





Polígono Industrial de Matsaria, 34 · 20600 Eibar (Guipúzcoa) · Spain Phone: (+34) 943 530 095 | (+34) 943 530 482 inpratex@inpratex.com

www.inpratex.com

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.









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, off-shore platforms, Oil&Gas, refineries, etc.

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

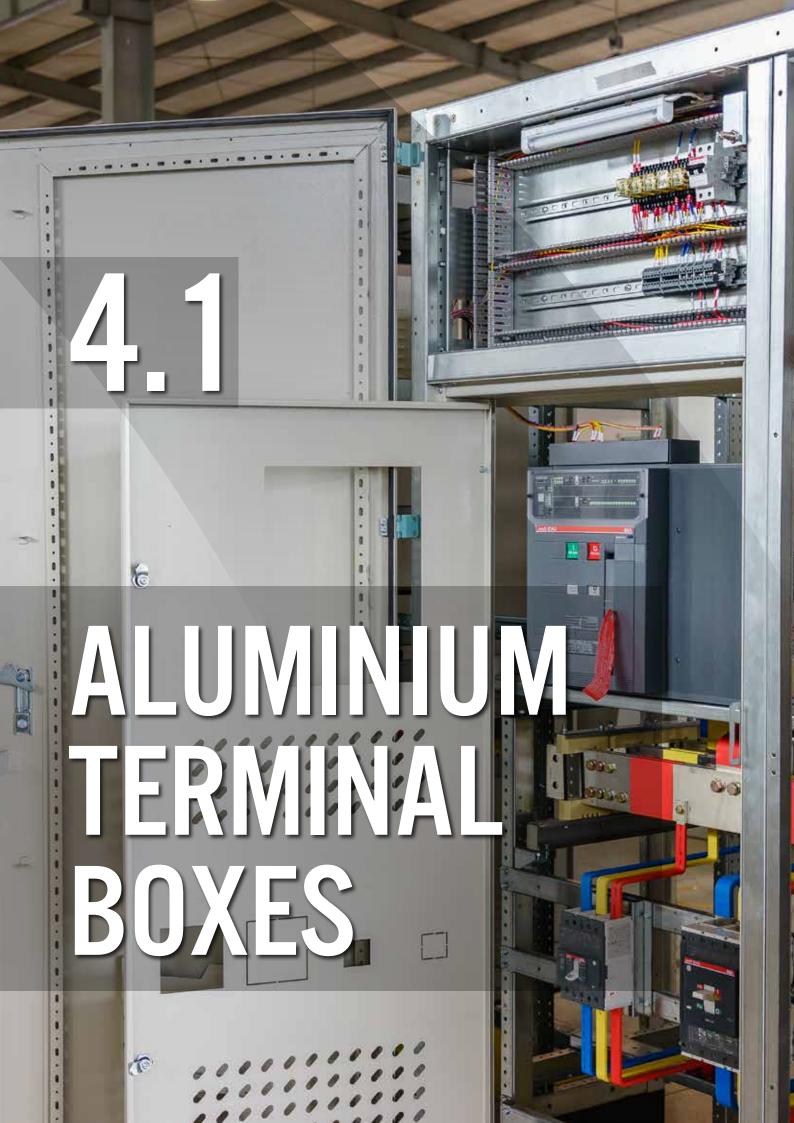
Plug and socket outlets and compact connectors, manufactured in high performance and completely waterproof polyamide, with built-in cutting power, suitable for use in Zones 1, 2 (gas) and 21, 22 (dust).

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

Earthing & Grounding devices.

4.1 - ALUMINIUM TERMINAL BOXES	6
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Our product ranges are constantly updated 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.



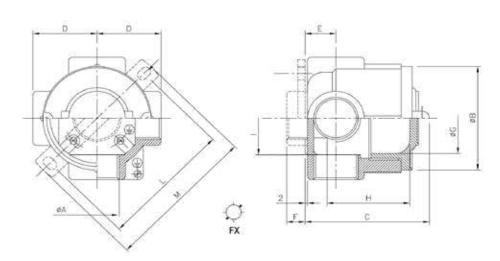




EU-Type Examination Certificate

	ITEM REFERENCES											
Designation:					nting s (mm):	Weight:	Item No.:					
	ØВ	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 Certifica	te		
Housing:	Housing: Aluminum light alloy (Aluminox on request)			
Operating temperature: -20°C to +40°C				
Terminals:	8 Terminals 2,5mm²			
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

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

ATEX JUNCTION BOXES

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



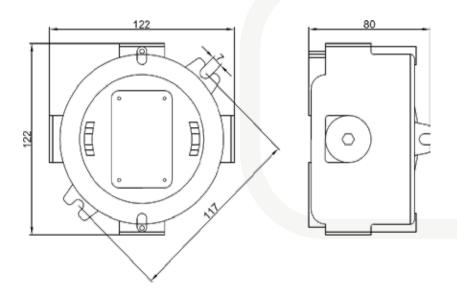
Explosion-proof Ex d junction boxes.

Manufactured in copper-free aluminium, powder coated surface.



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

TECHNICAL SPECIFICATIONS				
Marking:	II 2G Ex d IIC T6 Gb II 2D Ex t IIIC T80°C Db IP66			
Certificate:	EU-Type Examination Certificate			
Enclosure colour:	Yellow (RAL 1021)			
Operating temperature:	-60°C to +55°C			
Rated voltage:	Max. 500 VAC			
Rated current:	20A			
Terminals:	6 terminals 2,5mm ²			
Ingress protection:	IP66			



ALUMINIUM JUNCTION BOX - 2 ENTRIES / 2 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 e aluminium junction box for hazardous areas.

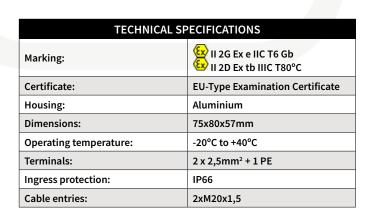
The box includes 2 cable entries and is equipped with 2x2.5mm² + 1 earth terminal.

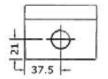




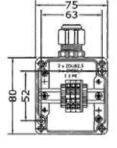


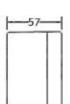
ITEM REFERENCES				
Designation:	Cable glands: Item No.:			
A21-E2-00806+2T2,5+2M20	Without cable glands	5A0806		
A21-E2-00806+2T2,5+2PM20	2 plastic cable glands (4-13 mm)			
A21-E2-00806+2T2,5+1PM20+1PAM20	1 plastic cable gland (4-13 mm) + 1 brass cable gland (9-15,5 mm)	5A0808		
A21-E2-00806+2T2,5+1PM20+1PANM20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

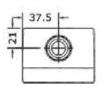




Side B: 1 tapped hole M20x1.5







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

ATEX JUNCTION BOXES

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



Ex e aluminium junction box for hazardous areas.

Manufactured in aluminum.

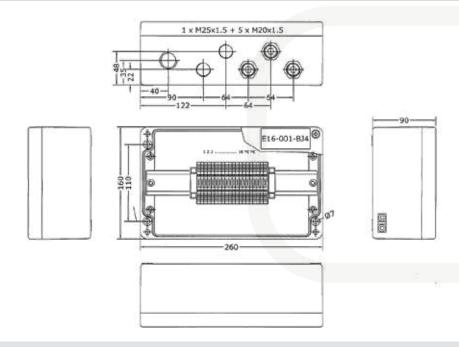
The box has 1xM25 and 5xM20 cable entries, and is equipped with 18 2.5mm² terminals + 2 ground terminals.





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

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

ATEX JUNCTION BOXES

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



Ex e aluminium junction box for hazardous areas.

Manufactured in aluminum.

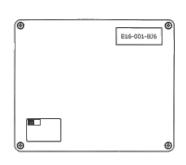
The box has 1xM25 and 9xM20 cable entries, and is equipped with 36 2.5mm² terminals + 6 ground terminals.

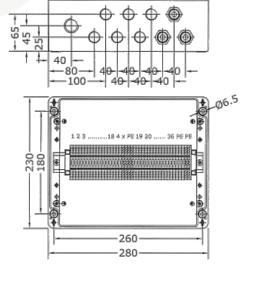


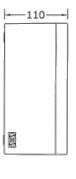


ITEM REFERENCES	
Designation:	Item No.:
A21-E2-02811+36T2,5+1M25+9M20	5A0813

	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







EX I ALUMINIUM JUNCTION BOX - 6 ENTRIES / 21 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 aluminium junction box for hazardous areas.

Manufactured in aluminum.

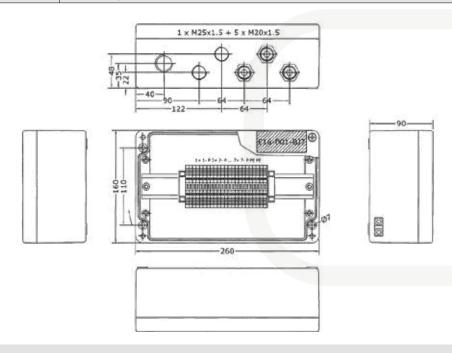
The box has 1xM25 and 5xM20 cable entries, and is equipped with 21 2.5mm² blue terminals + 2 ground terminals.





ITEM REFERENCES	
Designation:	Item No.:
A21-I2-02609+21T2,5+1M25+5M20	5A0818

TECHNICAL SPECIFICATIONS				
Marking:	II 2(1)G Ex e [ia Ga] IIC T6 Gb 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			



EX I ALUMINIUM JUNCTION BOX - 8 ENTRIES / 21 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 aluminium junction box for hazardous areas.

Manufactured in aluminum.

