature influence < 0,02 % / K, supply voltage influence < 0,01 %		
Output:	Voltage U [V] or current I [mA], selectable on site via menu, protected against short circuit and external voltage up to 24 V and against polarity reversal		
Voltage output U:	010 VDC adjustable, invertible, burden > 1 kΩ, influence < 0,05 % / 100 Ω		
Current output I:	020 mA adjustable, invertible, burden < 500 Ω , influence < 0,1 % / 100 Ω , open circuit voltage < 24 V		
Output in alarm mode:	Increasing or decreasing output signal, selectable on site, down to 0 VDC / 0 mA or up to 10 VDC / 20 mA		
Scope of delivery:	Sensor, 3 self-tapping screws 4,2 x 13 mm, short circuit tube, Cos-PA with 1 additional plug for cable Ø 68 mm		
Parameter at delivery:	min./ max. pressure range limits (e.g. ExCos-P-100 = -100+100 Pa), output 420 mA, output in alarm mode decreasing to 0 V / 0 mA		
Dimensions:	180 x 107 x 66 mm		
Weight:	~ 950 g		
Cable entries:	2 x M16x1,5, Ex-e plastic cable gland ~ Ø 59 mm		





REDCOS-P DIFFERENTIAL PRESSURE TRANSMITTER

Zones 2, 22

Full catalogue available on our website: www.inpratex.com

ATEX INSTRUMENTATION

ZONES 2 (gas) & 22 (dust)

The RedCos-P-... pressure sensor generation from ±100 Pa to ±7.500 Pa (acc. to type) is a revolution for differential pressure measuring in HVAC systems, in chemical, pharmaceutical, industrial and offshore/onshore plants, for use in hazardous areas zone 2 (gas) and zone 22 (dust).

Highest protection class (ATEX) and IP66 protection, small dimensions, universal functions and technical data guarantee safe operation even under difficult environmental conditions. All sensors are programmable on site without any additional tools.



Pressure transmitter for HVAC systems, e.g. for differential pressure control.

- No additional module in the panel required
- 24 VAC/DC supply
- Outputs 0...10 V, (0)4...20 mA selectable
- Measurement range adjustable
- Actual value indicator (can be switched off)
- All parameters can be adjusted on site without additional tools and measurement devices



All sensors require a 24 VAC/ DC power supply. The electrical wiring must be realized via integrated junction box.

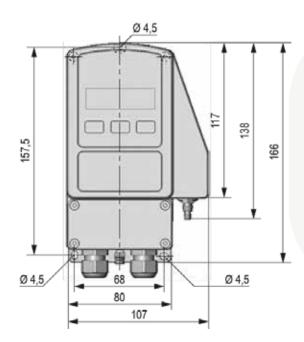
	RedCos-P DIFFERENTIAL PRESSURE TRANSMITTER FOR ZONE 2, 22				
Туре:	Max. range:	Overload protected:	red: Measurement range, min. 20% of max. range: Item No		
RedCos-P- 100	± 100 Pa	up to 25.000 Pa	± Measurement range free adjustable, min. range 20 Pa	9A2001	
RedCos-P- 250	± 250 Pa	up to 25.000 Pa	± Measurement range free adjustable, min. range 50 Pa	9A2002	
RedCos-P- 500	± 500 Pa	up to 50.000 Pa	± Measurement range free adjustable, min. range 100 Pa	9A2003	
RedCos-P-1250	± 1.250 Pa	up to 50.000 Pa	\pm Measurement range free adjustable, min. range 250 Pa	9A2004	
RedCos-P-2500	± 2.500 Pa	up to 50.000 Pa	± Measurement range free adjustable, min. range 500 Pa	9A2005	
RedCos-P-5000	± 5.000 Pa	up to 75.000 Pa	± Measurement range free adjustable, min. range 1.000 Pa	9A2006	
RedCos-P-7500	± 7.500 Pa	up to 120.000 Pa	± Measurement range free adjustable, min. range 1.500 Pa	9A2007	

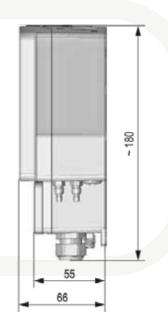
ACCESSORIES AND SPECIAL DESIGNS

Туре:	Technical specifications:	
Ex/RedCos-PA	Version with one additional intrinsically safe circuit (0)420 mA output to connect external actual value indicator in Ex areas	
InCos- PA	Version with one additional (0)420 mA output to connect external actual value indicator in safe area	
EXC-RIA-16 Intrinsic safe actual value LCD indicator, for use in zone 1,2,21,22, connectable to ExCos-PA or RedCos-PA transmitter		
NOC-RIA-16	LCD indicator, connectable to InCos-PA transmitter	
MKR-VA/AL Mounting bracket for installation on round air-ducts (diameter up to 600 mm)		
Kit 2 Includes 2 meter pressure hose (inner diameter 6 mm) and 2 plastic fittings		

Zones 2, 22

	TECHNICAL SPECIFICATIONS	
Marking:	(EX) II 3(1)G Ex nC [ia Ga] IIC T6T4 Gc II 3(1)D Ex tc [ia Da] IIIC T80°CT130°C Dc IP66	
Certificate:	EU-Type Examination Certificate	
Supply voltage / frequency:	24 VAC/DC ± 20% (19,228,8 VAC/DC), 50/60 Hz	
Current power consumption:	150 mA, ~ 4 W, internal fuse 500 mAT, without bracket, not removable	
Galvanic isolation:	Supply for analogue in- and outputs min. 1,5 kV, supply for relay output min. 1,5 kV	
Electrical connection:	Terminals 0,142,5 mm ² at integrated Ex-e terminal box, stripping lenght 9 mm, torque 0,40,5 Nm, equipotential bonding 4 mm ²	
Display / Control elements:	2 x 16 digits, dot-matrix display, backlit, for configuration, user guidance, parameter and actual value indication / 3 buttons for configuration	
Sensor / Sensor circuit:	Piezo messure transmitter / Internal intrinsically safe (IS) circuit	
Housing:	Aluminium die-cast housing, coated / T6 (T80 °C) at −20+50 °C	
Ambient Temperature - Humidity:	-20+50 °C (storage temperature -35+70 °C) / 095 % rH, non condensing	
Pressure connection:	P+ / P- sleeves Ø 46 mm	
Measuring range:	± 100 Pa, ±250 Pa, ±500 Pa, ±1.250 Pa, ±2.500 Pa, ±5.000 Pa, ±7.500 Pa in acc. to type. Minimum measuring range is 20 % of full range (e. g. 20 Pa at ±100 Pa sensor)	
Response time of sensor:	T90 / 5 s	
Accuracy of pressure:	< ± 1 % typically, max. ±2 % of end value ± 1 Pa	
Zero point setting:	Via menu. Short-circuit mechanically both tube connectors P+ / P- for the moment of zero point setting	
Non linearity and hysteresis:	± 0,05 % typically, max. 0,25 % of end value	
Start delay:	5 s	
Stability:	Long term stability < 0,2 $\%$ / year, temperature influence < 0,02 $\%$ / K, supply voltage influence < 0,01 $\%$	
Output:	Voltage U [V] or current I [mA], selectable on site via menu, protected against short circuit and external voltage up to 24 V and against polarity reversal	
Voltage output U:	010 VDC adjustable, invertible, burden > 1 k Ω , influence < 0,05 % / 100 Ω	
Current output I:	020 mA adjustable, invertible, burden < 500 Ω , influence < 0,1 % / 100 Ω , open circuit voltage < 24 V	
Output in alarm mode:	Increasing or decreasing output signal, selectable on site, down to 0 VDC / 0 mA or up to 10 VDC / 20 mA	
Scope of delivery:	Sensor, 3 self-tapping screws 4,2 x 13 mm, short circuit tube, Cos-PA with 1 additional plug for cable Ø 68 mm	
Parameter at delivery:	min./ max. pressure range limits (e.g. RedCos-P-100 = -100+100 Pa), output 420 mA, output in alarm mode decreasing to 0 V / 0 mA	
Dimensions:	180 x 107 x 66 mm	
Weight:	~ 950 g	
Cable entries:	2 x M16x1,5, Ex-e plastic cable gland ~ Ø 59 mm	





EXBIN-P PRESSURE / DIFFERENTIAL PRESSURE SWITCH

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX INSTRUMENTATION

ZONES 1, 2 (gas) & 21, 22 (dust)

The ExBin-P-... pressure switch generation from 5...5000 Pa (acc. to type) is a revolution for differential pressure switches in HVAC systems, in chemical, pharmaceutical, industrial and offshore/onshore plants, for use in hazardous areas zone 1, 2 (gas) and zone 21, 22 (dust).

Highest protection class (ATEX) and IP66 protection, small dimensions, universal functions and technical data guarantee safe operation even under difficult environmental conditions. All sensors are programmable on site without any additional tools.



- Power supply 24 VAC/DC
- Potential free switching contact output
- Adjustable switching threshold, hysteresis and start-up bypass time
- Adjustable switch activation delay (acc. to type)
- Integrated Ex-e terminal box
- No addional Ex-i module required
- No intrinsically safe wiring/installation between panel and sensor required
- No intrinsically safe wiring/installation and no space in the panel required
- Optional second switching output (acc. to type)
- Display with backlight, can be switched off
- Password locking
- Compact design and small dimension



All pressure switches require a 24 VAC/DC power supply. The electrical wiring must be realized via the integrated Ex-e terminal box acc. to ATEX. The terminals' type of protection is "Increased safety Ex-e".

	ExBin-P DIFFERENTIAL PRESSURE SWITCH FOR ZONE 1, 2, 21, 22						
Туре:	Measurement range:	Safe overload:	Setting range:	Special feature:	Item No.:		
ExBin-P- 100	0100 Pa	up to 5.000 Pa	1-stage adjustable switch-point in meas. range	Adjustable switch activation delay 0240 s	9A2301		
ExBin-P- 500	0500 Pa	up to 5.000 Pa	1-stage adjustable switch-point in meas. range		9A2302		
ExBin-P- 500-2	0500 Pa	up to 5.000 Pa	2-stage adjustable switch-point in meas. range		9A2303		
ExBin-P-5000	05000 Pa	up to 50.000 Pa	1-stage adjustable switch-point in meas. range		9A2304		
ExBin-P-5000-2	05000 Pa	up to 50.000 Pa	2 stage adjustable switch-point in meas. range		9A2305		

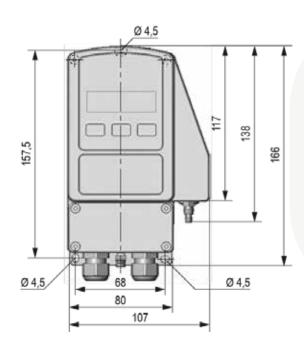
	ACCESSORIES AND SPECIAL DESIGNS		
Туре:	Technical specifications:		
Kit 2	Includes 2 meter pressure hose (inner diameter 6 mm) and 2 plastic fittings		
MKR-VA/AL	Mounting bracket for installation on round air-ducts (diameter up to 600 mm)		

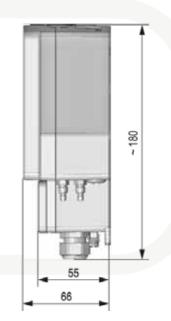
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EXBIN-P PRESSURE / DIFFERENTIAL PRESSURE SWITCH

Zones 1, 2, 21, 22

	TECHNICAL SF	PECIFICATIONS		
Marking:	(I) 2(1)G Ex e mb [ia Ga] IIC T6T4 Gb II 2(1)D Ex tb [ia Da] IIIC T80°CT130°C Db IP66			
Certificate:	EU-Type Examination Certificate			
Supply voltage / frequency:	24 VAC/DC ±20 % (19,228,8 VAC/DC), 50	0/60 Hz		
Current power consumption:	150 mA, ~ 4 W, internal fuse 500 mAT, wit	hout bracket, not removable		
Galvanic isolation:	Supply for relay output min. 1,5 kV			
Electrical connection:	Terminals 0,142,5 mm ² at integrated Execution equipotential bonding 4 mm ²	k-e terminal box, stripping lenght 9 mm, to	orque 0,40,5 Nm,	
Display / Control elements:	LC-Display, backlit, for configuration, use 3 buttons for configuration	er guidance, parameter and actual value in	dication. Status indicator via LEDs	
Sensor / Sensor circuit:	Piezo messure transmitter / Internal intr	insically safe (IS) circuit		
Housing:	Aluminium housing T6 (T80 °C) at −20+	50 °C		
Ambient Temperature - Humidity:	-20+50 °C (storage temperature -35+	70 °C) / 095 % rH, non condensing		
Pressure connection:	P+ / P- sleeves Ø 46 mm			
Measuring range:	0100 Pa	0500 Pa	05000 Pa.	
Measuring range.	Minimum measuring range is 5 % of full range (e.g. 25 Pa at500 Pa switch)			
Response time of sensor:	T90 / 5 s			
Accuracy of pressure:	< ± 1 % typically, max. ±2 % of end value ± 1 Pa			
Setting zero point:	Via menu. Short-circuit mechanically bo	th tube connectors P+ / P– for the moment	of zero point setting	
Setting range hysteresis:	0,110 Pa (factory setting 2 Pa)	0,550 Pa (factory setting 10 Pa)	5500 Pa (factory setting 100 Pa)	
Start delay:	5 s			
Start-up bypass time (AUB):	3240 s (factory setting 120 s)			
Switch activation delay:	0240 s (factory setting 0 s / Off)	-	-	
Output:	Potential free switching contact – breaking/making contact, adjustable per menu Max. rating load: 0,5 A (30 VAC/DC) – 0,1 A (250 VAC) – 0,1 A (220 VDC); min. rating load: 10 mW / 0,1 V / 1 mA			
Additional relay output (type2):	2): - as above -		-	
Duration of life:	Mechanical: 10 x 10 ⁶ Electrical: (rated load) 100 x 10 ³			
Scope of delivery:	Pressure switch, 3 self-tapping screws 4,	2 x 13 mm resp. in stainless steel (withC	T andVA versions), short circuit tube	
Dimensions:	180 x 107 x 66 mm			
Weight:	~ 950 g			
Cable entries:	2 x M16x1,5, Ex-e plastic cable gland ~ Ø 59 mm			





REDBIN-P PRESSURE / DIFFERENTIAL PRESSURE SWITCH

Zones 2, 22

Full catalogue available on our website: www.inpratex.com

ATEX INSTRUMENTATION

ZONES 2 (gas) & 22 (dust)

The RedBin-P-... pressure switch generation from 5...5000 Pa (acc. to type) is a revolution for differential pressure switches in HVAC systems, in chemical, pharmaceutical, industrial and offshore/onshore plants, for use in hazardous areas zone 2 (gas) and zone 22 (dust).