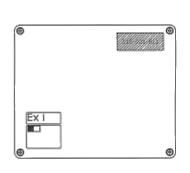
The box has 1xM25 and 7xM20 cable entries, and is equipped with 21 2.5mm² blue terminals + 2 ground terminals.

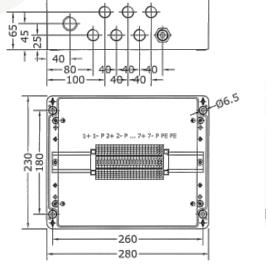




ITEM REFERENCES	
Designation:	Item No.:
A21-E2-02811+21T2,5+1M25+7M20	5A0819

	TECHNICAL SPECIFICATIONS
Marking:	I 2(1)G Ex e [ia Ga] IC T6 Gb I 2(1)D Ex tb [ia Da] IIC 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







ZONES 1, 2 (gas)



Ex i junction box certified for use in hazardous areas

Equipped with 4 x MPT 1,5S/BU terminals, 1x M20x1.5 EMC cable gland and 1x M12 Ex i connectors (female).





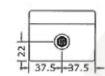


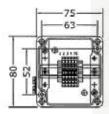
	ITEM REFERENCES	
Designation:	Configuration:	Item No.:
A21-I2-00806+4T1,5+1M20+1C	1xM20x1,5 EMC cable gland + 1 Flange socket	5A0820

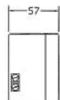
TECHNICAL SPECIFICATIONS							
Marking:	€ II 2(1)G Ex ia IIC T6 Gb						
Certificate:	EU-Type Examination Certificate						
Housing:	Aluminium						
Dimensions:	75x80x57mm						
Operating temperature:	-20°C to +40°C						
Terminals:	4 x MPT 1,5S/BU (1 external earth connection)						
Ingress protection: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













ZONES 1, 2 (gas)



Ex i junction box certified for use in hazardous areas

Equipped with 10 x MPT 1,5S/BU terminals, 1x M20x1.5 EMC cable gland and 2x M12 Ex i connectors (male and female).

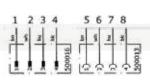


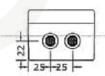




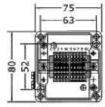
	ITEM REFERENCES	
Designation:	Configuration:	Item No.:
A21-I2-00806+10T1,5+1M20+2C	1xM20x1,5 EMC cable gland + 1 Flange plug + 1 Flange socket	5A0817

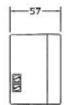
	TECHNICAL SPECIFICATIONS					
Marking:	€ II 2(1)G Ex ia IIC T6 Gb					
Certificate:	EU-Type Examination Certificate					
Housing:	Aluminium					
Dimensions:	75x80x57mm					
Operating temperature:	-20°C to +40°C					
Terminals:	10 x MPT 1,5S/BU (1 external earth connection)					
Ingress protection:	IP65					
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)					













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...

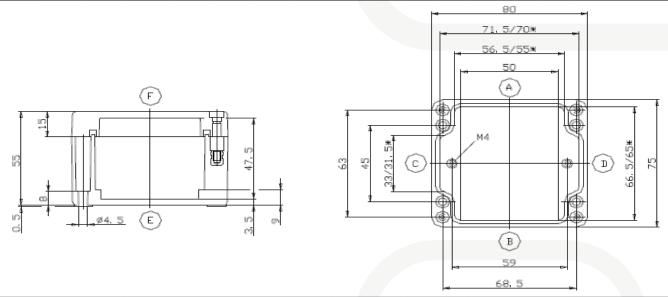






We don't supply empty "U" certified enclosures. These terminal boxes must be configured with the number of terminals and cable entries.

	ITEM REFERENCES														
Max. number of terminals:							N	lax. nur		Item No.:					
Type:	2,5 mm²	4 mm²	6 mm²	10 mm²	16 mm²	35 mm²	Size:	M16	M20	M25	M32	M40	M50	M63	
						Α	2	1	1	0	0	0	0		
Number:		•			0	0	В	2	1	1	0	0	0	0	5A0301xx*
Number:	umber: 8 0	U	0	0			С	2	1	0	0	0	0	0	
							D	2	1	0	0	0	0	0	



- * 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.

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:	75x80x57 mm						
Ingress protection:	IP65						
Weight:	280 g (empty)						
Colour:	RAL 7001						

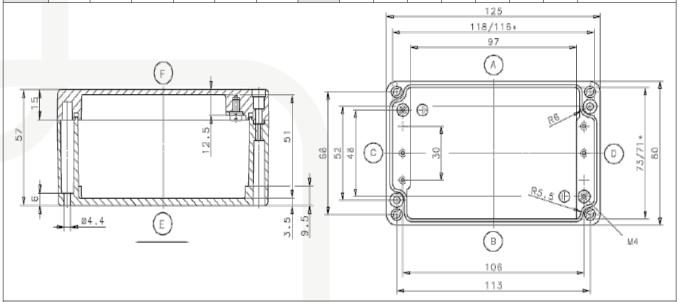
Zones 1, 2, 21, 22

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

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.

	ITEM REFERENCES														
Max. number of terminals:							N	/lax. nur	Item No.:						
Type:	2,5 mm ²	4 mm²	6 mm²	10 mm²	16 mm²	35 mm²	Size:	M16	M20	M25	M32	M40	M50	M63	
							Α	4	3	2	0	0	0	0	
Number:	17	_	0	0			В	4	3	2	0	0	0	0	5A0302xx*
Number:	Number: 17 0		U	0	0	С	2	1	0	0	0	0	0		
							D	2	1	0	0	0	0	0	



- * 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.

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:	125x80x57 mm						
Ingress protection:	IP65						
Weight:	435 g (empty)						
Colour:	RAL 7001						

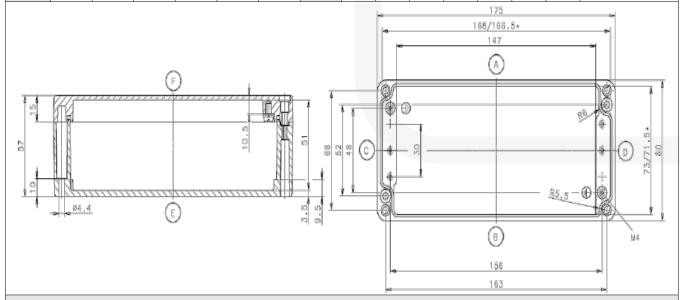
Zones 1, 2, 21, 22

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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.

	ITEM REFERENCES														
Max. number of terminals:							N	lax. nur	Item No.:						
Type:	2,5 mm²	4 mm²	6 mm²	10 mm²	16 mm²	35 mm²	Size::	M16	M20	M25	M32	M40	M50	M63	
							Α	6	4	4	0	0	0	0	
Number:	27	0	0	0			В	6	4	4	0	0	0	0	5A0303xx*
Number:	mber: 27 U	0	U	0	0	С	2	1	0	0	0	0	0		
							D	2	1	0	0	0	0	0	



- * 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

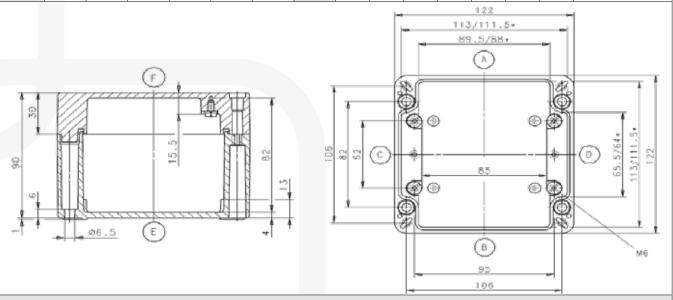
TECHNICAL SPECIFICATIONS								
Marking:	11 2G Ex e T4/T6 Gb 12 G Ex ia							
Certificate:	EU-Type Examination Certificate							
Operating temperature:	-50°C to +60°C							
Dimensions:	175x80x57 mm							
Ingress protection:	IP65							
Weight:	530 g (empty)							
Colour:	RAL 7001							

Zones 1, 2, 21, 22

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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.

	ITEM REFERENCES														
Max. number of terminals:								/lax. nur		Item No.:					
Type:	2,5 mm ²	4 mm²	6 mm²	10 mm²	16 mm²	35 mm²	Size:	M16	M20	M25	M32	M40	M50	M63	
							Α	6	4	2	2	1	0	0	
Number:	15	13	9	7	0	0	В	6	4	2	2	1	0	0	5A0304xx*
Number:	15	13	9	'	"	"	С	2	1	1	0	0	0	0	
							D	2	1	1	0	0	0	0	



- * 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:	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:	122x122x90 mm									
Ingress protection:	IP65									
Weight:	920 g (empty)									
Colour:	RAL 7001									

Zones 1, 2, 21, 22

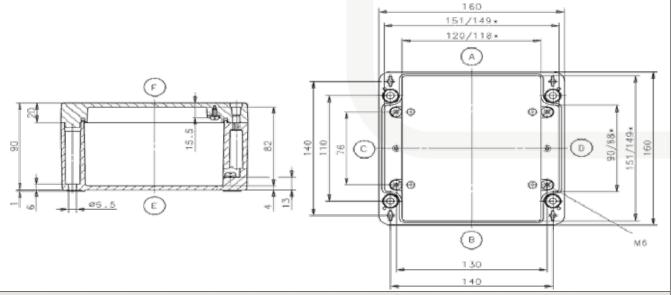
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The number of cable entries and the number of terminals is configurable according to the customer's needs. The boxes are supplied finished, with the necessary terminals and with the cable entries already made.

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

	ITEM REFERENCES															
Max. number of terminals:								Max. number of cable entries (plastic glands): Item No.								
Type:	2,5 mm ²	4 mm²	6 mm²	10 mm ²	16 mm²	35 mm²	Size:	M16	M20	M25	M32	M40	M50	M63		
							Α	9	6	4	2	2	1	0		
Number:	22	18	13	11	9	0	В	9	6	4	2	2	1	0	5A0305xx*	
Number:	22	10	13	11	9		С	4	3	2	2	0	0	0		
							D	4	3	2	2	0	0	0		



- * 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.

	TECHNICAL SPECIFICATIONS										
Marking:	11 2G Ex e T4/T6 Gb 12 G Ex ia										
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										

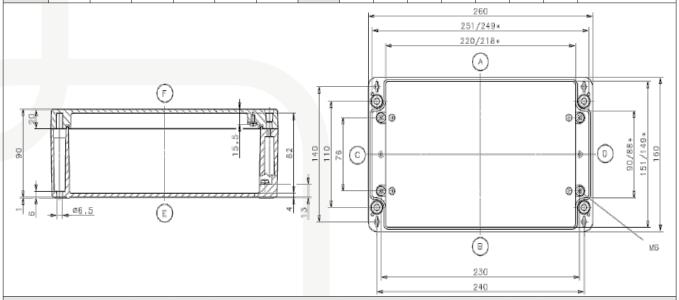
Zones 1, 2, 21, 22

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

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.

	ITEM REFERENCES															
Max. number of terminals:								Max. number of cable entries (plastic glands): Item No.								
Type:	2,5 mm ²	4 mm²	6 mm²	10 mm²	16 mm²	35 mm²	Size:	M16	M20	M25	M32	M40	M50	M63		
							Α	17	12	7	4	3	3	0		
Number:	42	35	26	21	17	_	В	17	12	7	4	3	3	0	5A0306xx*	
Number:	42	35	26	21	17	0	С	4	3	2	2	0	0	0		
							D	4	3	2	2	0	0	0		



- * 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.

	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:	260x160x90 mm									
Ingress protection:	IP65									
Weight:	1960 g (empty)									
Colour:	RAL 7001									

Zones 1, 2, 21, 22

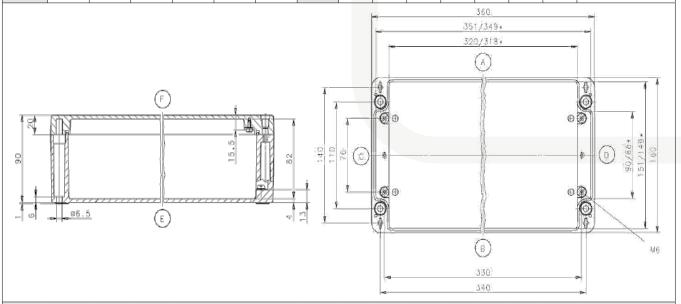
Full catalogue available on our website: www.inpratex.com



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.

	ITEM REFERENCES														
Max. number of terminals:								lax. nur		Item No.:					
Type:	2,5 mm ²	4 mm²	6 mm²	10 mm ²	16 mm²	35 mm²	Size:	M16	M20	M25	M32	M40	M50	M63	
							Α	26	18	11	6	5	4	0	
Number:	62	51	38	31	25	0	В	26	18	11	6	5	4	0	5A0307xx*
Number:	62	31	36	31	25		С	4	3	2	2	0	0	0	
							D	4	3	2	2	0	0	0]



- * 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.

	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:	360x160x90 mm										
Ingress protection:	IP65										
Weight:	2550 g (empty)										
Colour:	RAL 7001										

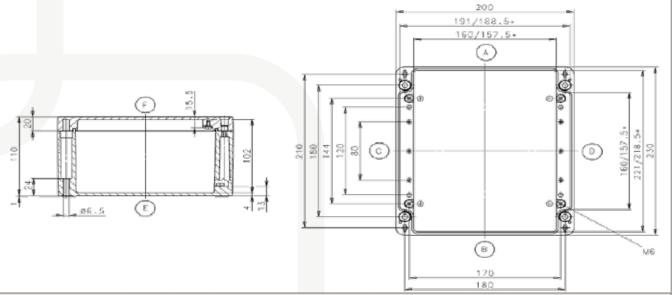
Zones 1, 2, 21, 22

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

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.

	ITEM REFERENCES														
Max. number of terminals:								Лах. nur		Item No.:					
Type:	2,5 mm ²	4 mm²	6 mm²	10 mm²	16 mm²	35 mm²	Size:	M16	M20	M25	M32	M40	M50	M63	
							Α	15	12	8	4	3	2	2	
	60	F0	10	1.5	10		В	15	12	8	4	3	2	2	5A0308xx*
Number:	60	50	18	15	12	0	С	12	8	5	3	2	2	1	
							D	12	8	5	3	2	2	1	



- * 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.

	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									



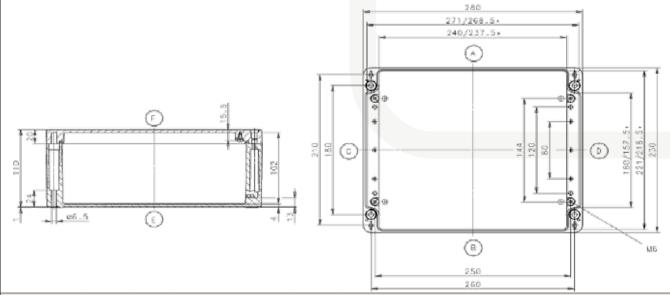
Zones 1, 2, 21, 22

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



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.

	ITEM REFERENCES															
Max. number of terminals:								Max. number of cable entries (plastic glands): Item N								
Type:	2,5 mm ²	4 mm²	6 mm²	10 mm ²	16 mm²	35 mm²	Size:	M16	M20	M25	M32	M40	M50	M63		
							Α	25	18	11	7	4	3	3		
	00	7.0	20	22	10		В	25	18	11	7	4	3	3	5A0309xx*	
Number:	92	76	28	23	19	14	С	12	8	5	3	2	2	1		
							D	12	8	5	3	2	2	1		



- * 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:	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										

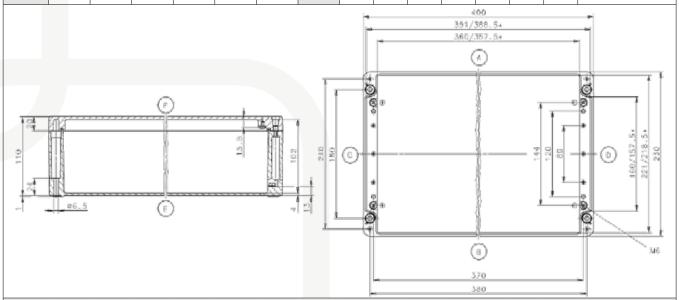
Zones 1, 2, 21, 22

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

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.

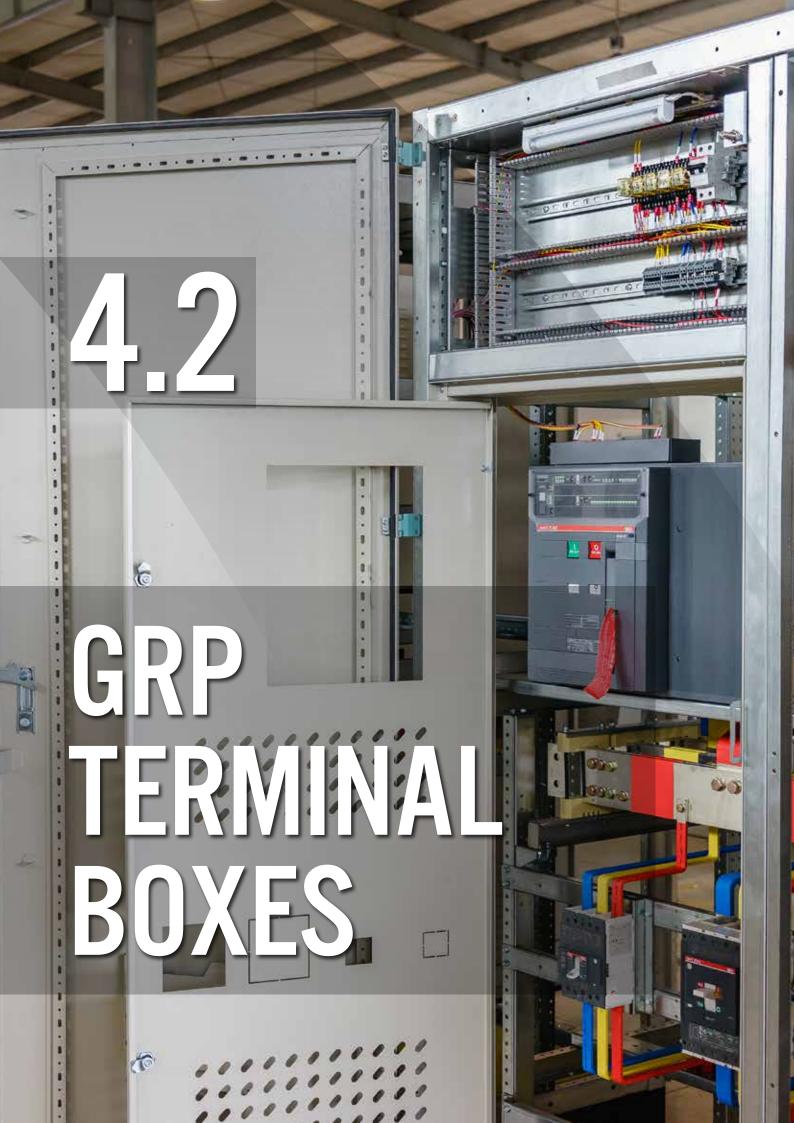
	ITEM REFERENCES														
Max. number of terminals:								lax. nur		Item No.:					
Type:	2,5 mm ²	4 mm²	6 mm²	10 mm²	16 mm²	35 mm²	Size:	M16	M20	M25	M32	M40	M50	M63	
						Α	38	27	17	11	6	5	4		
	140	116	42	25	20	21	В	38	27	17	11	6	5	4	5A0310xx*
Number:	140	116	43	35	29	21	С	12	8	5	3	2	2	1	
							D	12	8	5	3	2	2	1	1



- * 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.