Highest protection class (ATEX) and IP66 protection, small dimensions, universal functions and technical data guarantee safe operation even under difficult environmental conditions. All sensors are programmable on site without any additional tools.



- Power supply 24 VAC/DC
- Potential free switching contact output
- Adjustable switching threshold, hysteresis and start-up bypass time
- Adjustable switch activation delay (acc. to type)
- Integrated Ex-e terminal box
- No addional Ex-i module required
- No intrinsically safe wiring/installation between panel and sensor required
- No intrinsically safe wiring/installation and no space in the panel required
- Optional second switching output (acc. to type)
- Display with backlight, can be switched off
- Password locking
- Compact design and small dimension



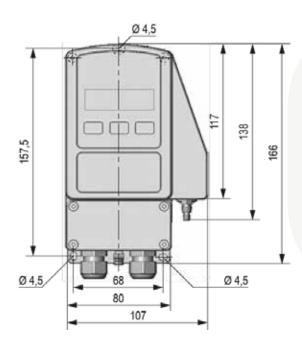
All pressure switches require a 24 VAC/DC power supply. The electrical wiring must be realized via the integrated Ex terminal box acc. to ATEX.

	RedBin-P DIFFERENTIAL PRESSURE SWITCH FOR ZONE 2, 22					
Туре:	Measure- ment range:	Safe overload:	Setting range:	Special feature:	Item No.:	
RedBin-P- 100	0100 Pa	up to 5.000 Pa	1-stage adjustable switch-point in meas. range	Adjustable switch activation delay 0240 s	9A2401	
RedBin-P- 500	0500 Pa	up to 5.000 Pa	1-stage adjustable switch-point in meas. range		9A2402	
RedBin-P- 500-2	0500 Pa	up to 5.000 Pa	2-stage adjustable switch-point in meas. range		9A2403	
RedBin-P-5000	05000 Pa	up to 50.000 Pa	1-stage adjustable switch-point in meas. range		9A2404	
RedBin-P-5000-2	05000 Pa	up to 50.000 Pa	2 stage adjustable switch-point in meas. range		9A2405	

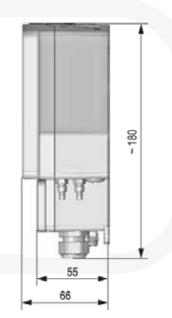
	ACCESSORIES AND SPECIAL DESIGNS		
Туре:	Type: Technical specifications:		
Kit 2	Kit 2 Includes 2 meter pressure hose (inner diameter 6 mm) and 2 plastic fittings		
MKR-VA/AL	MKR-VA/AL Mounting bracket for installation on round air-ducts (diameter up to 600 mm)		

REDBIN-P PRESSURE / DIFFERENTIAL PRESSURE SWITCH

	TECHNICAL S	PECIFICATIONS			
Marking:	(L)	D°C Dc IP66			
Certificate:	EU-Type Examination Certificate				
Supply voltage / frequency:	24 VAC/DC ±20 % (19,228,8 VAC/DC), 5	0/60 Hz			
Current power consumption:	150 mA, ~ 4 W, internal fuse 500 mAT, wi	thout bracket, not removable			
Galvanic isolation:	Supply for relay output min. 1,5 kV				
Electrical connection:	Terminals 0,142,5 mm ² at integrated E equipotential bonding 4 mm ²	ix-e terminal box, stripping lenght 9 mm, to	orque 0,40,5 Nm,		
Display / Control elements:	LC-Display, backlit, for configuration, us 3 buttons for configuration	er guidance, parameter and actual value ir	ndication. Status indicator via LEDs		
Sensor / Sensor circuit:	Piezo messure transmitter / Internal internal	rinsically safe (IS) circuit			
Housing:	Aluminium housing T6 (T80 °C) at −20	+50 °C			
Ambient Temperature - Humidity:	-20+50 °C (storage temperature -35+	70 °C) / 095 % rH, non condensing			
Pressure connection:	P+ / P- sleeves Ø 46 mm				
M	0100 Pa	0500 Pa	05000 Pa.		
Measuring range:	Minimum measuring range is 5 % of full range (e.g. 25 Pa at500 Pa switch)				
Response time of sensor:	T90 / 5 s	T90 / 5 s			
Accuracy of pressure:	< ± 1 % typically, max. ±2 % of end value	< ± 1 % typically, max. ±2 % of end value ± 1 Pa			
Setting zero point:	Via menu. Short-circuit mechanically bo	oth tube connectors P+ / P- for the moment	t of zero point setting		
Setting range hysteresis:	0,110 Pa (factory setting 2 Pa)	0,550 Pa (factory setting 10 Pa)	5500 Pa (factory setting 100 Pa)		
Start delay:	5 s				
Start-up bypass time (AUB):	3240 s (factory setting 120 s)				
Switch activation delay:	0240 s (factory setting 0 s / Off)	-	-		
Output:	5	Potential free switching contact – breaking/making contact, adjustable per menu Max. rating load: 0,5 A (30 VAC/DC) – 0,1 A (250 VAC) – 0,1 A (220 VDC); min. rating load: 10 mW / 0,1 V / 1 mA			
Additional relay output (type2):	-	as above	-		
Duration of life:	Mechanical: 10 x 10 ⁶ Electrical: (rated load) 100 x 10 ³				
Scope of delivery:	Pressure switch, 3 self-tapping screws 4,2 x 13 mm resp. in stainless steel (with CT and VA versions), short circuit tube				
Dimensions:	180 x 107 x 66 mm				
Weight:	~ 950 g	~ 950 g			



2 x M16x1,5, Ex-e plastic cable gland ~ Ø 5...9 mm



Cable entries:

EXREG-V VOLUME FLOW / PRESSURE CONTROLLER

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX INSTRUMENTATION

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ZONES 1, 2 (gas) & 21, 22 (dust)

Compact volume (air) flow controller ExReg-V.. for applications in hazardous locations in zone 1, 2, 21, 22 for control of air flows (CAV/VAV) in ventilation systems (HVAC). Suitable control actuator ExMax-..-CY (without spring return) or ExMax-..CYF (with spring return, safety function) available.

VAV control must be tested by the manufacturer of VAV dampers in acc. with diameter, design and characteristics of the air damper.

- Can be configured on site in the hazardous location
- Fewer components
- No necessity to install safety barriers or to use special wiring
- Integral PID loop
- Also for mobile applications



	VOLUME FLOW / PRESSURE CONTROLLER EXREG-V FOR USE WITH EXMAX ACTUATORS				
Туре:	Sensor:	Meas. range:	Connection / Interface (analogue):	Item No.:	
ExReg-V100-A	Differential pressure	0100 Pa	1 × actuator, 1 × set point, 1 × actual value, 1 × position actuator	9A1801	
ExReg-V300-A	Differential pressure	0300 Pa	1 × actuator, 1 × set point, 1 × actual value, 1 × position actuator	9A1802	
ExReg-V1000-A	Differential pressure	01.000 Pa	1 × actuator, 1 × set point, 1 × actual value, 1 × position actuator	9A1803	
ExReg-V100-B	Differential pressure	0100 Pa	1 × actuator, RS485 communication	9A1804	
ExReg-V300-B	Differential pressure	0300 Pa	1 × actuator, RS485 communication	9A1805	
ExReg-V1000-B	Differential pressure	01.000 Pa	1 × actuator, RS485 communication	9A1806	

ACTUATORS FORREG-V CONTROLLER						
Туре:	Torque:	Running time 90°:	Spring return:	Control mode:	Feedback:	Item No.:
ExMax- 5.10-CY	5 Nm / 10 Nm	7,5/15/30/60/120 seg.	-	420 mA	010 V	9A1807
ExMax- 15.30-CY	15 Nm / 30 Nm	7,5/15/30/60/120 seg.	-	420 mA	010 V	9A1808
ExMax- 5.10-CYF	5 Nm / 10 Nm	7,5/15/30/60/120 seg.	~ 10 sg	420 mA	010 V	9A1809
ExMax-15- CFY	15 Nm	7,5/15/30/60/120 seg.	~ 10 sg	420 mA	010 V	9A1810

ACCESSORIES AND SPECIAL DESIGNS		
Туре:	Technical specifications:	
MKR-VA/AL	Mounting bracket for installation on round air-ducts (diameter up to 600 mm)	
Kit 2	Includes 2 meters pressure hose (inner diameter 6 mm) and 2 plastic fittings	

EXREG-V VOLUME FLOW / PRESSURE CONTROLLER

	TECHNICAL SPECIFICATIONS
Marking:	EX II 2(1)G Ex e mb [ia Ga] IIC T6 Gb II 2(1)D Ex tb ib [ia Da] IIIC T80°C Db IP66
Certificate:	EU-Type Examination Certificate
Supply voltage / frequency:	24 VAC/DC ± 15% (20,427,6 VAC/DC), 5060 Hz
Current power consumption:	150 mA, ~ 3 W, internal fuse 350 mAT, without bracket, not removable
Galvanic isolation:	Supply to analogue inputs and outputs min. 1,5 kV, supply to relay output min. 1,5 kV
Electrical connection:	Terminals 0,142,5 mm ² in integrated Ex-e terminal box, wire stripping lenght 9 mm, tightening torque 0,40,5 Nm, equipotential bonding 4 mm ²
Display / Control elements:	LCD display backlit, for configuration, user guidance, parameter setting and actual value display. Status display via LEDs. / 3 buttons for configuration
Sensor / Sensor circuit:	Piezo messure transmitter / Internal intrinsically safe circuit
Housing:	Aluminium die-cast housing, coated
Ambient Temperature - Humidity:	-20+50 °C (storage temperature -35+70 °C) / 095 % rH, non condensing
Pressure connection:	P+ / P- sleeves Ø 46 mm
Measuring range:	0300 Pa, minimum measuring range is 2 % of full scale
Sensor damping (filter):	150 seconds, adjustable
Precision of pressure measurement:	± 2,5 % full scale ± 1 Pa
Zero point setting:	Via menu. Both tube connections P+ / P- must be mechanically short-circuited for the time of zero point setting
Volume flow:	Calculation via k factor ("shield factor"); adjustable parameters: Vmax, Vmin, VNom, k-factor
Control:	Adaptative PID controller (automatic or manual mode selectable)
Control tolerance:	15 % adjustable
Delay time:	35
Alarm monitoring:	Volume flow monitoring; adjustable functions: tolerance limit (fixed value and variable value), alarm delay
Life time mecanically / electrically:	10x10 ⁶ / 100x10 ³
Dimensions:	180 × 107 × 66 mm
Weight:	~ 950 g
Cable entries:	2×M16, Ex-e plastic cable gland ~ Ø 59 mm



XMLW HYDRAULIC PRESSURE SWITCHES

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX INSTRUMENTATION

ZONES 1, 2 (gas) & 21, 22 (dust)

With a wide range of pressures, from 0.1 to 500 bars, the XMLW pressure switches allow to control fluids in hazardous areas.

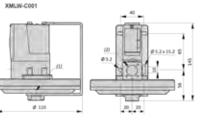
They meet the highest level of protection for the explosive atmospheres.



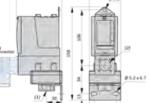
ITEM REFERENCES						
Pressure switch	Catting you go upp	Sotting range upper	Fluids	Possible differential (add to PB to get PH):		
with display:	Gauge:	Setting range upper threshold (ph):	controlled:	Min. low setting:	Min. high setting:	Max. high setting:
XMLW-C004B2S12	4 bar	0.3 4 bar	Hydraulic oils, water, air	0.17 bar	0.15 bar	2.5 bar
XMLW-C010B2S12	10 bar	0.7 10 bar	Hydraulic oils, water, air	0.45 bar	0.70 bar	8 bar
XMLW-C035B2S12	35 bar	3.5 35 bar	Hydraulic oils, water, air	1 bar	1.5 bar	22 bar
XMLW-C160D2S12	160 bar	12 160 bar	Hydraulic oils, air	9 bar	21 bar	110 bar

TECHNICAL SPECIFICATIONS			
Marking:	II 2G Ex d e IIC T6 Gb II 2D Ex tb IIIC T85°C Db For Tfluid < +65°C		
Certificate:	EU-Type Examination Certificate		
Housing:	Zamac		
Operating temperature:	-20°C to +60°C		
Ingress protection:	IP66 according to EN/IEC 60529		
Rated thermal current:	6 A		
Insulation voltage:	250 V		
Contact block:	Single-pole snap action NO+NC		
Electrical connection:	Screw terminal block		
Short circuit protection:	By fuse 6 A gG (gl) to be installed outside the Ex area		
Hydraulic connection:	1/4" gas female - Other on request		
Cable entries:	1 x M20x1,5 for cable Ø 8 to 13 mm		









XMLW-C004B2S12



XMLW-CM02T2S12



(1) Fluid entry G % (2) Electrical conne n M20 x 1.5

Full catalogue available on our website: www.inpratex.com

ATEX INSTRUMENTATION

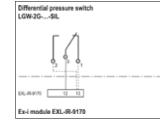
ZONES 1, 2 (gas)

The differential pressure switch LGW-2G-...-SIL is suitable for monitoring over-, differentialand underpressure of air, gaseous, non-aggressive media in air ducts, in supply or exhaust air units.

In combination with Ex-i switch type EXL-IR-9170 with intrinsically safe circuit, the sensors can be used in hazardous locations in zone 1 and 2. The switching amplifier may only be installed and operated in non-hazardous atmospheres.

The sensor has a passive, potential-free switch contact.







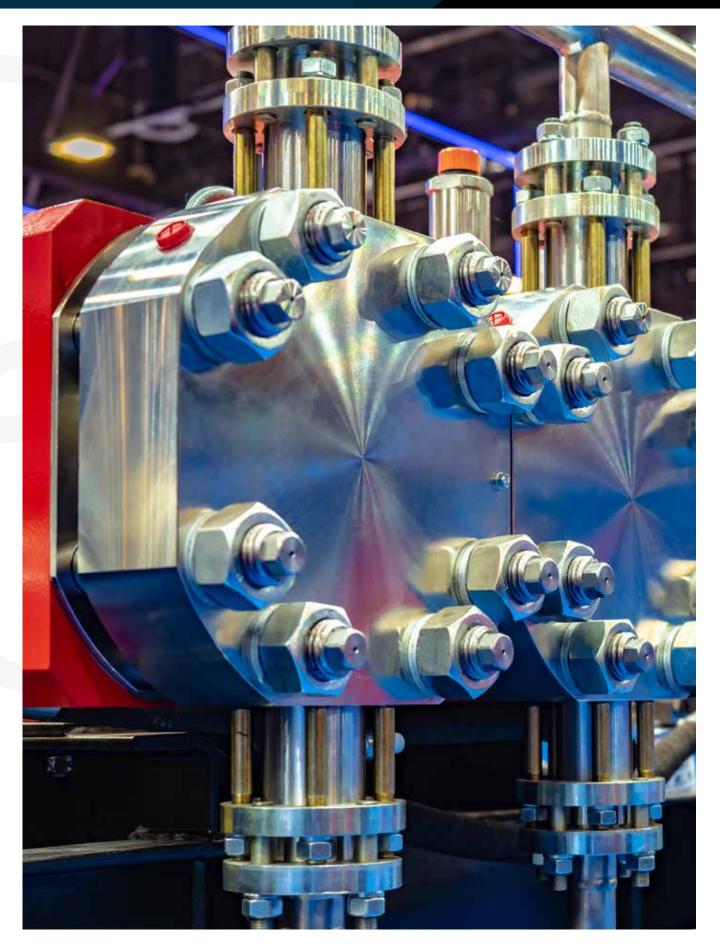
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ITEM REFERENCES					
Designation:	Item No.:				
LGW-2G-40-300-SIL	40 300 Pa	30 Pa +/- 15 %	9A2801		
LGW-2G-100-1000-SIL	100 1.000 Pa	30 Pa +/- 15 %	9A2802		
LGW-2G-250-5000-SIL	250 5.000 Pa	30 Pa +/- 15 %	9A2803		
LGW-2G-3000-15000-SIL	3.00015.000 Pa	30 Pa +/- 15 %	9A2804		

			Ex-i CIRCUIT			
Designation:	Voltage:	Max. voltage Uo:	Max. current lo:	Max. power Po:	Safety- related max. voltage:	Item No.:
9170/11-13-21s	110 - 230 VAC	9.6 V	10 mA	24 mW	253 V	9A2901
9170/11-11-11s	24 VDC	9.6 V	10 mA	24 mW	253 V	9A2902

TECHNICAL SPECIFICATIONS				
Marking:	Simple apparatus			
Certificate:	Declaration of Conformity			
Contact:	Single potential free switch			
Max. operating pressure:	50.000 Pa (500 mbar)			
Ambient temperature:	-15+70 °C			
Storage temperature:	-15+70 °C			
Humidity:	050 %rH, non condensing			
Medium:	Gaseous, non aggressive			
Diaphragm:	NBR, silicone free			
Pressure connection:	Ø 4,6 mm			
Enclosure:	Plastic, PC			
Ingress protection:	IP54 (EN60529)			
Dimensions and weight:	82 x 82 x 46,5 mm, approx. 200 g			
Protection class:	Simple apparatus acc. to EN 60079-0/ EN 60079-11			
Scope of delivery:	1 differential pressure switch type LGW-2GSIL			
Installation area:	Zone 1 or 2 when using a Ex-i switch type EXL-IR-9170			
Installation Ex-i module (EXL-IR-9170):	Safe area			
Cable entries:	1xM20 plastic cable gland (Ø 7-13 mm)			



DETECTIONAND MEASUREMENT

Zones 1, 2, 21, 22

ATEX INSTRUMENTATION



ZONES 1, 2 (gas) & 21, 22 (dust)

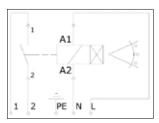
The HF motion detector EMH 90 operates at smallest movements in its detection range.

The detection also works through thin, non-conductive walls materials of glass, plastic or wood.

The sensitivity, switching time and photosensitivity can be set on the motion detector. These settings can only be done when the Ex d enclosure is open.

The HF motion detector EMH 90 is suitable for use in hazardous areas of Zone 1 and 21.

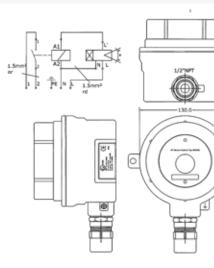


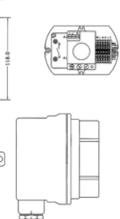


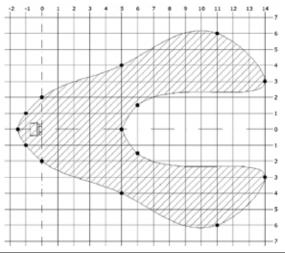
Full catalogue available on our website: www.inpratex.com

ITEM REFERENCES	
Designation:	Item No.:
ЕМН 90	4D0701

TECHNICAL SPECIFICATIONS				
Marking:	EX II 2G Ex d IIC T6 GD II 2D Ex tb IIIC T85°C Db			
Certificate:	EU-Type Examination Certificate			
Housing:	Aluminium			
Operating temperature:	-20°C to +40°C			
Ingress protection:	IP66/67			
Rated voltage:	230 VAC			
Switching capacity:	max. 6 A			
Settings:	Photosenditivity range working time (10 seg 12 min.)			
Connection terminals:	Input: L, N, PE 1,5mm ² Output: 1,2 pot. Free contact, 1 NO			
Cable entries:	1 x 1/2" NPT (Cable gland not included)			







Distance measured in meters

NSTRUMENTATION 😧 6

PHOTOCELLS

Output type in DC circuit /

Zones 1, 2, 21, 22

The robust photoelectric sensor XUWB is designed to meet the highest requeriments for use in Oil&Gas, Chemical, Pharmaceutical and Food industries.

With a footprint diameteer of only 30 mm, these ATEX Ex d prewired photocells can be used in all types of applications and processes.

With a nominal range from 0,6 m to 15 m, it will be able to meet all needs.

NOTE: Minimum detection distance 20cm.

ITEM REFERENCES

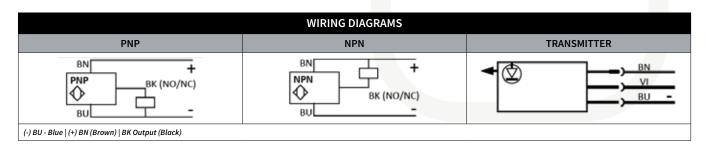
Reflex:

Reflex polarized:

Reflector	(L=72mm)	(L=72mm)	(L=72mm)
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PNP OUTPUT NO	XUWB9APANL2	XUWB1APANL2	XUWB2APANL2R + XUWB2AKSNL2T
Reflector	Scope 1,4 m Reflector XUZC39 (use in group IIC)	Scope 3 m Reflector XUZC39 (use in group IIC)	15 m
PNP OUTPUT NC	XUWB9APBNL2	XUWB1APBNL2	XUWB2APBNL2R + XUWB2AKSNL2T
Reflector	Scope 1,4 m Reflector XUZC39 (use in group IIC)	Scope 3 m Reflector XUZC39 (use in group IIC)	15 m
NPN OUTPUT NO	XUWB9ANANL2	XUWB1ANANL2	XUWB2ANANL2R + XUWB2AKSNL2T
Reflector	Scope 1,4 m Reflector XUZC39 (use in group IIC)	Scope 3 m Reflector XUZC39 (use in group IIC)	15 m
NPN OUTPUT NC	XUWB9ANBNL2	XUWB1ANBNL2	XUWB2ANBNL2R + XUWB2AKSNL2T
Reflector	Scope 1,4 m Reflector XUZC39 (use in group IIC)	Scope 3 m Reflector XUZC39 (use in group IIC)	15 m

Reflex: The bounce is on the reflector. The polarized version is less sensitive to light.

Barrier: Increases detection distance (no bounce).



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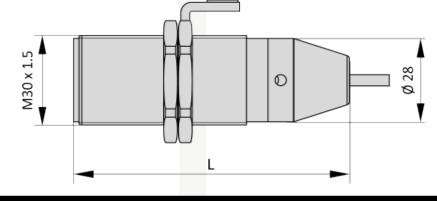
EU-Type Examination Certificate

Barrier:

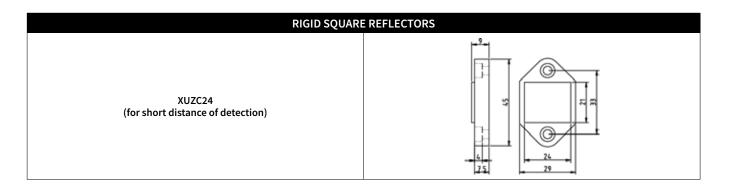
PHOTOCELLS Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

	TECHNICAL SPECIFICATIONS
Marking:	Ex d IIC T6 Gb Ex tb IIIC T85°C Db
Certificate:	EU-Type Examination Certificate
Housing:	Nickel platted brass. Stainless steel AISI 316L (in option)
Operating temperature:	-20°C to +55°C
Ingress protection:	IP67
Type of transmission:	Infrared
Supply voltage:	1224 VDC with protection against reverse polarity
Voltage limits (including ripple):	1036 VDC
Current consumption:	35 mA
Switching capacity:	≤ 100 mA with overload and short-circuit protection
Voltage drop, close rate:	1,5 V
Maximum switching frequency:	500 Hz
Output state:	Yellow LED
Electrical connection:	By cable 2m for XUWBL2 By cable 5m for XUWBL5 (in option)
Fixing diameter:	M30x1,5



STANDARD CIRCULAR REFLECTORS				
	CODE	A (mm)	B (mm)	C (mm)
	XUZC16	21	17	5,5
	XUZC39	46	37	6,5



Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX INSTRUMENTATION

ZONES 1, 2 (gas) & 21, 22 (dust)



Magnetic proximity switches ideal for any contactless control, indispensable to detect and/or count any items passing by at remarkable speed.

Peculiar for applications in critical environements dominated by the presence of oils, greases, liquids, dusts, etc...



Not subject to any mechanical wear and thus, compared to traditional switches, a longer operating life is guaranted.

ITEM REFERENCES				
Designation:	Contact:	Cable:	Item No.:	
IM/U	Monostable	1 m (included)	4D0501	
IM/AB	Bistable	1 m (included)	4D0502	
IM/UM-SX14N-MH2-4 (with junction box)	Monostable	Not included	4D0503	
IM/AB-SX14N-MH2-4 (with junction box)	Bistable	Not included	4D0504	

TECHNICAL SPECIFICATIONS			
Marking:	EX II 2G EX d IIC T6/T5 Gb II 2D EX tB IIIC T85°C/T100°C Db		
Certificate:	EU-Type Examination Certificate		
Housing / Fixing brackets:	Stainless steel AISI 316L		
Operating temperature:	-20°C to +40°C		
Ingress protection:	IP66		
Contact type:	Switching (NO)		
Contact material:	Rhodium		
Max. switching power:	40 VA		
Max. switching voltage:	250 Vdc - 220 Vac		
Max. current peak:	1A		
Contact resistance:	0,075 Ω		
Contact vibration time:	0,3 ms		
Switching frequency:	100 Hz		
Switching hysteresis:	~ 5 mm		
Set point accuracy:	0,01mm		
Axial vibration resistance:	100 gr		
Contact mechanical life:	10 ⁸ operations		
Connecting cable:	2x0,75 mm ² - 3x0,75 mm ²		
Cable entries:	Stainless steel 1/2" NPT cable gland		

INSTRUCTIONS

Permanent magnets must be mounted by countersunk screws in not-magnetic materials such as brass, aluminum, stainless steel or plastic.

Larger switch control distance is reached when the permanent magnet is directly fixed to an iron support.

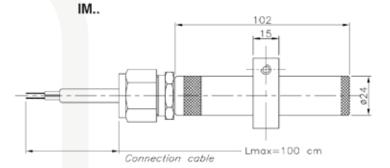
Embedding the permanent magnet in a mass of iron causes a short circuit of the magnetic field; there should be a distance of the iron surface of 1-3 millimeters. This type of mounting significantly reduces the operating distance of magnetic switch.

The permanent magnets featuring north polarity have red protection cap whereas it is blue for south polarity. The protection caps are made of polyamide.

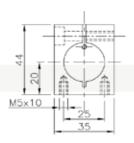
MAGNETIC PROXIMITY SWITCHES

Zones 1, 2, 21, 22



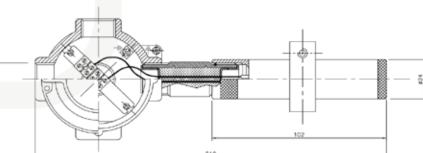


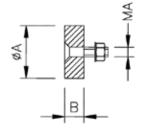




NPT ANSI B1.20

¢%.





	PERMANENT MAGNETS					
Designation:	А	В	MA	Distance:	Weight:	Item No.:
MG1 Magnet	23	7	3x15	3 + 7 mm	15 g	4D0510
MG2 Magnet	23	11	4x20	5 + 12 mm	20 g	4D0511
MG3 Magnet	35	17	5x22	12 + 25 mm	60 g	4D0512

Zones 1, 2, 20, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX INSTRUMENTATION

ZONES 1, 2 (gas) & 20, 21, 22 (dust)

The ATEX/IECEx certified inductive sensors of the IS Series in M30 are designed for the protection and / or monitoring of doors, machine flaps, robots. These inductive sensors are dirt-sensitive and can be used in almost all industrial areas. The sensors detect metals (e.g., St37). Thus, no magnets or other encodings are needed on the opposite side of the sensors. Due to the sensor construction, a bridging is possible.

Depending on the sensor type, switching distances of 2mm to 40mm (square version 80mm x 80mm) are possible. The downstream safety modules are freely selectable. Additional Ex-devices such as disconnect devices or Zener barriers are not required! The sensors have a CE marking, as well as the GS symbol (category 4 of personal protection) of the MMBG.



Applicable for ex-areas 1, 2, 21, 22
 Safety integrity level (SIL) 3 according to IEC 61508

- Performance level (pl) e according to EN ISO 13489

Note: The end of the cable must be connected outside the hazardous locations.