	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:	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)







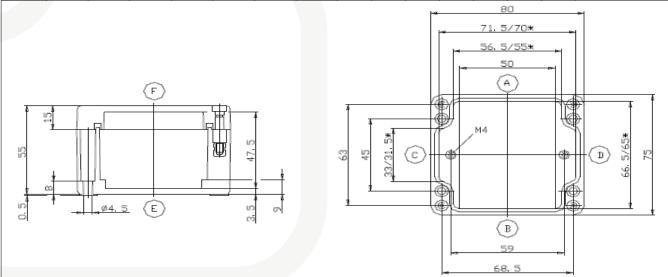


EU-Type Examination Certificate

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.

	ITEM REFERENCES														
Max. number of terminals:								lax. nur		Item No.:					
Type:	2,5 mm²	4 mm²	6 mm²	10 mm²	16 mm²	35 mm²	Size:	M16	M20	M25	M32	M40	M50	M63	
							Α	2	2	1	0	0	0	0	
Normalia and	_						В	2	2	1	0	0	0	0	5A0201xx*
Number:	'	0	0		0	0	С	1	1	0	0	0	0	0	
							D	1	1	0	0	0	0	0	

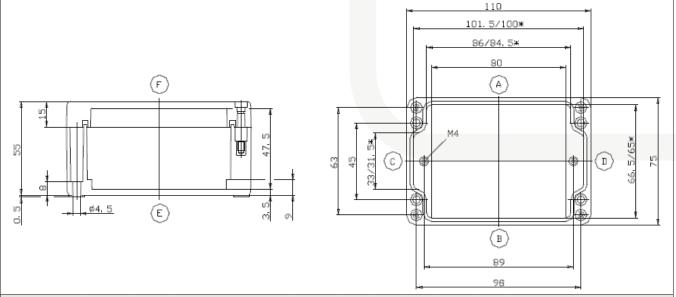


- * The following should be attached to the reference of each box size:
- 1 Type and number of terminals required (never exceed the maximum quantity shown in the table)
- 2 Size and number of cable entries:
- For unarmoured cable, it may never exceed the maximum quantity shown in the table.
- If armoured cable is used, the number of entries must be defined in each case.

	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:	80x75x55 mm								
Ingress protection:	IP65								
Weight:	230 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.

	ITEM REFERENCES														
		Max. nun	Max. number of cable entries (plastic glands): Item No.:												
Type:	2,5 mm ²	4 mm²	6 mm²	10 mm²	16 mm²	35 mm²	Size:	M16	M20	M25	M32	M40	M50	M63	
							Α	3	3	2	0	0	0	0	
Normaliano	12						В	3	3	2	0	0	0	0	5A0202xx*
Number:	13	0	0	0	0	0	С	1	1	0	0	0	0	0	
							D	1	1	0	0	0	0	0	



- * 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:	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:	110x75x55 mm									
Ingress protection:	IP65									
Weight:	295 g (empty)									
Colour:	RAL 9005									

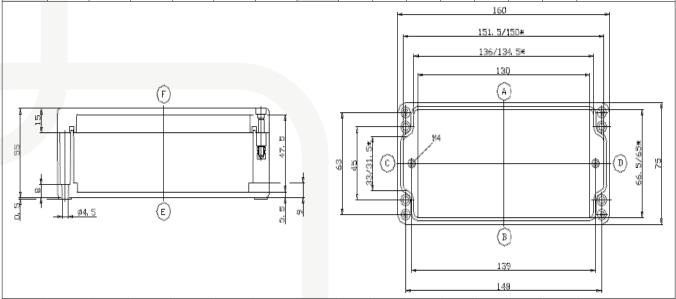
CONFIGURABLE EX E GRP JUNCTION BOXES

Zones 1, 2, 21, 22

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

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.

	ITEM REFERENCES														
Max. number of terminals:								lax. nur		Item No.:					
Type:	2,5 mm²	4 mm²	6 mm²	10 mm²	16 mm²	35 mm²	Size:	M16	M20	M25	M32	M40	M50	M63	
							Α	5	4	3	0	0	0	0	
	22						В	5	4	3	0	0	0	0	5A0203xx*
Number:	22	0	0	0	0	0	С	1	1	0	0	0	0	0	
							D	1	1	0	0	0	0	0	1

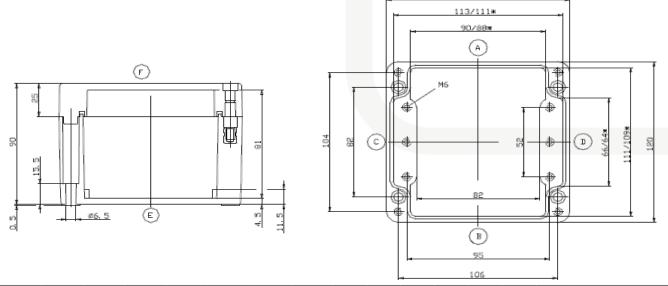


- * The following should be attached to the reference of each box size:
- 1 Type and number of terminals required (never exceed the maximum quantity shown in the table)
- 2 Size and number of cable entries:
 - For unarmoured cable, it may never exceed the maximum quantity shown in the table.
- If armoured 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:	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:	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.

	ITEM REFERENCES														
Max. number of terminals:								lax. nur		Item No.:					
Туре:	2,5 mm²	4 mm²	6 mm²	10 mm²	16 mm²	35 mm²	Size:	M16	M20	M25	M32	M40	M50	M63	
							Α	5	4	3	2	1	0	0	
Nb	1.0	12	10		_	_	В	5	4	3	2	1	0	0	5A0204xxx*
Number:	16	13	10	6	0	0	С	3	2	2	1	0	0	0	
							D	3	2	2	1	0	0	0	1



- * 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:	2G Ex e T4/T6 Gb 2G Ex ia C T6 Gb 2D Ex tD A21 P65 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										

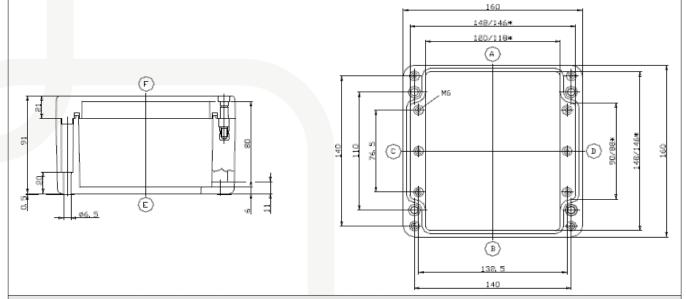
CONFIGURABLE EX E GRP JUNCTION BOXES

Zones 1, 2, 21, 22

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

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.

	ITEM REFERENCES															
Max. number of terminals:								Max. number of cable entries (plastic glands): Item No.								
Туре:	2,5 mm²	4 mm ²	6 mm²	10 mm²	16 mm ²	35 mm²	Size:	M16	M20	M25	M32	M40	M50	M63		
							Α	8	6	4	2	2	1	0		
	22						В	8	6	4	2	2	1	0	5A0205xx*	
Number:	22	18	13	11	9	0	С	4	3	2	2	1	0	0		
							D	4	3	2	2	1	0	0	1	



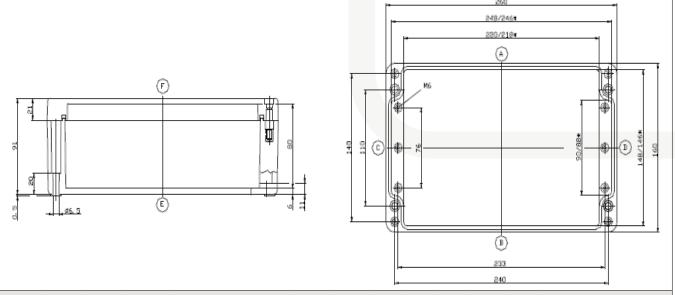
- * The following should be attached to the reference of each box size:
- 1 Type and number of terminals required (never exceed the maximum quantity shown in the table)
- 2 Size and number of cable entries:
- For unarmoured cable, it may never exceed the maximum quantity shown in the table.
- If armoured 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:										
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.

	ITEM REFERENCES														
Max. number of terminals:							Max. number of cable entries (plastic glands):								Item No.:
Type:	2,5 mm²	4 mm²	6 mm²	10 mm²	16 mm²	35 mm ²	Size:	M16	M20	M25	M32	M40	M50	M63	
							Α	15	12	8	4	3	3	0	5A0206xx*
	42	25	26	21	1.7		В	15	12	8	4	3	3	0	
Number:	42	35	26	21	17	0	С	4	3	2	2	1	0	0	
							D	4	3	2	2	1	0	0	



- * 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.