	ITEM REFERENCES					
Designation:	Dimensions:	Wiri	ing:	Item No.:		
ISD-10-B-GD	Cable length: 6m	Wire number 1 2 3 4 yellow-green white	ISD-10-B-GD +24VDC OV OSSD A1 OSSD A2 PE/PA Cable shield	9D0201		

	ACCESSORIES
	- 2x nuts M30. (Optional 1x clamp)
Only ISN-10-B-GD, included	 - 1x Safety lock device, mount at the cable connection, for locking the connection. - 1x Warning plate "Do not open/close when supply voltage connected", self-sealing, for gluing on the cable connector.
Only ISS/ISN-10-B(-GD), options	 1x Protection cap for the sensor socket. Single ended cordset, types RKTS 5-298/xx or RKWTH 5-298/xx, Lumberg, NOT INCLUDED. Other cable lengths on request ISD-10-B-GD-S223: Housing stainless steel 316ss. IS*-10-B-GD-S299: Housing stainless steel 1.4404 (316L)

ISD INDUCTIVE SENSOR Zones 1, 2, 20, 21, 22

	TECHNICAL SPECIFICATIONS
Marking:	II 2G Ex db IIC T5 Gb II 1/2D Ex ta/tb IIIC T100°C Da/Db IP67
Certificate:	EU-Type Examination Certificate
Housing:	M30, brass, nickel plated / Sensing area: Synthetic, PEEK mod.
Operating temperature:	-10°C to +50°C
Storage temperature range:	-45°C to +70°C
EMC, shock and vibration resistance:	According to EN 60947-5-2
Ingress protection:	IP67
Туре:	SRP/CS - SREC, fail-safe inductive sensor PDDB, I1A30AP1
Performance Level (PL), EN 13849-1:	PLe
Safety category, EN 13849-1:	4
Safety integrity level, EN 62061:	SILCL 3
Safety-related reliability PFHd [1/h]:	2.47 x 10-8
MTTFd [Years]:	100
DC/CCF/Cat.:	99% / 92 / 4
Installation method:	Embaddable (flush) mountable
Rated operating distance sn:	10mm, (on steel 37, (sn x 3)2 x 1mm), at non flush mounting, at EN 60947-2-5
Enable zone:	>=3mm <=8mm, (on steel 37, (30mm x 30mm x 1mm)
Hysteresis:	0.5-1.5mm
Safe switching off distance s(ar):	30mm
Repeatability:	<100um
Utilzation category:	DC 13
Supply voltage Ue:	24VDC +-10% (Power supply type PELV according to EN 60204, item 6.4.2)
Absolute maximum supply voltage Um:	30VDC
Rated insulation voltage:	75VDC/50VAC
Current consumption:	35mA
Maximum power dissipation:	0.98W
Response time to safety request:	20ms
Power up delay time:	200ms
OSSD:	2 x PNP (A1 and A2)
Output voltage at 24 V:	Compatible with EN 61131-2 inputs type 1, 2, 3
Voltage drop:	< 2V, (70mA)
Current rating:	70mA
Short-circuit protection:	Yes
Display:	LED green (OSSD=ON), LED red (OSSD=OFF)
Connection cable:	4+PE x 0,5mm ² , TPU jacket, shielded, leads numbering marked, diameter: 6.3mm, length: 6m
Socket:	NONE
Function and LED indication:	Object detected, LED green No object detected, LED red
Output with dynamic test function Object detected, Outputs switched ON:	2 x PNP-Outputs, Transistors open 1 +24\/DC 3 DSSD A1 4 OSSD A2 Safe state 2 : 0V

Zones 1, 2, 21, 22

ATEX INSTRUMENTATION

ZONES 1, 2 (gas) & 21, 22 (dust)

ATEX/IECEx certified Laser Distance Sensors designed to measure distances within potentially explosive atmospheres in Ex Zones (0), 1, 2, (20), 21, 22.

- Exact, precise and millimeter-accurate measurement by means of time-of-flight measurement.
- Easy alignment through visible red light laser.
- Measurement range digital output: 0.05m to 30m.
- Suitable for matt, shiny and different colored (also black) objects.
- Explosion-proof, robust stainless steel housing M42x1,5 in flameproof enclosure Ex "d".
- Analog output signal 4mA to 20mA and serial data interface RS-485.
- Optical power limitation sensors are allowed to radiate in zone 0 and 20.



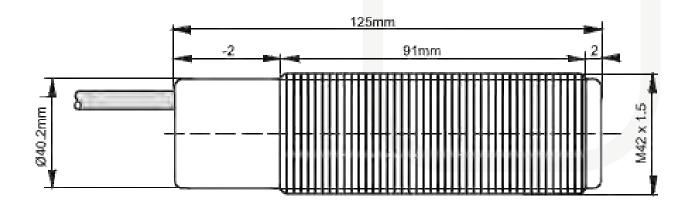
Full catalogue available on our website: www.inpratex.com



ITEM REFERENCES				
Designation:	Measurement range analog output:	Measurement range digital output:	Item No.:	
LDG-AAA-FCG-OF	0.05m to 30m	0.05m to 30m	9D0101	
LDG-AAB-HBA-OF	50mm to 4000mm	0.05m to 30m	9D0102	
If the analog output is used: LDG-AAA-FCG-OF: The connection kit is needed to make the settings (example: 0.05m to 2m), and then the converter can be removed. LDG-AAB-HBA-OF: The analog output is direct from 0.05m to 4m. Expected values: 50mm=4mA to 2000mm=12mA. If the RS485 digital output is used: The connection kit is always needed				

Connection kit: - Software / - MOXA UPORT 1130 Converter / - MINI DB9F-TU-TB Adaptor

9D0103



LASER DISTANCE SENSORS

Full catalogue available on our website: www.inpratex.com

INSTRUMENTATION 🏟 6

	TECHNICAL SPECIFICATIONS	
	LDG-AAA-FCG-OF	LDG-AAB-HBA-OF
Marking:	(1) (1) G Ex db [op is Ga] IIA T4 Gb (1) II 2(1) D Ex tb [op is Da] IIIC T135°C Db	
Certificate:	EU-Type Examination Certificate	
Housing / Fixing brackets:	Stainless steel AISI 316L	
Operating temperature:	-10°C up to +35°C ¹ /-10°C up to +50°C ² ¹ For a longer life time of the laser diode, the housing temp ² For housing temperature larger than +35°C° use the sense "Datasheet supplement"	
Storage temperature range:	-20°C up to +70°C	
Relative humidity:	15% 80%	
Ingress protection:	IP67	
Measurement methods:	Time-of-flight measuring	
Light Source:	Laser Class 2, in accordance with EN 60825-1	
Maximum optical radiant intensity:	<=1mW, wave length: 650nm	
Respons <mark>e time:</mark>	minimum 0.05s, maximum 4.5s	minimum 0.1s, maximum 4.5s
Pollution degree:	4	
Utilization category:	D3A42AP1	
Supply voltage, Ue:	24VDC	
Absolute maximum supply voltage, Um:	30VDC	
Current consumption:	70mA	
Maximum power dissipation:	2.4W	
Typical measurement tolerance:	Up to 10m: +-1mm, applies for 100% target reflectivity, in	low-light ambient, T _{amb} : 25°C
Maximum measurement tolerance:	Up to 10m: +-2mm, applies for 10% to 500% target reflecti	vity, in strong light ambient
Distance dependent increase of measurement tolerance:	<=0.15mm/m	
Analog current output, type:	PNP, 4mA to 20mA, short circuit protected	
Analog current outputs, operating range:	0.05m to 30m (0.05m = 4mA, 30m = 20mA)	50mm to 4000mm (50mm = 4mA, 4000mm = 20mA)
Analog current output, error indication:	3.5mA: Measurement invalid 20.5mA: Object out of measurement range	
Analog current output, resolution:	1mm = 0,0005mA	1mm = 0,004mA
Analog current output, load range:	500R <= R _L <= 1000R	
Serial interface, type:	RS 485, Format: 9600 baud, 8 data bits, 1 stop bit, Parity no	one, Handshaking none
Serial interface, range:	0.05m to 30m	
Serial interface, resolution:	1mm	
Input type:	START Input, PNP compatible	
Input function:	"H" +24VDC: Starts measurement, "L" 0V: Stops measuren	nent
Power up delay time:	500ms	
Housing:	M42, Material: Stainless steel 1.4404	
Laser lifetime:	Appr. 30'000h, typically, at a housing temperature of +20°0 recommendation: Apply 0V to the START-input, when no m	
Connection cable:	Length: 5m, PUR jacket, 6+PE x 0.5mm ² , shielded, non-halogen, leads numbering marked, good chemical resistance, drag chain suitable	Length: 10m, PUR jacket, 6+PE x 0.5mm ² , shielded, non-halogen, leads numbering marked, good chemica resistance, drag chain suitable
Options:	Cable length: Up to 100m, upon request	
Accessories:	2 nuts M42 (included)	
Electrical connection: Wire number Function 1 24VDC 2 0V 3 START-Input (+24VDC active) 4 Current output: PNP, 4mA to 20mA 5 RS 485 - Y 6 RS 485 - Z yellow-green PE white Cable shield	LDG-AAA-FCG-OF 2 4 Corrent output: PNP, 4mA to 20mA 3 5 7 RS 485 Transceiver 2 yellow-green PE Cable shield, connect to PE	

NANUAL PUNPS



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Range of manually operated pumps equipped for the transfer of liquids in potentially explosive environments.

Especially suitable for emptying mobile containers such as jerry cans, drums or tanks.

The ATEX-certified hand pumps ,which can be handled with one hand for ease of use, ensure the correct and safe extraction of the substance or liquid contained.

AT1 UNLINED MANUAL SEMI-ROTARY PUMP AT2 UNLINED MANUAL SEMI-ROTARY PUMP

AT1 UNLINED MANUAL SEMI-ROTARY PUMP

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX PUMPS

ZONES 1, 2 (gas) & 21, 22 (dust)



ATEX manual semi-rotary pump designed for the transfer of fluids in a potentially explosive atmosphere.

The pump includes a 300 micron stainless steel filter, which protects it from all outside intrusions.

It is delivered with a grounding ca electrostatic conductivity.

COMPATIBLE FLUIDS:

Water, petrol, gasoil, alcohol, tolue

cable and a clip, connection of which ensures ene, triclorethylene, acetone, white spirit, etc.	

ITEM REFERENCES				
Designation:	Flow rate:	Weight:	Item No.:	
AT1 Manual Semi-Rotary Pump	1300 l/h	6,5 kg	9B0101	

	TECHNICAL SPECIFICATIONS		
Marking:	€ II 2GD IIC T4 (Tf<120°C)		
Certificate:	EU-Type Examination Certificate		
Body/Lid/Lever:	Cast iron (EN-GJL-200 o 250)		
Internal mechanism:	Brass (Cu Zn39 Pb1 Al B)		
Couplings:	Ø 3/4" Cast iron (EN-GJL-200)		
Pump axle and screws:	Steel (11SMNPB37)		
Seat gasket:	PTFE braid		
Coupling gasket:	PEB (Expanded PTFE)		
Fixing:	2 lugs (dist. betw. centres 148mm - Ø 12mm)		
Filter:	300 microns, 304 stainless steel rose (Z6 CN 18.19)		
Cable lenght:	2m with clamp for earthing		
Sealing of the shaft:	PTFE braid held by a cast iron compression gland		
Flow rate - Double stroke:	80 per min		
Total lift height:	22 m 57		
Sealing control with compressed air:	5 kg/cm ²		
Intake capacity:			
Flow by double stroke:	0,271		
Angular travel of the lever:	115°		
Operating temperature:	-20°C to +40°C		

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AT2 UNLINED MANUAL SEMI-ROTARY PUMP

Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

ATEX PUMPS

ZONES 1, 2 (gas) & 21, 22 (dust)



ATEX manual semi-rotary pump designed for the transfer of fluids in a potentially explosive atmosphere.

The pump includes a 300 micron stainless steel filter, which protects it from all outside intrusions.

It is delivered with a grounding cable and a clip, connection of which ensures electrostatic conductivity.

COMPATIBLE FLUIDS:

Water, petrol, gasoil, alcohol, toluene, triclorethylene, acetone, white spirit, etc.



ITEM REFERENCES				
Designation:	Designation: Flow rate: Weight: Item No.:			
AT2 Manual Semi-Rotary Pump	2000 l/h		8,5 kg	9B0102

TECHNICAL SPECIFICATIONS				
Marking:	€ II 2GD IIC T4 (Tf<120°C)			
Certificate:	EU-Type Examination Certificate			
Body/Lid/Lever:	Cast iron (EN-GJL-200 o 250)			
Internal mechanism:	Brass (Cu Zn39 Pb1 Al B)			
Couplings:	Ø 1" Cast iron (EN-GJL-200)			
Pump axle and screws:	Steel (11SMNPB37)			
Seat gasket:	PTFE braid			
Coupling gasket:	PEB (Expanded PTFE)			
Fixing:	2 x M12, dist. betw. centres 142mm			
Filter:	300 microns, 304 stainless steel rose (Z6 CN 18.19)			
Cable lenght:	2m with clamp for earthing			
Sealing of the shaft:	PTFE braid held by a cast iron compression gland			
Flow rate - Double stroke:	80 per min			
Total lift height:	15 m			
Sealing control with compressed air:	5 kg/cm ²			
Intake capacity:				
Flow by double stroke:	0,411			
Angular travel of the lever:	115°			
Operating temperature:	-20°C to +40°C 5 5 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			

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RISCELLANEOUS



11 - MISCELLANEOUS

Equipment suitable to be used or installed in hazardous or potentially explosive environments.

Electric door holders, magnetic proximity switches, photocells and other ATEX certified devices or products designed to be used in explosive atmospheres.

ELECTRIC DOOR HOLDER MAGNETS ELECTRIC STRIKES PORTABLE GAS DETECTORS AIR CONDITIONERS VACUUM CLEANERS AND AIR MOVERS

Our product ranges are constantly updated on our website: www.inpratex.com

Zones 1, 2, 21, 22

CE

EU-Type Examination Certificate

MISCELLANEOUS

ZONES 1, 2 (gas) & 21, 22 (dust)

EXM door holder magnets to keep doors open or closed as long as supply voltage is available. Explosion-proof magnets for fire doors, fire dampers or safety doors and locks.

When the supply voltage is cut off, the magnet looses its retention force and the safety operation is working when using appropriate mechanisms like springs, weights, cranks or similar safety placements provided by the customer.

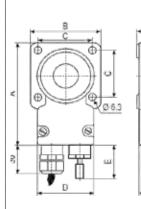
Maintenance free. An inspection is recommended every 6 months.

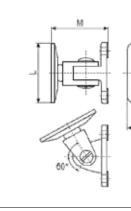
ITEM REFERENCES						
Туре	Type Current consumption: Power: Force: Dimensions: (connectors included) Weight: Item No.:					
EXM-650	45 mA	~ 1 W	650 N	~ 138x66x43 mm	~ 650 gr	7F0201
EXM-1300	65 mA	~ 1,5 W	1300 N	~ 164x86x58 mm	~ 1950 gr	7F0202
EXM-2000	160 mA	~ 3,7 W	2000 N	~ 164x86x58 mm	~ 1950 gr	7F0203

TECHNICAL SPECIFICATIONS			
Marking:	Ex II 2G Ex mb IIC T6 Gb		
Certificate:	EU-Type Examination Certificate		
Housing:	Steel, plastic (Polycarbonate)		
Operating temperature:	-20°C to +55°C		
Power supply:	24 VDC ± 10% (21,626,4 VDC)		
Ripple:	max. 20%		
Ingress protection:	IP65		
Connection:	~ 1 m cable PVC, non-halogen and silicone free. Wire cross section ~ 1 mm ² Connections in hazardous areas require an Ex-e terminal box!		
Delivery:	Electromagnetic holder without anchor plate and mounting material		

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	Dimensions	EXM-650, GH-6	EXM-1300,2000, GH-13/20
	А	104 mm	130 mm
	В	66 mm	86 mm
	с	52 mm	70 mm
	D	55 mm	64 mm
	E	34 mm	34 mm
	F	43 mm	58 mm
1	G	Ø 54 mm	Ø 81 mm
	н	38 mm	43 mm
	I	60 mm	80 mm
	к	44 mm	60 mm
	L	Ø 56 mm	Ø 86 mm
	м	51 mm	62 mm
	N	Ø 6.3 mm	Ø 8.0 mm

	ACCESSORIES AND SPECIAL DESIGNS
Туре:	Technical Specifications:
05	Magnet with 5 m cable (PVC, non-halogen and silicon free)
15	Magnet with 15 m cable (PVC, non-halogen and silicon free)
GH-6	Anchor plate for EXM-650
GH-13/20	Anchor plate for EXM-1300 and EXM-2000
ExBox-3P	Ex-e terminal boxes for zone 1, 2, 21, 22
EXC-K4/S	Ex-e terminal boxes with integral fuse
EXC-T1	Ex-e pushbutton for manual release
N1 power supply	Input: 100230 VAC, 0.29-0.18 A, 50/60 Hz 120230 VDC, 0.14-0.07 A Output: 24 VDC, max. 0.6 A

AR-030 DOOR MAGNET

Zones 2, 22

Full catalogue available on our website: www.inpratex.com

MISCELLANEOUS

ZONES 2 (gas) & 22 (dust)

The AR-030 explosion-safe door magnet is a universally-applicable door magnet for floor or wall mounting. The magnetic head can easily be positioned horizontally or vertically. The door magnet is manufactured from impact-resistant plastic with a vandal-proof release button and a factory sealed cable, 5 meters long.

The door-retaining magnet system provides a completely reliable solution. For normal use, the doors are held open by electromagnets. In case of fire or alarm, the door magnets are switched off from the porter's lodge or automatically by the fire alarm system, so that the door closers or springs close the doors immediately. The doors can still be opened, but close again straight afterwards.

The AR-030 door magnet is explosion-safe and certified in accordance with European Directive 2014/34/EU and is CE marked.

The door magnet is therefore suitable for a wide variety of applications.









ITEM REFERENCES						
Туре:	:: Current consumption: Power: Holding force: Connection: Weight: Item No.:					
AR-030/001	100 mA AC / 63 mA DC	1,5 W	490 N	Factory sealed cable, 3 x 1 mm ² , 5 meters	770 gr	7F0401

TECHNICAL SPECIFICATIONS		
Marking:	II 3G Ex ec IIC T6 Gc II 3D Ex tc IIIC T80°C Dc	
Certificate:	Declaration of Conformity	
Standards applied:	EN 60079-0:2018, EN 60079-7:2015 / A1:2018 and EN 60079-31:2014	
Supply voltage:	24V AC/DC ± 10%	
Magnet diameter:	50 mm	
Mounting spacing:	Floor/ceiling mounting: 150 mm, wall mounting: 175 mm	
Activation time:	100%	
Material:	Black plastic anchor plate and housing, magnet nickel plated	
Ingress protection level:	IP65 according to EN 60529	
EN 1155 corrosion class:	3 (High resistance to corrosion)	
Connection:	Factory sealed cable, 3 x 1 mm2, length 5 meters	
Ambient temperature:	-25°C to +50°C	

ACCESSORIES			
Туре:	Model:	Size:	
AR-030/002	Anchor plate (standard)	Ø 55 x 18 mm, ± 20°	
AR-030/003	Anchor plate with angle adjustment	Ø 55 x 50 mm, ± 60°	

CTTV CAMERA AKONDIA 749-V1

Zones 1, 2, 21, 22

CAMERAS

ZONES 1, 2 (gas) & 21, 22 (dust)

MISCELLANEOUS DEVICES 😨 🕇



AkONDIA 749-V1 is a low resolution, cost-effective ATEX video surveillance and security camera. Perfect for monitoring processes or spaces that do not require a high video resolution and prioritize equipment costs.

Another key feature of the AkONDIA 749-V1 is its physical robustness, allowing it to operate in demanding industrial environments.

Ex d cast aluminum enclosure and tempered glass window.

Suitable for installation in zones 1, 2, 21 and 22.



	ITEM REFERENCES	
Designation:	Cable gland:	Item No.:
CCTV Camera AkONDIA 749-V1 - L	Brass for armored cable	4D0801
CCTV Camera AkONDIA 749-V1 - LT	Nickel-plated brass for armored cable	4D0802

	TECHNICAL SPECIFICATIONS
Marking:	II 2G Ex d IIC T6 Gb II 2D Ex tb IIIC T85℃ Db
Certificate:	EU-Type Examination Certificate
Operating temperature:	-20°C to +40°C
Housing:	SOF 57N. Aluminum light alloy. External Epoxy RAL7000
Ingress protection:	IP66
Weight:	1,5 kg approx.
Terminals:	4 x 1,5mm ² + PE 1,5mm ²
Camera:	CCTV (color)
Power supply:	12VDC
Current consumption:	68mA
Resolution:	1Mpx
Horizontal resolution:	420TVL
Minimum illumination:	0,2Lux
Compression:	H264
Lens angle:	135°
Maximum signal transmission distance without signal loss:	12m
Pin description:	PE: general system grounding Y: video signal GND: video ground (here would go the ground of the RCA or BNC connectors) -: power supply negative +: power supply positive
Cable entries:	1x3/4" cable gland for armoured cable (13,2-20,5mm)

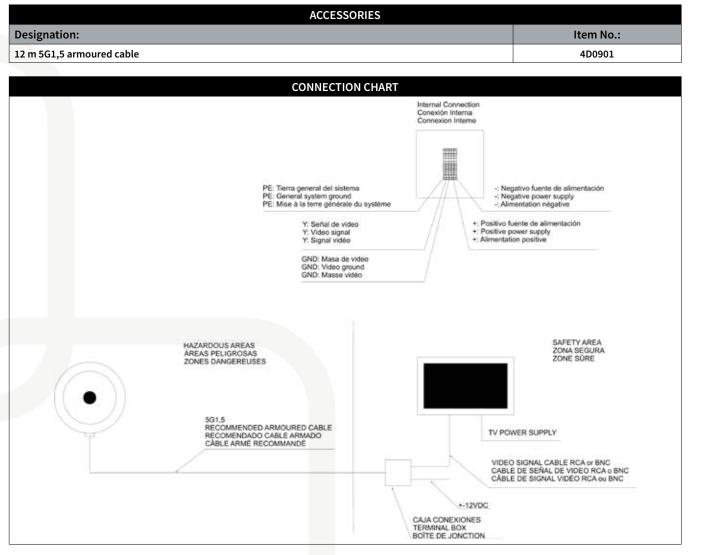
CTTV CAMERA AKONDIA 749-V1

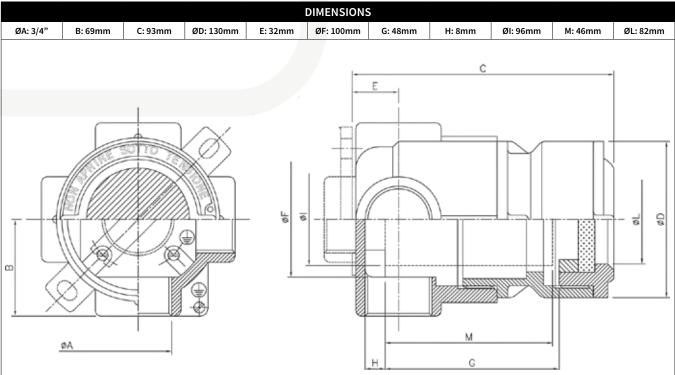
Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

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MISCELLANEOUS DEVICES





Zones 1, 2, 21, 22

Full catalogue available on our website: www.inpratex.com

MISCELLANEOUS

ZONES 1, 2 (gas) & 21, 22 (dust)

The EX118R electric strike is designed for use on fire doors in hazardous areas. It is equipped with monitoring contact as standard. The FaFix radius keeper can be adjusted by 3 mm. The connecting cable is 10 metres long.

- For use in potentially explosive atmospheres, e.g. laboratories, chemical plants, mills, paint finishing plants

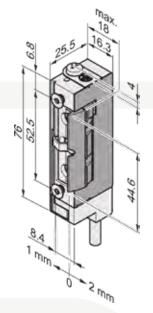
- Universal installation position, vertical and horizontal
- Holding force of 9,000 N - Monitoring contact as standard
- The door strike must only be operated using the following individual parts: Power supply14.8 V, 160 mA
 EX-I switching amplifier type 9170/11-11-11S

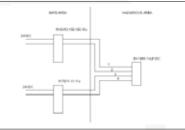


EU-Type Examination Certificate

ITEM REFERENCES	
Designation:	Item No.:
EX118RZ91 9143/10-156-160-10S 9170/11-11-11S	7F0303

TECHNICAL SPECIFICATIONS ELECTRIC STRIKE EX138RZ91		
Marking:	EX II 2G EX IB IIB T4 GB II 2D EX IB IIIC 95 °C DB	
Certificate:	EU-Type Examination Certificate	
Operating temperature:	T4: -20°C to +50°C	
Adjustable keeper (FF, FaFix®):	Yes	
Monitoring contact (RR):	Yes	
Diode (05):	Yes	
Fail-unlocked:	Yes / 123 mA	
Continuous duty:	14,8 V DC	
Certified in compliance with:	DIN EN 14846:2008	
Load cycles for in-plant test:	250000	
Installation position:	Vertical and horizontal	
Break-in resistance:	9000 N	
Length:	76 mm	
Connecting cable:	10 m	
Suitable for fire doors:	Yes	
Width:	18 mm	
FaFix [®] adjustment range:	3 mm	
Depth:	25,5 mm	
Latch bolt engaging depth:	6 mm	
Scope of delivery:	Delivery without striking plate with connecting cable	
DIN direction:	Universal	





TECHNICAL SPECIFICATIONS	POWER SUPPLY 9143/10-156-160-10S	Ex i SWITCHING REPEATER 9170/11-11-11S
Marking:	II 3(2)G Ex nA [ib Gb] IIC/IIB T4 Gc II (2)D [Ex ib Db] IIIC I (M2) [Ex ib Mb] I	Ex ia Ga] IIC II (1)D [Ex ia Da] IIIC II (1)D [Ex ia Da] IIIC
Certificate:	EU-Type Examination Certificate	EU-Type Examination Certificate
Power supply:	24 V AC / DC	24 V DC
Nominal voltage U _N :	12.5 14.7 V	
Max. nominal current I _N :	140 mA	
Output / channel:		2 change-over contacts

ELECTRIC STRIKE EX138R

Zones 1, 2, 21, 22

MISCELLANEOUS

ZONES 1, 2 (gas) & 21, 22 (dust)

Full catalogue available on our website: www.inpratex.com

CE

EU-Type Examination Certificate



The EX138R electric strike is designed for use on doors in explosive atmospheres. It is equipped with monitoring contact as standard. The FaFix radius keeper can be adjusted by 3 mm. The connecting cable is 10 metres long.

- For use in potentially explosive atmospheres, e.g. laboratories, chemical plants, mills, paint finishing plants

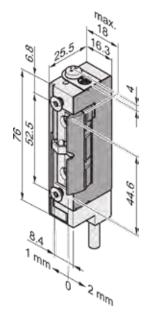
- Universal installation position, vertical and horizontal
 Holding force of 9,000 N
- Monitoring contact as standard

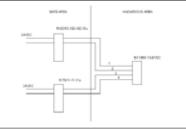
The door strike must only be operated using the following individual parts: - Power supply14.8 V. 160 mA

Power supply14.8 V, 160 mA
EX-I switching amplifier type 9170/11-11-11S

ITEM REFERENCES	
Designation:	Item No.:
EX138RZ91 9143/10-156-160-10S 9170/11-11-11S	7F0302

TECHNICAL SPECIFICATIONS ELECTRIC STRIKE EX138RZ91		
Marking:	II 2G Ex ib IIB T4 Gb II 2D Ex ib IIIC 95 °C Db	
Certificate:	EU-Type Examination Certificate	
Operating temperature:	T4: -20°C to +50°C	
Adjustable keeper (FF, FaFix®):	Yes	
Monitoring contact (RR):	Yes	
Diode (05):	Yes	
Fail-unlocked:	Yes / 123 mA	
Continuous duty:	14,8 V DC	
Certified in compliance with:	DIN EN 14846:2008	
Load cycles for in-plant test:	250000	
Installation position:	Vertical and horizontal	
Break-in resistance:	9000 N	
Length:	76 mm	
Connecting cable:	10 m	
Suitable for fire doors:	No	
Width:	18 mm	
FaFix® adjustment range:	3 mm	
Depth:	25,5 mm	
Latch bolt engaging depth:	6 mm	
Scope of delivery:	Delivery without striking plate with connecting cable	
DIN direction:	Universal	





TECHNICAL SPECIFICATIONS	POWER SUPPLY 9143/10-156-160-10S	Ex i SWITCHING REPEATER 9170/11-11-11S
Marking:	II 3(2)G Ex nA [ib Gb] IIC/IIB T4 Gc II (2)D [Ex ib Db] IIIC I (M2) [Ex ib Mb] I	II (1)G [Ex ia Ga] IIC II (1)D [Ex ia Da] IIIC
Certificate:	EU-Type Examination Certificate	EU-Type Examination Certificate
Power supply:	24 V AC / DC	24 V DC
Nominal voltage U _N :	12.5 14.7 V	
Max. nominal current I _N :	140 mA	
Output / channel:		2 change-over contacts

Zones 0, 1, 2

nn

MISCELLANEOUS

ZONES 0, 1, 2 (gas)

ATEX certified portable gas detector that ensures constant protection against toxic gas in the harshest working environments. Whether it's the hottest or the coldest environment, the Single Gas Clip is designed and tested to provide worker safety in the harshest working conditions.