	TECHNICAL SPECIFICATIONS									
Marking:	11 2G Ex e T4/T6 Gb 12 G Ex ia									
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									

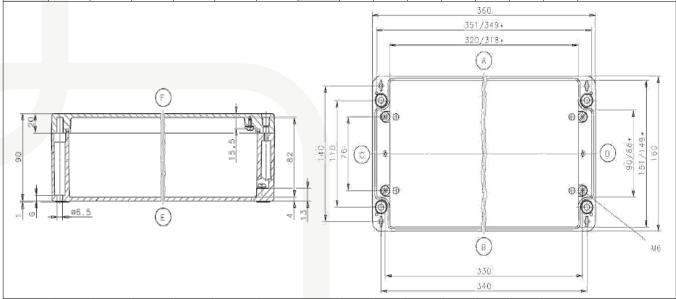
CONFIGURABLE EX E GRP JUNCTION BOXES

Zones 1, 2, 21, 22

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

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.

	ITEM REFERENCES														
Max. number of terminals:								/lax. nur	Item No.:						
Type:	2,5 mm²	4 mm²	6 mm²	10 mm²	16 mm²	35 mm²	Size:	M16	M20	M25	M32	M40	M50	M63	
							Α	23	18	11	7	5	4	0	
	60		20	21	25		В	23	18	11	7	5	4	4 0 5A0207xx*	5A0207xx*
Number:	62	51	38	31	25	0	С	4	3	2	2	1	0	0	
							D	4	3	2	2	1	0	0	

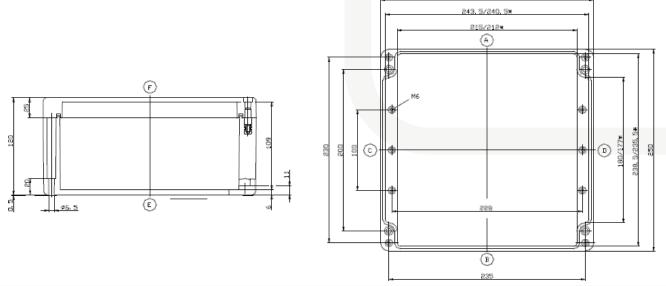


- * The following should be attached to the reference of each box size:
- 1 Type and number of terminals required (never exceed the maximum quantity shown in the table)
- 2 Size and number of cable entries:
 - For unarmoured cable, it may never exceed the maximum quantity shown in the table.
- If armoured 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:									
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.

	ITEM REFERENCES																			
Max. number of terminals:							N	lax. nur	nber of	cable e	ntries (p	olastic g	lands):		Item No.:					
Type:	2,5 mm²	4 mm ²	6 mm²	10 mm²	16 mm ²	35 mm ²	Size:	M16	M20	M25	M32	M40	M50	M63						
			A 23 17 11 7	4	3	3														
Normaliano			25	20	1.0	12	В	23	17	11	7	4	3	3	5A0208xx*					
Number:	80	66	25	20	16	12	С	14	10	8	4	3	2	2						
							D	14	10	8	4	3	2	2						



- * 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:	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:	255x250x120 mm									
Ingress protection:	IP65									
Weight:	2650 g (empty)									
Colour:	RAL 9005									

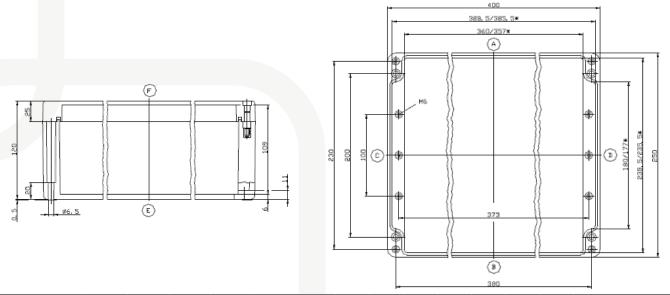
CONFIGURABLE EX E GRP JUNCTION BOXES

Zones 1, 2, 21, 22

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

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.

	ITEM REFERENCES														
Max. number of terminals:							N	lax. nur	nber of	cable e	ntries (¡	olastic g	(lands):		Item No.:
Type:	2,5 mm²	4 mm²	6 mm²	10 mm²	16 mm²	35 mm²	Size:	M16	M20	M25	M32	M40	M50	M63	
							Α	38	27	17	13	6	5	4	5A0209xx*
	140	110	42	25	20	21	В	38	27	17	13	6	5	4	
Number:	140	116	43	35	29	21	С	14	10	8	4	3	2	2	
							D	14	10	8	4	3	2	2	

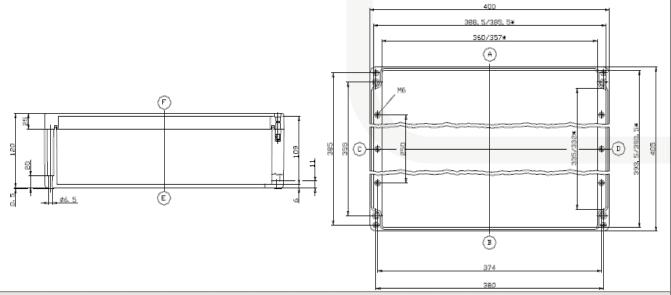


- * The following should be attached to the reference of each box size:
- 1 Type and number of terminals required (never exceed the maximum quantity shown in the table)
- 2 Size and number of cable entries:
 - For unarmoured cable, it may never exceed the maximum quantity shown in the table.
- If armoured 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:	11 2G Ex e T4/T6 Gb 12 G Ex ia								
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.

	ITEM REFERENCES														
Max. number of terminals:							N	lax. nur	nber of	cable e	ntries (p	olastic g	lands):		Item No.:
Type:	2,5 mm²	4 mm ²	6 mm²	10 mm²	16 mm ²	35 mm²	Size:	M16	M20	M25	M32	M40	M50	M63	
							Α	38	27	17	13	6	5	4	5A0210xx*
Normaliano	210	174	0.0	25	20	21	В	38	27	17	13	6	5	4	
Number:	210	174	86	35	29	21	С	29	20	15	7	5	4	4	
							D	29	20	15	7	5	4	4	



- * 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:	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:	400x405x120 mm									
Ingress protection:	IP65									
Weight:	5580 g (empty)									
Colour:	RAL 9005									

CONFIGURABLE EX E GRP JUNCTION BOXES

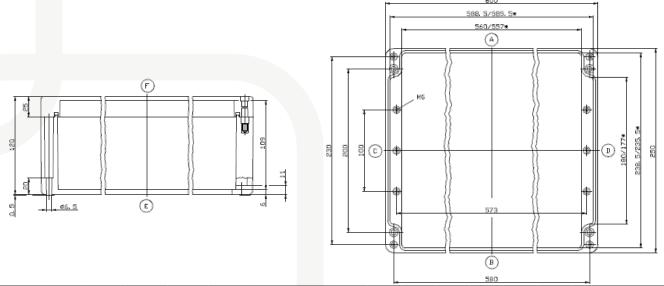
Zones 1, 2, 21, 22

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

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.

	ITEM REFERENCES															
Max. number of terminals:				Max. number of cable entries (plastic glands):						Item No.:						
Type:	2,5 mm²	4 mm²	6 mm²	10 mm²	16 mm²	35 mm²	Size:	M16	M20	M25	M32	M40	M50	M63		
	220	220 182					Α	84	52	24	18	10	6	4		
Number:			182	-	55	45 34	24	В	84	52	24	18	10	6	4	5A0211xx*
				182 68			34	С	14	10	8	4	3	2	2	
							D	14	10	8	4	3	2	2		



- * 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:	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			

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.

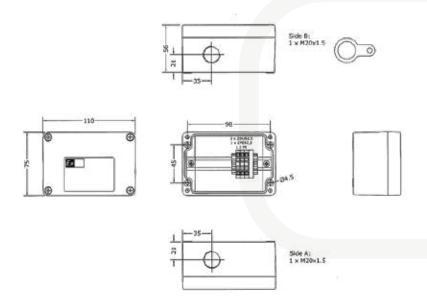
Equipped with 2 cable entries and 2 2,5mm² + 1 PE terminals.





	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 II 2D Ex tb IIIC T80°C Db				
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 2 CABLE ENTRIES - 6 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)



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

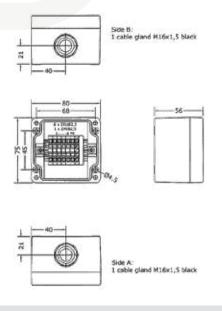
The box is equipped with 2 cable entries M16x1.5 and 6 2.5mm² terminals + 1 PE terminal inside.





ITEM REFERENCES					
Designation:	Cable glands:	Item No.:			
A21-E1-00806+6T2,5+2PM16	2 plastic cable glands (4-9 mm)	5A1101			

	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:	80x75x55mm
Operating temperature:	-20°C to +40°C
Rated voltage:	max. 500V
Rated current:	max. 14 A
Terminals:	6 x 2,5mm ² + 1 PE
Ingress protection:	IP65
Cable entries:	2xM16x1,5 plastic cable glands for non-armoured cable



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.

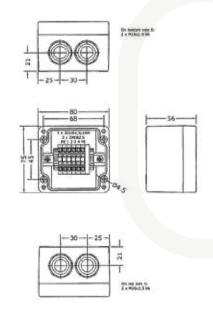
Equipped with 4 cable entries and 4 2,5mm² + 2 PE terminals.





ITEM REFERENCES						
Designation:	Cable glands:	Item No.:				
A21-E1-00806+4T2,5+4PM16	4 Plastic cable glands (4-9 mm)	5A1102				

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:	80x75x55 mm			
Operating temperature:	-20°C to +40°C			
Rated voltage:	max. 550V			
Rated current:	max. 16 A			
Terminals:	4 x 2,5mm ² + 2 PE			
Ingress protection:	IP65			
Cable entries:	4xM16x1,5 plastic cable glands for non-armoured cable			



Zones 1, 2, 21, 22

ATEX JUNCTION BOXES

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

GRPJUNCTION BOX 4 CABLE ENTRIES - 12 TERMINALS



* Supplied without cable glands and plugs

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

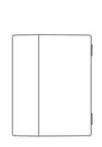
Equipped with 4 cable entries and 12 terminals 2,5mm² + 2 PE Terminals.