- Unmatched sensor reliability for H₂S, CO or O₂
- Adjustable alarm set points
- Real-time gas reading capability
- \bullet 0.1 ppm resolution for $\rm H_2S$ sensor and display
- Two-way IR comms for event downloads, bump tests detector configuration and firmware updates
- Programmable unique 6 digit detector identification
- Simple-to-use one-button operation
- Bump Test notification and confirmation when intervals are set
- Calibration notification and confirmation when intervals are set
- No hidden service charges or maintenance fees
- Lightweight & durable clamps on tight with alligator clip











ITEM REFERENCES				
Designation:	Description:	Gas:	Temperature:	Item No.:
SGC-H Single Gas Clip H ₂ S	Portable gas detector for Hydrogen Sulfide (H ₂ S)*	H ₂ S Measuring range: 0-100 ppm Low alarm limit: 10 ppm - High alarm limit: 15 ppm	-40°C to +50°C	14A0101
SGC-C Single Gas Clip CO	Portable gas detector for Carbon Monoxide (CO)*	CO Measuring range: 0-300 ppm Low alarm limit: 35 ppm - High alarm limit: 200 ppm	-40°C to +50°C	14A0102
SGC-O Single Gas Clip O ₂	Portable gas detector for Oxygen (O ₂)*	O2 Measuring range: 0-30% by vol. Low alarm limit: 19.5% - High alarm limit: 23.5%	-35°C to +50°C	14A0103

*All versions include calibration cap

TECHNICAL SPECIFICATIONS		
Marking:	😥 II 1G Ex ia IIC T4 Ga	
Certificate:	EU-Type Examination Certificate	
Operating temperature:	H ₂ S: -40°C to +50°C CO: -40°C to +50°C O ₂ : -35°C to +50°C	
Humidity:	5% to 95% RH (non-condensing)	
Battery Life:	24 months of operation / 2 minutes of alarm per day	
Alarms:	Visual, vibrating & audible (minimum 95 dB). Detector life countdown (EOL), Low, High & Over limit (OL)	
LEDs:	4 red alarm bar LEDs	
Display:	High viewing angle Alphanumeric Liquid Crystal Display	
Logs:	25 Events - newer events replace older events	
Tests:	Full function self-test upon activation and every 20 hours. Continuous automatic battery tests	
Ingress protection:	IP 67	
Weight:	76g	
Dimensions:	85 x 50 x 28 mm	
Sensor Type:	Single plug-in electrochemical cell	
User Options:	User ID, Low Alarm, High Alarm, Calibration Interval, Bump Interval, Self-Test Interval, Calibration Gas, Display sensor/life remaining, Bump Due LED	

MULTI GAS CLIP SIMPLE PLUS

Zones 0, 1, 2

MISCELLANEOUS

ZONES 0, 1, 2 (gas)

ATEX certified portable 4 gas detector that ensures constant protection against toxic gas in the harshest working environments. Reliably test for hydrogen sulfide (H_2S), carbon monoxide (CO), oxygen (O_2) and combustible gases (LEL) with this simple-to-use and simple-to-maintain detector. Just turn it on and have worry free assurance of protection against toxic gases 24/7 for 3f ull years.

- Operates for 3 years continuously with no charging
- Detects combustible gases (LEL), hydrogen sulfide (H₂S), carbon monoxide (CO) & oxygen (O₂)
- Routine calibrations not necessary saving test gas & downtime
- Infrared LEL sensor does not require oxygen to detect gas
- Low maintenance cost infrared LEL sensor is immune to poisons
- Simple-to-use one-button operation & large, easy-to-read screen
- Lightweight & durable alligator clip clamps on tight

All detectors are charged and calibrated during manufacturing. Bump testing before each use is advised.











	ITEM REFERENCES			
Designation:	Description:	Gases:	Temperature:	Item No.:
Multi Gas Clip Simple Plus	Non-charging infrared 3 year 4 gas detector for H ₂ S, CO, O ₂ & LEL	H ₂ S - 0 - 100 ppm (0.1 ppm increments) CO - 0 - 500 ppm (1 ppm increments) Combustible (LEL) - 0 - 100% LEL (0.1% increments) O ₂ - 0 - 30% vol. (0.1% increments)	-40°C to +50°C	14B0101

Included with detector: calibration cap, calibration certificate & Quick Start Guide

TECHNICAL SPECIFICATIONS		
Marking:	😥 II 1G Ex ia IIC T4 Ga	
Certificate:	EU-Type Examination Certificate	
Operating temperature:	-40°C to +50°C	
Humidity:	5% to 95% RH (non-condensing)	
Battery Life:	1095 Days continuous (based on avg. of 1 minute of alarm/day)	
Alarms:	Visual, vibrating & audible (minimum 95 dB). Low, High, STEL, TWA & OL (Over Limit)	
LEDs:	4 red alarm bar LEDs Yellow back-light (activated on button press) Red back-light (activated on alarm condition) Yellow maintenance notification LED	
Display:	High viewing angle alphanumeric Liquid Crystal Display (LCD)	
Logs:	50 Bump tests, 50 events, 50 calibrations. Continuous 1 second data logging (typical capacity > 2 months)	
Tests:	Full function self-test upon activation. Sensors, battery and circuitry tests run continuously	
Ingress protection:	IP68	
Weight:	220 g	
Dimensions:	120.65 x 69.85 x 31.75 mm	
Sensor Type:	H ₂ S, CO & O ₂ : Plug-in electrochemical cell Combustible (LEL): Soldered infrared (IR)	
User Options:	Custom user message, TWA/STEL intervals, Languages (6), Latching alarms, Self-test lock, Bump test interval, Low/High alarm, Maintenance notification, TWA method, Sensor enable/disable, SAFE display, Dock lock, Calibration gas concentra- tion, Calibration interval, TWA/STEL alarm, % LEL or % CH ₄ by-vol	

Zones 2

MISCELLANEOUS

ZONES 2 (gas)

The AR-051 explosion-safe air conditioners are based on the Toshiba RAV range and are made to safely ensure a good climate in an area where a release of gas, vapor or mist could possibly cause an explosive atmosphere (Zone 2). The units are widely used in office spaces, offshore temporary living quarters, crane cabins and at the storage of chemicals and flammable substances.

The AR-051 air conditioners are explosion-safe and certified in accordance with European directive 2014/34/EU (ATEX 114) and are CE marked. The systems can consist of a combination of explosion-safe and non-explosion-safe units, depending on the zoning of the area where the units are placed. During the conversion of the units to explosion-safe, the greatest possible attention is given to the maintainability and ease with which the units can be installed. The functionality remains completely intact.







ITEM REFERENCES	
Designation:	Item No.:
AR-051/0713 CS	13A0101

	TECHNICAL SPECIFICATIONS
Marking:	LI 3G Ex ec h ic mc IIC T3 Gc (external unit) LX II 3G Ex ec h ic IIC T4 Gc (internal unit) LX II 3G Ex ic IIC T6 Gc (infra-red remote control)
Certificate:	Declaration of Conformity
Standards applied:	Conformity: European directive 2014/34/EU (ATEX 114) Standards: EN 60079-0:2018, EN 60079-7:2015 / A1:2018, EN 60079-11:2012, EN 60079-18:2015 / A1:2017, EN 80079-36:2016 y EN 80079-37:2016
Capacity:	6,7 kW nominal cooling 7,7 kW nominal heating
Power supply:	230 V / 1 ph / 50 Hz
Power consumption:	451 kWh cooling/yr 1828 kWh heating/yr
Fuse rating:	16 A
Air flow:	720 / 1.200 m3/h
Dimensions:	Outdoor unit (H x W x D): 550 x 780 x 290 mm Indoor unit (H x W x D): 256 x 1000 x 750 mm
Weight:	Outdoor unit: 44 kg Indoor unit: 30 kg
Piping size:	3/8" x 5/8"
Max. piping length:	30 m
Refrigerant:	R32

AR-051 AIR CONDITIONER - WALL-MOUNTED

Zones 2

MISCELLANEOUS

ZONES 2 (gas)

Explosion-safe air conditioning split system, consisting of an outdoor unit and a wall-mounted indoor unit with infra-red remote control, all suitable for use in hazardous areas classified as zone 2. The unit is based upon the Toshiba RAV-GM range of compact industrial air conditioners, suitable for 24/7 use. The units are widely used in office spaces, offshore temporary living quarters, crane cabins and at the storage of chemicals and flammable substances.

The AR-051 air conditioners are explosion-safe and certified in accordance with European directive 2014/34/EU (ATEX 114) and are CE marked. The systems can consist of a combination of explosion-safe and non-explosion-safe units, depending on the zoning of the area where the units are placed. During the conversion of the units to explosion-safe, the greatest possible attention is given to the maintainability and ease with which the units can be installed. The functionality remains completely intact.



ITEM REFERENCES	
Designation:	Item No.:
AR-051/0711 C	13A0102

	TECHNICAL SPECIFICATIONS
Marking:	LI 3G Ex ec h ic mc IIC T3 Gc (external unit) LX II 3G Ex ec h ic IIC T4 Gc (internal unit) LX II 3G Ex ic IIC T6 Gc (infra-red remote control)
Certificate:	Declaration of Conformity
Standards applied:	Conformity: European directive 2014/34/EU (ATEX 114) Standards: EN 60079-0:2018, EN 60079-7:2015 / A1:2018, EN 60079-11:2012, EN 60079-18:2015 / A1:2017, EN 80079-36:2016 y EN 80079-37:2016
Capacity:	6,7 kW nominal cooling / 22.900 BTU/h nominal cooling 7,7 kW nominal heating / 26.300 BTU/h nominal heating
T range cooling:	-15 46 °C
T range heating:	-1524°C
Power supply:	220 - 240 VAC, 50 Hz and 220 - 230 VAC, 60 Hz
Power consumption:	2,61 kW
Fuse rating:	16 A
Air flow:	289 / 1.040 m³/h
Dimensions:	Outdoor unit (H x W x D): 550 x 780 x 290 mm Indoor unit (H x W x D): 320 x 1050 x 250 mm
Weight:	Outdoor unit: 44 kg Indoor unit: 14 kg
Piping size:	3/8" x 5/8"
Max. piping length:	30 m
Refrigerant:	R32
Remark:	An explosion-safe connection box with a depth of 100 mm will be mounted at the front or side of the outdoor unit. This connection box is provided with two ATEX cable glands; one M25 cable gland for the power cable and one M20 cable gland for the connection cable to the indoor unit

AR-051 SPLIT AIR CONDITIONER - NON EX OUTDOOR UNIT

Zones 2

Full catalogue available on our website: www.inpratex.com

MISCELLANEOUS

ZONES 2 (gas)

Air conditioning split system, consisting of a standard, non-explosion-safe outdoor unit and an explosion-safe wall-mounted indoor unit with infra-red remote control, suitable for use in hazardous areas classified as zone 2.

The unit is based upon the Toshiba RAV-GM range of compact industrial air conditioners, suitable for 24/7 use.







ITEM REFERENCES		
Designation:	Item No.:	
AR-051/0711 C Non-Ex outdoor unit	13A0105	

	TECHNICAL SPECIFICATIONS
Marking:	Standard non-Ex (external unit) II 3G Ex ec h ic IIC T4 Gc (internal unit) II 3G Ex ic IIC T6 Gc (infra-red remote control)
Certificate:	Declaration of Conformity
Standards applied:	Conformity: European directive 2014/34/EU (ATEX 114) Standards: EN 60079-0:2018, EN 60079-7:2015 / A1:2018, EN 60079-11:2012, EN 60079-18:2015 / A1:2017, EN 80079-36:2016 y EN 80079-37:2016
Capacity:	6,7 kW nominal cooling / 22.900 BTU/h nominal cooling 7,7 kW nominal heating / 26.300 BTU/h nominal heating
T range cooling:	-15 46 °C
T range heating:	-15 24 °C
Power supply:	220 - 240 VAC, 50 Hz and 220 - 230 VAC, 60 Hz
Power consumption:	2,61 kW
Fuse rating:	16 A
Air flow:	289 / 1.040 m³/h
Dimensions:	Outdoor unit (H x W x D): 550 x 780 x 290 mm Indoor unit (H x W x D): 320 x 1050 x 250 mm
Weight:	Outdoor unit: 44 kg Indoor unit: 14 kg
Piping size:	3/8" x 5/8"
Max. piping length:	30 m
Refrigerant:	R32

AR-054 AIR CONDITIONER - WINDOW (COOLING ONLY)

Full catalogue available on our website: www.inpratex.com

MISCELLANEOUS

ZONES 2 (gas)

The explosion-safe AR-054 window air conditioners are made to safely provide a pleasant climate in an area that can contain an explosive atmosphere as a result of released gas. Due to the use of DC inverter technology, the window air conditioners meet the strict Ecodesign requirements laid down in the European directive 2009/125/EC. The offered solution is not only safe but also energy efficient.

No connections need to be made to the cooling system to install the compact window air conditioner and therefore there is no need to call in a specialized refrigeration technician. The mechanical and electrical installation of the unit is also extremely simple and can be accomplished quickly and efficiently.

The AR-054 air conditioners are explosion-safe and certified in accordance with European directive 2014/34/EU (ATEX 114) and are CE marked. The window air conditioners comply with the requirements for product category 3G and are suitable for use in Zone 2.







		ITEM REFERENCES		
Designation:	Capacity cooling:	Capacity range:	Air flow:	Item No.:
AR-054/030	2,75 kW	0,5 - 3,2 kW	310 / 350 / 380 m³/h	13A0103
AR-054/040	3,70 kW	0,6 - 4,0 kW	400 / 450 / 490 m³/h	13A0104

TECHNICAL SPECIFICATIONS			
Marking:	😥 II 3G Ex ec h ic mc IIC T3 Gc		
Certificate:	Declaration of Conformity		
Standards applied:	Conformity: 2014/34/EU (ATEX), 2014/30/EU (EMC) and Standards: EN 60079-0:2018, EN 60079-7:2015 / A1:201 A1:2017, EN 80079-36:2016 and EN 80079-37:2016	· · · · ·	
Ambient temperature:	-20°C to +45°C		
Operational temperature:	+18°C to +43°C		
Supply voltage:	230 VAC		
Mains frequency:	50 Hz		
Connection:	Fixed power cable 3 x 2.5 mm ² , 5 m		
Electric power:	AR-054/030: 0,81 kW	AR-054/040: 1,09 kW	
Fuse rating:	10 A		
Dimensions:	AR-054/030: (H x W x D) 375x 560 x 710 mm	AR-054/040: (H x W x D) 428x 660 x 700 mm	
Weight:	AR-054/030: 34 kg	AR-054/040: 46 kg	
SEER:	5,1		
Refrigerant:	R32		
Sound pressure:	45 / 47 / 49 dB(A)		
Remote control:	Infrared remote control supplied as standard		

OPTIONS		
Designation:	Description:	
AR-054/990	Blygold PoluAl XT coating of the heat exchanger fins for increased corrosion resistance	

Zones 22

MISCELLANEOUS

ZONES 22 (dust)

The ST-22 EX is a static dissipative / grounded industrial vacuum cleaner system, electrically operated for use in potentially explosive atmospheres classified ATEX zone 22 for dust. Suitable for combustible dusts such as carbon and aluminum.

This model guarantees total filtration and dissipation electrostatics.

Equipped with certified filters, indicator filter, safety cap and ATEX certified turbine.

- Multi-stage filtration
- Electrostatic dissipation
- Explosion-proof turbine for atex zone 22
- Conductive bags with safety closure
- Pcb prefilter and additional cartridge
- Large wheels with brakes



Suitable for:

- Combustible particles
- Combustible carbonaceous dusts (carbon black, charcoal, coal or coke dust)
- Flour, grain, wood, plastic and chemicals
- Up to 2 kg of conductive or metal dusts

This vacuum cleaner is designed for the recovery of dry materials only. Do not recover liquids.

ITEM REFERENCES				
Designation:	Power:	Voltage:	Cable lenght:	Item No.:
ST-22 EX	1000-1200 W max.	220-240 V / 50/60 Hz	10m	13C0101

TECHNICAL SPECIFICATIONS		
Marking:	🕼 II 3D Ex h tc IIIC T200°C Dc IP6X	
Certificate:	Declaration of Conformity	
Amperage:	5 A	
Air Flow:	210 m³/h	
Vacuum Pressure:	2470 mm H ₂ 0	
Sound Level:	72 dB(A)	
Suction Inlet:	60 mm	
Accessories diameter:	38/32 mm	
Cart Type:	4 Wheel Dolly (4W)	
Tank capacity:	30 l	
Length:	50 cm	
Width:	50 cm	
Height:	98 cm	
Weight:	30 kg	
Cable length:	10m (plug not included)	

CYCLONE AIR MOVER

Zones 1, 2

MISCELLANEOUS

Crab

ZONES 1, 2 (gas)

The ATEX CYCLONE Air Mover is a high-power portable ventilation fan designed for safe and reliable extraction of dangerous vapors in hazardous environments. With the use of interchangeable duct adaptors one unit can be configured for 30cm and 40cm applications.

The compact design and versatile construction provides increased mobility and performance in the most rigorous conditions. With maximum airflow of 5179 m3/hr, this Air Mover safeguards you when it matters most. Supplied with Marechal plug.

- Configurable for use with 30cm & 40cm ducting
- High airflow
- Operates on 50 or 60Hz
- Ergonomic design
- Easy carry handles
- Integral cable storage
- Stackable
- Used as blower or exhauster
- Tough and durable
- Lightweight
- Anti-static polyethylene housing









ITEM REFERENCES				
Designation:	Adaptor:	Cable lenght:	Voltage:	Item No.:
SAF35/230-00/MAR/10HRE	-	10m HOFR	230 VAC	13B0101
SAF35/230-30/MAR/10HRE (Redy for ducting)	30cm	10m HOFR	230 VAC	13B0102

	TECHNICAL SPECIFICATIONS
Marking:	😥 II 2G Ex db eb h IIB+H2 T4 Gb
Certificate:	EU-Type Examination Certificate
Operational temperature:	-40°C to +55°C
Run time:	Continuous
Motor protection:	Thermal cut-out
Fan casing:	Anti-static polyethylene. Flame retardant & chemical resistant
Cable lenght:	10m (or as required)
Voltage options:	230VAC (50/60Hz)
Start up current:	50Hz: 12A, 60Hz: 12A
Run current:	50Hz: 3A, 60Hz: 5A
Dimensions:	458mm (l) x 349mm (w) x 590mm (h) 458mm (l) x 498mm (w) x 590mm (h) (with adaptors)
Weight:	22kg (without cable)
Noise level @ 1m:	78dBA – 50Hz 81dBA – 60Hz
Plug:	Marechal 1P+N+E (ATEX)

ACCESSORIES	
Designation:	Item No.:
Antistatic Ducting 30cm ø x 5m Single Strap	SAFD30/05-EX/1S
Antistatic Ducting 30cm ø x 10m Single Strap	SAFD30/10-EX/1S

Zones 2

MISCELLANEOUS

ZONES 2 (gas)

Installed inside an Ex p stainless steel enclosure, standard label printers can be used directly in hazardous areas. Already printed labels are extracted from the printer by means of an additional door in the front of the enclosure. The printer doesn't need to be switched off during this procedure. A window in the frontdoor and the additional lamp installed inside make it easy to read the printed labels. The enclosure also has a door on the side. The printer is installed on a sliding system, which makes it easy to carry out inspections and to apply new labels.





The Ex p systems works thanks to an overpressure inside the enclosure compared to the surrounding pressure.

After a pre-cleaning phase, in which, if possible, existing gases are expelled, the controller switches on the installed internal devices.



ITEM REFERENCES	
Designation:	Item No.:
Ex pz printer enclosure	15A0101

	TECHNICAL SPECIFICATIONS			
Marking:	😥 II 3G Ex pzc IIC T4 X Gc			
Certificate:	Declaration of Conformity			
Operating temperature:	-20°C to +40°C			
Design:				
Material:	Stainless steel 1.431			
Dimensions:	450x650x580mm			
Ingress protection:	IP65			
Hinged front door with additional door w	vith window			
Remark: maximum time for label output:	: 15 sec.			
External electrical devices (in enclosure o	loor):			
1 Ex d Signal lamp RED (Bypass)				
1 Ex d key switch 1NO/1NC (Bypass)				
Internal devices on backside mounting p	late:			
1 Ex pz/pD Controler Type A42-M2 230VA	C for monitoring Ex p enclosures in Zones 2,22			
Marking:	😥 II 3G Ex nA [ic] [pz] IIC T4 Gc			
Operating temperature:	-20°C to +60°C			
Rated voltage:	230 VAC			
With Ex i panel with display 1 socket for	printer connection 1 Ex e terminal box for internal/external wiring			
1 removable internal plate on slides for p	rinter installation (printer not supplied). Space available: 350x450x450mm approx.			
External connections (on back side):				
2 plastic cable glands M20x1,5 (4-13 mm)				
1 Ex px/pD Pressure Control Device Type A42-P1				
1 Ex p Inlet kit 230 VAC				
Including: Air pressure regulator R 1/4" Ex digital solenoid valve 3/8 with exhaust flow Ex valve switch AC 220-240V 1 Extermal earth stud				
All external devices marked with Resopal	labels			
Control box completely wired				

ATEX WARNING SIGN

Zones 0, 1, 2, 20, 21, 22

Full catalogue available on our website: www.inpratex.com

MISCELLANEOUS

ZONES 0, 1, 2 (gas) & 20, 21, 22 (dust)

Ex Warning Sign.

Manufactured in glasspack, semirigid plastic material suitable for outdoor and indoor mounting.

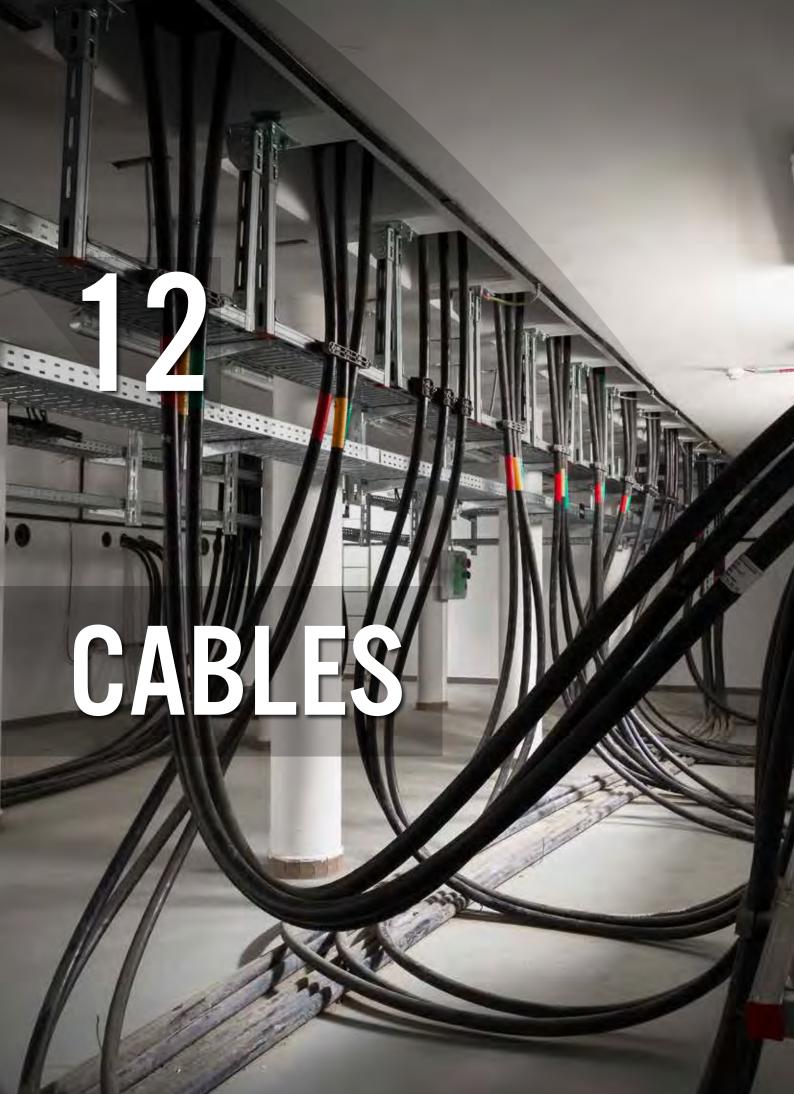






ITEM REFERENCES	
Designation:	Item No.:
Ex Warning Sign	12A0101

TECHNICAL SPECIFICATIONS				
Material:	Glasspack			
Certificate:	UNE RD 485/97			
Colour:	Yellow / Black on White background			
Thickness:	0,7 mm			
Dimensions:	210x210 mm			





Inpratex provides a specific range of industrial cables suitable for installation in potentially explosive atmospheres.

High quality and advanced technology flexible cables and armoured cables, ideal for national and international markets.

CABLE EB VV-F 300/500V CABLE H07RN-F 450/750V CABLE RZ1MZ1-K 0.6/1KV EARTHING AND GROUNDING CABLES

Our product ranges are constantly updated on our website: www.inpratex.com

CABLE EB VV-F 300/500V

ABLES 🙊 15

CABLES FOR USE IN ATEX ZONES

Flexible cable for fixed installation, suitable for intrinsic safety circuits in electrical installations, control, signal and measurement regulation, machine tools, production machines, etc.

Highly flexible insulation and sheath, especially suitable for facilities with complex layouts.





In compliance with DIN standard EN 60079-14, VDE 0165 Part 1. Electrical cables for intrinsic safety circuits.

STANDARDS / GENERAL FEATURES

Flame retardant according to EN60332-1-2 / IEC60332-1-1 Mineral oil resistance according to UNE 21031 TM5

Good resistance to chemicals

Water resistant in case of occasional contact with water

Suitable for outdoors

STRUCTURE

Annealed electrolytic copper, Class 5 flexibility according to EN60228

PVC insulation, type PVC/A, according to UNE 21.031 p-1

Ductr identification HD308 (Colours) or EN50334 (with black numbering)

(Also available on request without a grounding Ductr))

Stranding in concentric layers

Outer sheath made of PVC and acrylic rubber, type TM5, according to UNE 21031-13

Blue colour

TECHNICAL FEATURES

Rated voltage 300V/500V Test voltage 2,000V C.A. for 5 min.

Temperature range -30°C to 70°C in fixed installation, -5°C to 70°C in mobile installations.

5 x Ø minimum bending radius

EB VV-F 300/500V					
Item No.:	Cond. x Section mm ² :	Outer D. mm:	Cable Weight kg/km:	Resistance Ω/km at 20°C:	Intensity (30°C) A (exposed):
10A100600020160200	2 x 0,5	5,80	42	39,0	3
10A100600030160200	3 G 0,5	6,20	51	39,0	3
10A100600040160200	4 G 0,5	7,20	69	39,0	3
10A100600050160200	5 G 0,5	8,20	89	39,0	3
10A100600060160200	6 G 0,5	9,00	111	39,0	3
10A100600070160200	7 G 0,5	9,20	115	39,0	3
10A100600080160200	8 G 0,5	9,90	132	39,0	3
10A100600100160200	10 G 0,5	11,90	185	39,0	3
10A100600120160200	12 G 0,5	12,30	203	39,0	3
10A100600140160000	14 G 0,5	12,60	219	39,0	3

CABLE EB VV-F 300/500V

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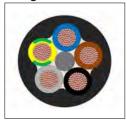
EB VV-F 300/500V					
Item No.:	Cond. x Section mm ² :	Outer D mm:	Cable Weight kg/km:	Resistance Ω/km at 20°C:	Intensity (30°C) A (exposed):
10A100600160160200	16 G 0,5	13,30	246	39,0	3
10A100600200160200	20 G 0,5	14,50	296	39,0	3
10A100600240160200	24 G 0,5	16,50	376	39,0	3
10A100600250160200	25 G 0,5	16,50	382	39,0	3
10A100600300160200	30 G 0,5	17,20	425	39,0	3
10A100600370160200	37 G 0,5	18,80	512	39,0	3
10A100 <mark>60040</mark> 0160200	40 G 0,5	19,20	530	39,0	3
10A100600500160200	50 G 0,5	21,30	680	39,0	3
10A100600610160200	61 G 0,5	23,20	780	39,0	3
10A100600020180200	2 x 0,75	6,60	56	26	6
10A100600030180200	3 G 0,75	6,80	65	26	6
10A100600040180200	4 G 0,75	7,60	83	26	6
10A100600050180200	5 G 0,75	8,60	105	26	6
10A100600060180200	6 G 0,75	9,70	132	26	6
10A100600070180200	7 G 0,75	9,90	138	26	6
10A100600080180200	8 G 0,75	10,40	158	26	6
10A100600100180200	10 G 0,75	12,20	212	26	6
10A100600120180200	12 G 0,75	12,60	234	26	6
10A100600140180200	14 G 0,75	13,40	268	26	6
10A100600160180200	16 G 0,75	14,20	302	26	6
10A100600200180200	20 G 0,75	15,50	366	26	6
10A100600240180200	24 G 0,75	17,70	465	26	6
10A100600250180200	25 G 0,75	17,70	475	26	6
10A100600300180200	30 G 0,75	18,90	546	26	6
10A100600370180200	37 G 0,75	20,70	661	26	6
10A100600400180200	40 G 0,75	21,50	681	26	6
10A100600500180200	50 G 0,75	23,30	855	26	6
10A100600610180200	61 G 0,75	24,80	1.025	26	6
10A100600020190200	2 x 1	7,00	66	19,5	10
10A100600030190200	3 G 1	7,20	76	19,5	10
10A100600040190200	4 G 1	8,10	98	19,5	10
10A100600050190200	5 G 1	8,90	120	19,5	10
10A100600060190200	6 G 1	10,30	156	19,5	10
10A100600070190200	7 G 1	10,30	164	19,5	10
10A100600080190200	8 G 1	11,20	192	19,5	10
10A100600100190200	10 G 1	13,20	257	19,5	10
10A100600120190200	12 G 1	13,60	284	19,5	10
10A100600140190200	14 G 1	14,00	311	19,5	10
10A100600160190200	16 G 1	14,80	351	19,5	10
10A100600200190200	20 G 1	16,50	437	19,5	10
10A100600240190200	24 G 1	19,00	560	19,5	10
10A100600250190200	25 G 1	19,00	575	19,5	10
10A100600300190200	30 G 1	19,80	639	19,5	10
10A100600370190200	37 G 1	21,60	772	19,5	10
10A100600370190200	41 G 1		835	19,5	10
		22,80	1.100	-	10
10A100600500190200	50 G 1	25,90	1.100	19,5	10

CABLE H07RN-F 450/750V

CABLES FOR USE IN ATEX ZONES

Highly flexible cable suitable for installation in portable machines according to HD516, agricultural tools and machinery according to HD516, indoor and outdoor installations according to HD516, at premises at risk of fire or explosion according to ITC-BT29.