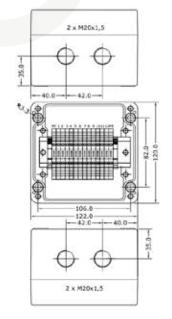


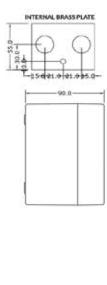


ITEM REFERENCES	
Designation:	Item No.:
A21-E1-01209+12T2,5+4M20	5A0601
3 mm inner grounding plate for armoured cable	5A0602

	TECHNICAL SPECIFICATIONS
Marking:	II 2G Ex e IIC T6 Gb II 2D Ex tb IIIC T80°C
Certificate:	EU-Type Examination Certificate
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 without cable glands and plugs)







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.

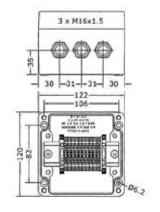
Equipped with 3 cable entries and 8 2,5mm² + 2 PE terminals.

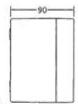




ITEM REFERENCES						
Designation:	Cable glands:	Item No.:				
A21-E1-01106+8T2,5+3PM16	3 Plastic cable glands (4-9 mm)	5A1105				

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:	122x120x90 mm			
Operating temperature:	-20°C to +40°C			
Rated voltage:	max. 500V			
Rated current:	max. 15 A			
Terminals:	8 x 2,5mm ² + 2 PE			
Ingress protection:	IP65			
Cable entries:	3xM16x1,5 plastic cable glands for non-armoured cable			







GRPJUNCTION BOX 6 CABLE ENTRIES - 6 TERMINALS

ATEX JUNCTION BOXES

Zones 1, 2, 21, 22

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



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

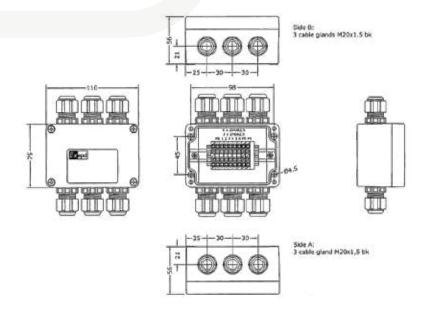
Equipped with 6 cable entries and 6 2,5mm² + 3 PE terminals.





ITEM REFERENCES		
Designation:	Cable glands:	Item No.:
A21-E1-01106+6T2,5+6PM20	6 Plastic cable glands (7-13 mm)	5A1103

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:	110x75x55 mm
Operating temperature:	-20°C to +40°C
Rated voltage:	max. 550V
Rated current:	max. 14 A
Terminals:	6 x 2,5mm ² + 3 PE
Ingress protection:	IP65
Cable entries:	6xM20x1,5 plastic cable glands for non-armoured cable



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.

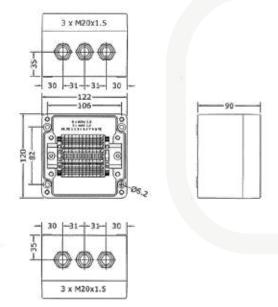
Equipped with 6 cable entries and 9 2,5mm² + 3 PE terminals.





ITEM REFERENCES		
Designation:	Cable glands:	Item No.:
A21-E1-01106+9T2,5+6PM20	6 Plastic cable glands (7-13 mm)	5A1104

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:	122x120x90mm
Operating temperature:	-20°C to +40°C
Rated voltage:	max. 500V
Rated current:	max. 14 A
Terminals:	9 x 2,5mm ² + 3 PE
Ingress protection:	IP65
Cable entries:	6xM20x1,5 plastic cable glands for non-armoured cable



GRPJUNCTION BOX 4 CABLE ENTRIES - 19 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)

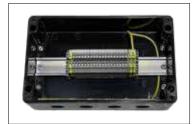


ATEX junction boxes certified for installation in hazardous areas.

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.

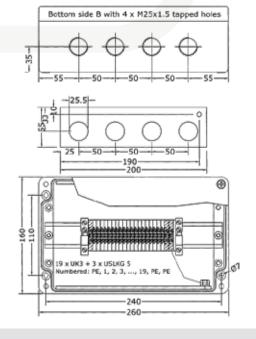


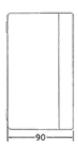


* Supplied without cable glands and plugs

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)





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)

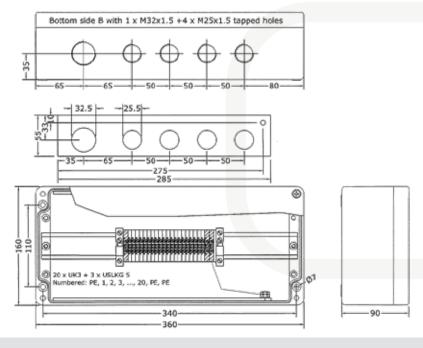
The box is configured with 4 unplugged M25x1.5 and 1 M32x1,5 cable entries, and is equipped with 20 2.5mm² terminals, 3 grounding terminals and a brass grounding plate inside.





ITEM REFERENCES	
Designation:	Item No.:
A21-E1-03609+20T2,5+4M25+1M32	5A1002

	TECHNICAL SPECIFICATIONS		
Marking:	II 2G Ex eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db		
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

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

ATEX JUNCTION BOXES

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



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.

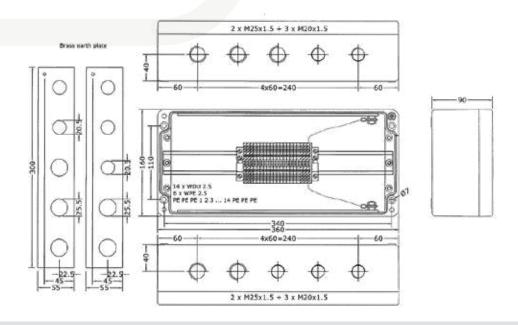




* Supplied without cable glands and plugs

ITEM REFERENCES	
Designation:	Item No.:
A21-E1-03609+14T2,5+5M20+5M25	5A0816

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:	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)	



ATEX JUNCTION BOXES

ZONES 2 (gas) & 22 (dust)







Declaration of Conformity

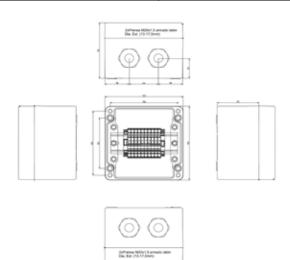
ATEX junction box for hazardous areas (Zones 2,22).

Manufactured in fibreglass reinforced polyester.

It is equipped with 4 M20x1,5 entries for armoured cable, 6 x 2,5mm2 terminals and 4x2,5mm² PE terminals.

	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 ec IIC T6 Gc II 3D Ex tc 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





GRPJUNCTION BOX ZONE 2,22 - 4 ENTRIES NON ARMOURED CABLE

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

ATEX JUNCTION BOXES

ZONES 2 (gas) & 22 (dust)



ATEX junction box for hazardous areas (Zones 2,22).

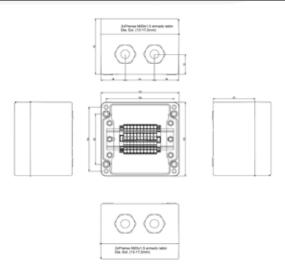
Manufactured in fibreglass reinforced polyester.

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:	II 3G Ex ec IIC T6 Gc II 3D Ex tc 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 2,5mm² with jumpers (1, 2/3, 4/5, 6) + 4 PE terminals 2,5mm² (PE)
Ingress protection:	IP66 IK08
Cable entries:	4xM20x1,5 plastic cable glands for non armoured cable / plugs





ATEX JUNCTION BOXES

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



Ex i junction box for hazardous areas.

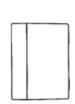
Made of glass fiber reinforced polyester.

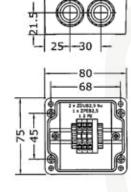
The box includes 2 cable entries with blue polyamide glands M20x1.5 and is equipped with 2x2.5mm² blue terminals + 1 earth terminal.



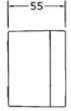
ITEM REFERENCES	
Designation:	Item No.:
A21-I1-Z1246+2T2,5+2M20	5A0802

	TECHNICAL SPECIFICATIONS	
Marking:	II 2(1)G Ex e [ia] IIC T6 Gb 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:	2 x 2,5mm ² + 1 PE	
Ingress protection:	IP66	
Cable entries:	2xM20x1,5 plastic blue cable glands (7-13 mm)	





Side B: 2 cable gland M20x1,5 bu for cable 4-13 mm





GRP EX I JUNCTION BOX - 3 ENTRIES / 4 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.

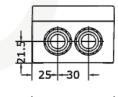
Made of glass fiber reinforced polyester.

The box includes 3 cable entries with blue polyamide glands M20x1.5 and is equipped with 4x2.5mm² blue terminals + 1 earth terminal.



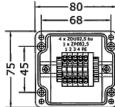
ITEM REFERENCES	
Designation:	Item No.:
A21-I1-Z1245+4T2,5+3M20	5A0803

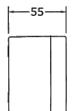
TECHNICAL SPECIFICATIONS	
Marking:	II 2(1)G Ex e [ia] IIC T6 Gb II 2D Ex tb IIIC T80°C
Certificate:	EU-Type Examination Certificate
Housing:	Glass Reinforced Polyester (GRP)
Dimensions:	80x75x55 mm
Operating temperature:	-20°C to +40°C
Terminals:	4 x 2,5mm ² + 1 PE
Ingress protection:	IP66
Cable entries:	3xM20x1,5 plastic blue cable glands (7-13 mm)

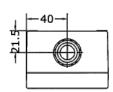


Side B: 2 cable gland M20x1,5 bu for cable 4-13 mm









Side A: 1 cable gland M20x1,5 bu for cable 4-13 mm

ATEX JUNCTION BOXES

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



Ex i junction box for hazardous areas.

Made of glass fiber reinforced polyester.

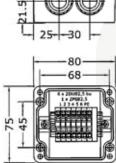
The box includes 4 cable entries with blue polyamide glands M20x1.5 and is equipped with 6x2.5mm² blue terminals + 1 earth terminal.



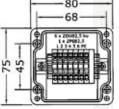
ITEM REFERENCES	
Designation:	Item No.:
A21-I1-Z1244+6T2,5+4M20	5A0801

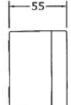
TECHNICAL SPECIFICATIONS	
Marking:	II 2(1)G Ex e [ia] IIC T6 Gb II 2D Ex tb IIIC T80°C
Certificate:	EU-Type Examination Certificate
Housing:	Glass Reinforced Polyester (GRP)
Dimensions:	80x75x55 mm
Operating temperature:	-20°C to +40°C
Terminals:	6 x 2,5mm ² + 1 PE
Ingress protection:	IP66
Cable entries:	4xM20x1,5 plastic blue cable glands (7-13 mm)

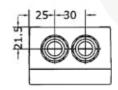




Side B: 2 cable gland M20x1,5 bu for cable 4-13 mm







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

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.

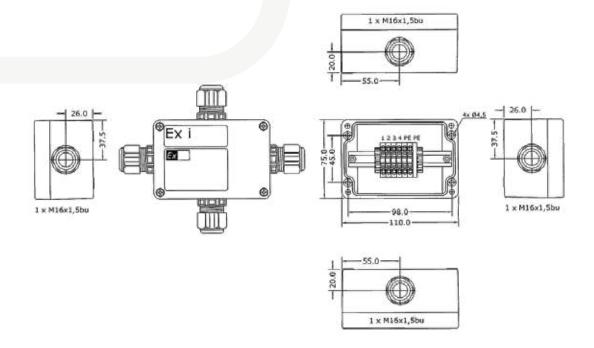
Made of glass fiber reinforced polyester.

The box includes 4 cable entries with blue polyamide glands M20x1.5 and is equipped with 4x2.5mm² blue terminals + 2 earth terminals.



ITEM REFERENCES	
Designation:	Item No.:
A21-I1-01106+4T2,5+4M20	5A0804

	TECHNICAL SPECIFICATIONS	
Marking:	II 2(1)G Ex eb [ia Ga] IIC T6 Gb II 2D 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:	4 x 2,5mm ² + 2 PE	
Ingress protection:	IP66	
Cable entries:	4xM20x1,5 plastic blue cable glands (7-13 mm)	



ATEX JUNCTION BOXES

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



Ex i junction box for hazardous areas.

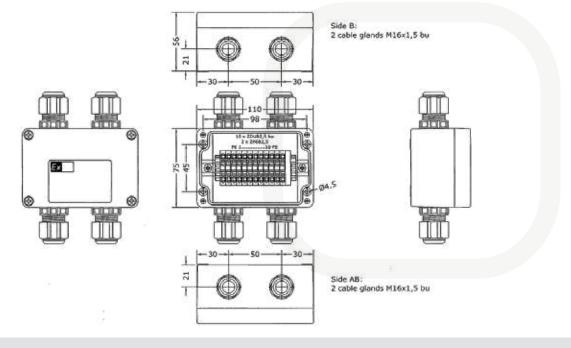
Made of glass fiber reinforced polyester.

The box includes 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:	II 2(1)G 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:	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

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.

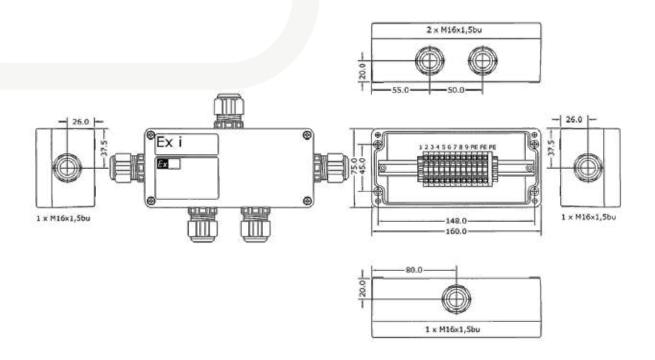
Made of glass fiber reinforced polyester.

The box includes 5 cable entries with blue polyamide glands M20x1.5 and is equipped with 9x2.5mm² blue terminals + 3 earth terminals.



ITEM REFERENCES	
Designation:	Item No.:
A21-I1-01606+9T2,5+5M20	5A0805

	TECHNICAL SPECIFICATIONS
Marking:	II 2(1)G Ex eb [ia Ga] IIC T6 Gb II 2D Ex tb [ia Da] IIIC T80°C Db
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.

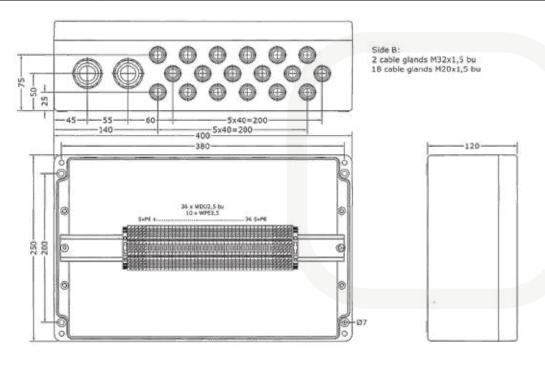
Made of glass fiber reinforced polyester.

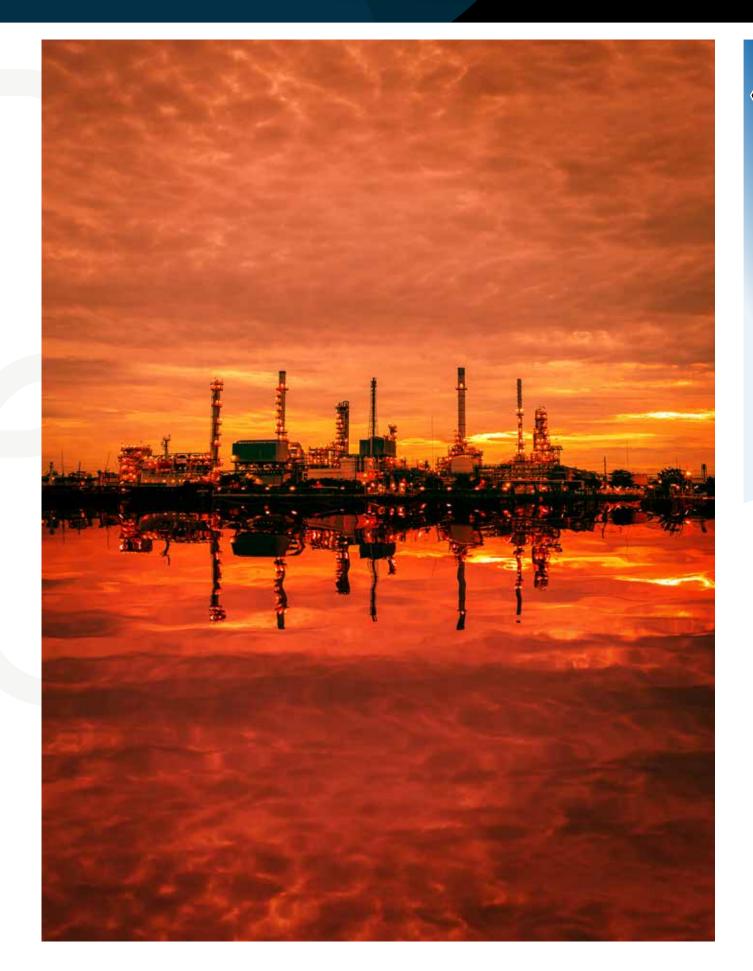
The box includes 2 cable entries with blue polyamide glands M32x1.5, 18 entries M20x1,5 and is equipped with 36x2.5mm² blue terminals + 10 earth terminals.