STANDARDS / GENERAL FEATURES According to construction standards UNE 21027-4

Flame retardant according to EN60332-1-2 / IEC60332-1-1

Oil resistance according to UNE-EN60811-2-1

Resistance to UV rays

Resistance to low temperatures

Resistance to water absorption

Resistance to abrasion

STRUCTURE

Annealed electrolytic copper, Class 5 flexibility according to EN60228

Rubber insulation type EI4

Ductr identification HD308 (Colours) or EN50334 (with black numbering + ground wire) (Also available on request without agrounding Ductr)

Stranding in concentric layers

Outer sheath made of thermoset (PCP) polychloroprene (PCP, type EM2)

Black colour

TECHNICAL FEATURES

Rated voltage 450/750V

Test voltage 2,500V C.A. for 5 min.

Temperature range -40°C to 80°C in fixed installation, -25°C to 60°C in mobile installation

Minimum bending radius: 6 x Outer diameter

Electrical resistance according to UNE 60228

H07RN-F 450/750V					
Item No.:	Cond. x Section mm ² :	Min. Outer D. mm:	Max Outer D. mm:	Cable Weight kg/km:	Min. Bend Radious mm:
10A120100020200000	2 x 1,5	8,5	11,0	135	66
10A120100030200000	3 G 1,5	9,2	11,9	165	71
10A120100040200000	4 G 1,5	10,2	13,1	200	79
10A120100050200000	5 G 1,5	11,2	14,4	240	86
10A120100070200000	7 G 1,5	14,0	17,5	385	105
10A120100120200000	12 G 1,5	17,6	22,4	516	134
10A120100190200000	19 G 1,5	20,7	26,3	800	158
10A120100240200000	24 G 1,5	24,3	30,7	882	184
10A120100250200000	25 G 1,5	25,1	25,9	920	155
10A120100010220000	1 x 2,5	6,3	7,9	72	47
10A120100020220000	2 x 2,5	10,2	13,1	195	79
10A120100030220000	3 G 2,5	10,9	14,0	235	84
10A120100040220000	4 G 2,5	12,1	15,5	290	93

CABLE H07RN-F 450/750V

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H07RN-F 450/750V					
Item No.:	Cond. x Section mm ² :	Min. Outer D. mm:	Max Outer D. mm:	Cable Weight kg/km:	Min. Bend Radious mm:
10A120100050220000	5 G 2,5	13,3	17,0	294	102
10A120100070220000	7 G 2,5	16,5	20,0	520	120
10A120100120220000	12 G 2,5	20,6	26,2	810	157
10A120100190220000	19 G 2,5	25,5	31,0	1.200	186
10A120100240220000	24 G 2,5	28,8	36,4	1.650	218
10A120100010230000	1 x 4	7,2	9,0	99	54
10A120 <mark>10002</mark> 0230000	2 x 4	11,8	15,1	270	91
10A120100030230000	3 G 4	12,7	16,2	320	97
10A120100040230000	4 G 4	14,0	17,9	395	107
10A120100050230000	5 G 4	15,6	19,9	485	119
10A120100070230000	7 G 4	21,0	21,8	681	131
10A120100010240000	1 x 6	7,9	9,8	130	59
10A120100030240000	3 G 6	14,1	18,0	360	108
10A120100040240000	4 G 6	15,7	20,0	475	120
10A120100050240000	5 G 6	17,5	22,2	760	133
10A120100010250000	1 x 10	9,5	11,9	230	71
10A120100030250000	3 G 10	19,1	24,2	880	145
10A120100040250000	4 G 10	20.9	26.5	1,060	159
10A120100050250000	5 G 10	22.9	29.1	1,300	175
10A120100010260000	1 x 16	10.8	13.4	320	80
10A120100030260000	3 G 16	21.8	27.6	1,090	166
10A120100040260000	4 G 16	23.8	30.1	1,345	181
10A120100050260000	5 G 16	26.4	33.3	1,680	200
10A120100010270000	1 x 25	12.7	15.8	450	95
10A120100040270000	4 G 25	28.9	36.6	1,995	220
10A120100050270000	5 G 25	32.0	40.4	2,470	242
10A120100010300000	1 x 35	14.3	17.9	605	107
10A120100030300000	3 G 35	29.3	37.1	1,910	223
10A120100040300000	4 G 35	32.5	41.1	2,645	247
10A120100050300000	5 G 35	37.0	45.0	2,810	270
10A120100010340000	1 x 50	16.5	20.6	825	124
10A120100040340000	4 G 50	37.7	47.5	3,635	285
10A120100050340000	5 G 50	40.0	50.8	4,050	305
10A120100010390000	1 x 70	18.6	23.3	1,090	140
10A120100040390000	4 G 70	42.7	54.0	4,830	324
10A120100010450000	1 x 95	20.8	26.0	1,405	156
10A120100040450000	4 G 95	48.4	61.0	6,320	366
10A120100010510000	1 x 120	22.8	28.6	1,745	172
10A120100040510000	4 G 120	53.0	66.0	6,830	396
10A120100010580000	1 x 150	25.2	31.4	1,887	188
10A120100040580000	4 G 150	58.0	73.0	8,320	438
10A120100010650000	1 x 185	27.6	34.4	2,274	206
10A120100040650000	4 G 185	64.0	80.0	9,800	480
10A120100010730000	1 x 240	30.6	38.3	2,304	230
10A120100040730000	4 G 240	72.0	91.0	12,800	546
10A120100010760000	1 x 300	33.5	41.9	2,880	251

CABLES FOR USE IN ATEX ZONES

Flexible high security cable for power distribution. In case of fire it does not emit toxic substances or corrosive gases, furthermore it does not spread fire, thus protecting public health and preventing damage to electronic equipment.



STANDARDS / GENERAL FEATURES

According to construction standards IEC60502

Flame retardant according to EN60332-1-2 / IEC60331-1-1

Fire retardant according to EN50266 / IEC60332-3

Halogen free according to EN50267-2-3 / IEC60754-2

Low smoke opacity according to EN50268 / IEC61034

Low gas corrosivity according to EN50267-2-3 / IEC60754-2

Good resistance to water impacts

Excellent mechanical strength

Suitable for indoors and outdoors

STRUCTURE

Bare electrolytic copper, Class 5 flexibility according to EN60228

Insulation made of cross-linked polyethylene (XLPE)

Conductor identification according to HD308 or EN50334 Bedding / Thermoset polyolefin inner sheath

Armor of galvanized steel wires, crosswound of copper tape if necessary

In case of unipolar cables, type RZ1MAZ1-K, armor is made of aluminum wires*

Minimum armor coverage of 90%

Thermoset polyolefin outer sheath

Green colour (black on request)

* Aluminum is used in the unipolar cases to avoid eddy currents that may overheat the cable.

TECHNICAL FEATURES

Test voltage 3,500V C.A. for 5 min.

Rated voltage 0,6/1kV

Temperature range -25°C to 70°C in fixed installation

Maximum conductor temperature 90°C (250°C in case of short-circuit)

Electrical resistance according to UNE 60228

Maximum allowable intensity according to HD516

Minimum bending radius: 10 x Outer diameter

CABLE RZ1MZ1-K 0.6/1KV - CCA-S1B,D1,A1

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		RZ1MZ1-K 0.6/1kV		
Item No.:	Cond. x section mm ² :	Outer D. mm:	Cable Weight kg/km:	Resistance Ω/km at 20°C:
10A133700020200500	2 x 1,5	12,9	290	13,30
10A133700030200500	3 G 1,5	13,4	300	13,30
10A133700040200500	4 G 1,5	14,1	350	13,30
10A133700050200500	5 G 1,5	15,8	391	13,30
10A133700070200500	7 G 1,5	16,5	475	13,30
10A133700080200500	8 G 1,5	17,4	535	13,30
10A133700100200500	10 G 1,5	19,4	578	13,30
10A133700120200500	12 G 1,5	19,7	640	13,30
10A133700160200500	16 G 1,5	21,2	775	13,30
10A133700240200500	24 G 1,5	25,3	1.005	13,30
10A133700300200500	30 G 1,5	26,8	1.418	13,30
10A133700440200500	44 G 1,5	33,2	2.582	13,30
10A133700020220500	2 x 2,5	13,8	341	7,98
10A133700030220500	3 G 2,5	14,3	410	7,98
10A133700040220500	4 G 2,5	15,1	474	7,98
10A133700050220500	5 G 2,5	16,8	502	7,98
10A133700070220500	7 G 2,5	17,6	568	7,98
10A133700080220500	10 G 2,5	21,6	738	7,98
10A133700100220500	12 G 2,5	22,1	854	7,98
LOA133700030230500	3 G 4	15,4	488	4,95
LOA133700040230500	4 G 4	16,4	573	4,95
LOA133700050230500	5 G 4	18,8	625	4,95
10A133700030240500	3 G 6	17,0	620	3,30
LOA133700040240500	4 G 6	18,6	799	3,30
10A133700050240500	5 G 6	21,5	870	3,30
10A133700040250500	4 G 10	21,0	995	1,91
10A133700050250500	5 G 10	21,8	1.085	1,91
10A133700040260500	4 x 16	24,6	1.480	1,91
LOA133700040260500	5 G 16	27,2	1.480	1,21
10A133700040270500 10A133700050270500	4 x 25 5 G 25	28,8	2.200	0,780
		31,8	2.520	0,780
10A133700040300500	4 x 35	30,5	2.680	0,554
10A133700040340500	4 x 50	35,2	3.450	0,386
10A133700030390500	3 x 70	37,3	4.050	0,272
10A133700040390500	4 x 70	42,1	4.680	0,272
RZ1MAZ1-K	1	12.0	217	2.20
10A133700010240500	1x6	12,0	217	3,30
10A133700010250500	1 x 10	12,8	265	1,91
10A133700010260500	1 x 16	13,6	336	1,21
10A133700010270500	1 x 25	15,6	469	0,780
LOA133700010300500	1 x 35	16,8	583	0,554
10A133700010340500	1 x 50	18,2	719	0,386
10A133700010390500	1 x 70	19,9	949	0,272
10A133700010450500	1 x 95	23,6	1.353	0,206
10A133700010510500	1 x 120	25,6	1.623	0,161
10A133700010580500	1 x 150	27,5	1.933	0,129
10A133700010650500	1 x 185	29,7	2.358	0,106
10A133700010730500	1 x 240	32,7	2.967	0,080

SPIRAL CABLE, STEEL (1 CORE)

ATEX GROUNDING



For use in hazardous areas according to EN 60079-14.

The steel spiral cables offer superior mechanical strength.

The cable withstands continuous daily use and is extremely resistant to acids, alkalis, mineral oils, greases and other chemicals due to its cable coating.

These spiral cables meet all requirements of the standards EN 60079-0 and EN 60079-14 and may be used accordingly in potentially explosive atmospheres.

The spiral cables are free of silicone.

The cable ends can be assembled with eyelets at no extra charge.



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		ITEM REFERENCES		
Designation:	Cable colour:	Core:	Block length:	Item No.:
1m straight cable	Green	Steel-core	-	A179008
3m spiral cable	Green	Steel-core	160 mm	A173019
5m spiral cable	Green	Steel-core	260 mm	A173020
10m spiral cable	Green	Steel-core	600 mm	A173021
1m straight cable	Green/Yellow	Steel-core	-	A173010
3m spiral cable	Green/Yellow	Steel-core	160 mm	A173022
5m spiral cable	Green/Yellow	Steel-core	260 mm	A173023
10m spiral cable	Green/Yellow	Steel-core	600 mm	A173024

TECHNICAL SPECIFICATIONS				
Cable type:	ST-Li2Y			
Cable colour:	Green or Green / Yellow			
Cross section:	4 mm ²			
Wire type:	Steel cable			
Ambient temperature:	-40°C+80°C			

SPIRAL CABLE, COPPER (1 CORE)

ATEX GROUNDING

The copper spiral cables offer extremely high flexibility. The copper core used consists of 226 individual copper strands, which minimize the risk of cable breakage. The cable coating protects well against acids, alkalis, mineral oils, greases and other chemicals.

These spiral cables meet all requirements of the standards EN 60079-0 and EN 60079-14 and may be used accordingly in explosive areas.

The spiral cables are free of silicone. The cable ends can be assembled with eyelets at no extra charge.

For use in hazardous areas according to EN 60079-14.





ITEM REFERENCES					
Designation:	Cable colour:	Cross section:	Block length:	Item No.:	
1m straight cable	Green/Yellow	4 mm ²	-	A179010	
1m spiral cable	Green/Yellow	4 mm ²	100 mm	A416106	
3m spiral cable	Green/Yellow	4 mm ²	600 mm	A416123	
5m spiral cable	Green/Yellow	4 mm ²	1000 mm	A416107	
10m spiral cable	Green/Yellow	4 mm ²	2000 mm	A416108	
1m spiral cable	Green/Yellow	2,5 mm ² (according to TRGS 727)	100 mm	A179013	
3m spiral cable	Green/Yellow	2,5 mm ² (according to TRGS 727)	600 mm	A416332	
5m spiral cable	Green/Yellow	2,5 mm ² (according to TRGS 727)	1000 mm	A416333	

TECHNICAL SPECIFICATIONS			
Cable type:	LIF11Y11Y, 226x0,15mm		
Cable colour:	Green / Yellow		
Cross section:	4 mm ² / 2,5 mm ²		
Wire type:	Copper		
Ambient temperature:	-40°C+80°C		

NOTES

Although the information in this catalog is presented in good faith and believed to be correct at the time of printing, Inpratex makes no representations or warranties as to the completeness or accuracy of the information. All corrections made after printing the catalogue, and the updated data sheets, will be displayed on our website www.inpratex.com.

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