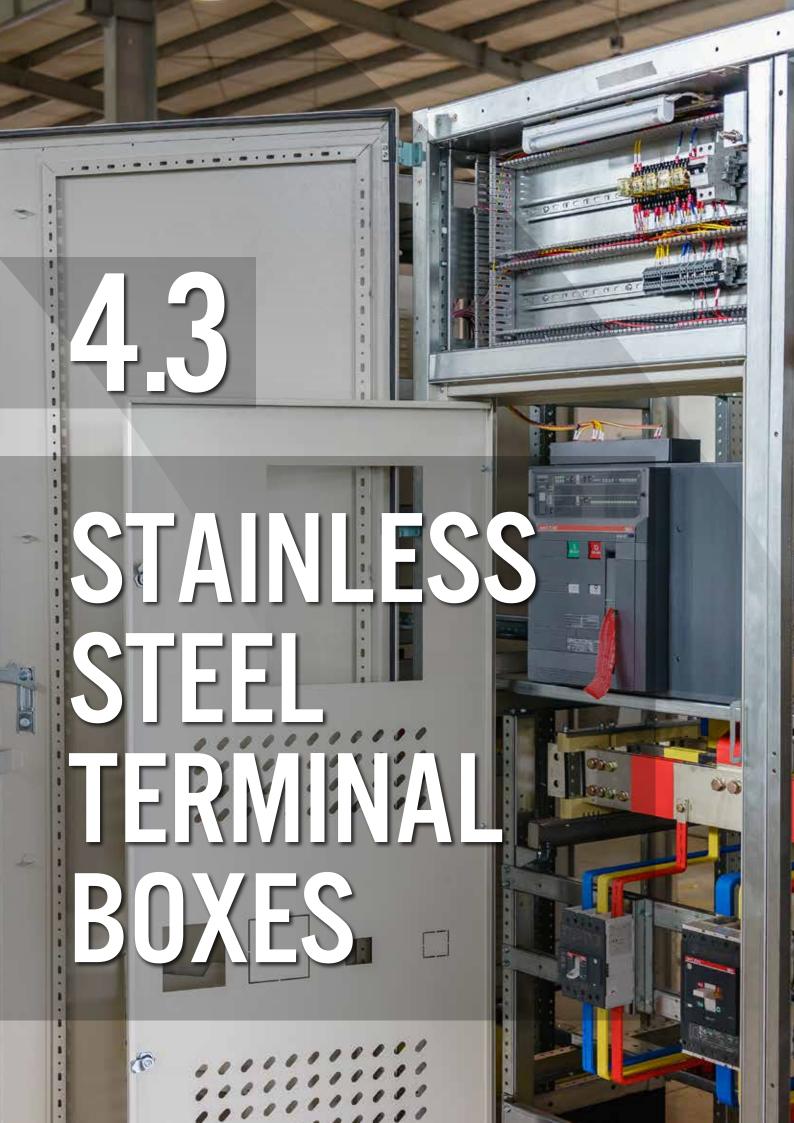


ITEM REFERENCES	
Designation:	Referencia:
A21-I1-04012+36T2,5+2M32+18M20	5A0814

	TECHNICAL SPECIFICATIONS
Marking:	II 2(1)G 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.

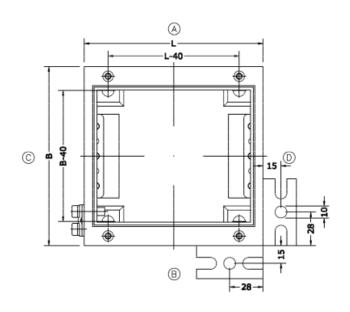


We don't supply empty "U" certified enclosures. These terminal boxes must be configured with the number of terminals and cable entries.



	STANDARD SIZES (SMALL BOXES)												
Dimensions:		Maximu	m No. of t	erminals ,	current				Maximum	No. of ca	ble glands	;	
LxBxH	2,5 mm²	4 mm²	6 mm²	10 mm²	16 mm²	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 SF	PECIFICATIONS
Marking:	II 2G Ex e IIC T4/T6 Gb II 2(1)G Ex e[ia] IIC T6 Gb 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

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

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

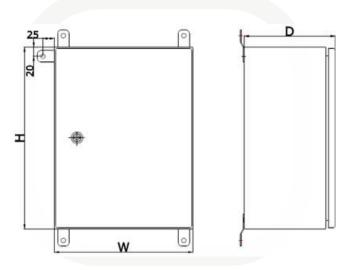
We don't supply empty "U" certified enclosures. These terminal boxes must be configured with the number of terminals and cable entries.



	STANDARD SIZES (LARGE BOXES)												
Dimensions:	Maximum No. of terminals / current*							Maximum No. of cable glands					
WxHxD	35 mm²							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:	II 2G Ex e IIC T6 Gb II 2(1)G Ex e[ia] IIC T6 Gb 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

ATEX JUNCTION BOXES

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

Custom configurable stainless steel ATEX junction box for installation in hazardous areas in zones 1, 2, 21 and 22.

Equipped with 10 2.5mm² terminals and 10 M20x1.5 cable entries, 5 on the upper side and 5 on the lower side.

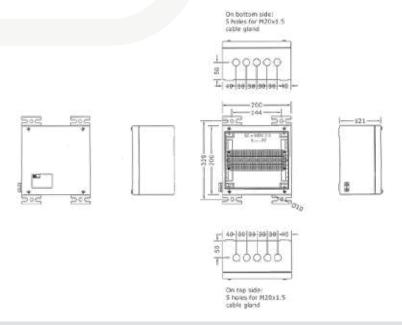






ITEM REFERENCES	
Designation:	Item No.:
A21-E4-02012+30T2,5+10M20	5A0901

	TECHNICAL SPECIFICATIONS
Marking:	II 2G Ex eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db
Certificate:	EU-Type Examination Certificate
Operating temperature:	-20°C to +55°C
Material:	Stainless steel 316 L
Dimensions:	200x200x121 mm
Design:	Screwed lid
Terminals:	30 x 2,5mm ²
PE connection:	External
Ingress protection:	IP66
Accessories:	Wall mounting brackets
Cable entries:	10xM20 (cable glands / plugs not included)





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



Explosion-proof breakers, selector switches, connecting switches series EFS.

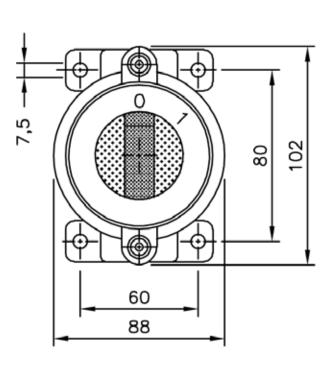
Rotating type, with its knob on the front.

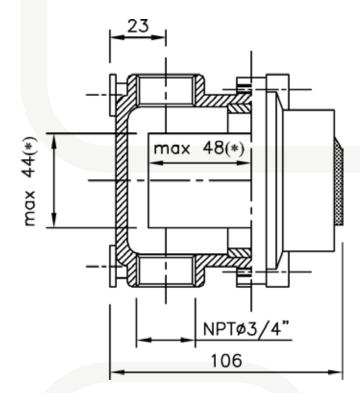
Suitable for currents up to 16A and voltages up to 690 VAC / 660 VDC.



			ITEM REF	ERENCES			
	Designation:	Contacts:	Item No.:		Designation:	Contacts:	Item No.:
(*) (*) (*) (*) (*) (*) (*) (*) (*) (*)	EFS 116 N	1 pole, (0/1) switches	3G0101	100 - 1	EFS 316 N	3 pole, (0/1) switches / 400V / AC3 / 5,5 kW max.	3G0103
C) 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	EFS 216 N	2 pole, (0/1) switches	3G0102		EFS 416 N	4 pole, (0/1) switches / 400V / AC3 / 5,5 kW max.	3G0104
C) R-1 V-1 V-1 V-1 V-1 V-1 V-1 V-1 V-1 V-1 V	EFS 116/CN	1 pole mains transfer switches (1/0/2)	3G0105	C)	EFC 216/CN	3 pole mains transfer	200107
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	EFS 216/CN	2 pole mains transfer switches (1/0/2)	3G0106		EFS 316/CN	switches (1/0/2)	3G0107
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EFS 116/DN	1 pole change-over switches (1/2)	3G0108			3 pole	
(C) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	EFS 216/DN	2 pole change-over switches (1/2) K3022 AC1 2A AC3/3PH 220V - 5,5kW 300V - 11kW 600V -15kW	3G0109	(*) 1	EFS 316/DN	change-over switches (1/2)	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)					





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



3 or 4-pole ATEX certified switches suitable for installation in explosive atmospheres.

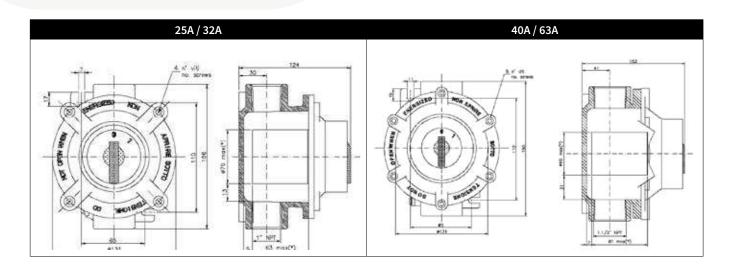
Manufactured in light aluminum alloy.

Suitable for currents up to 25A, 32A, 40A or 63 A and voltages up to $690 \ VAC \ / \ 660 \ VDC.$



ITEM REFERENCES					
Designation:	Contacts:	I _e /AC1=I _{th2}	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)		



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



General purpose switch for use in explosive atmospheres.

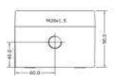
Made of Glass Reinforced Polyester (GRP).

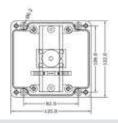
Its dimensions allow convenient wiring for quick installation.



	ITEM REFERENCES		
Contacts:	Designation:	Weight:	Item No.:
12	Switch A21 2NC + Armoured cable gland M20x1,5 brass (13,2-20,5 mm)	1,2 kg	4E0101
14 13 25 19 19	Switch A21 2NO + Armoured cable gland M20x1,5 brass (13,2-20,5 mm)	1,2 kg	4E0102
54 13 22 21	Switch A21 1NC+1NO + Armoured cable gland M20x1,5 brass (13,2-20,5 mm)	1,2 kg	4E0103

TECHNICAL SPECIFICATIONS					
Marking:		II 2G Ex db eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db			
Certificate:	EU-Type Examination Certi	ficate			
Operating temperature:	-20°C to +40°C				
Ingress protection:	IP65				
Material:	Glass fibre reinforced polye	Glass fibre reinforced polyester (GRP)			
Nominal isolation voltage:	690 V	690 V			
	Voltag	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		1 A			
Conventional thermal current:	16 A/+40 °C, 11 A/+60 °C				
Connection:	Terminals 2,5 mm ²				
Operating cycle:	10 ⁶ commutations				







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



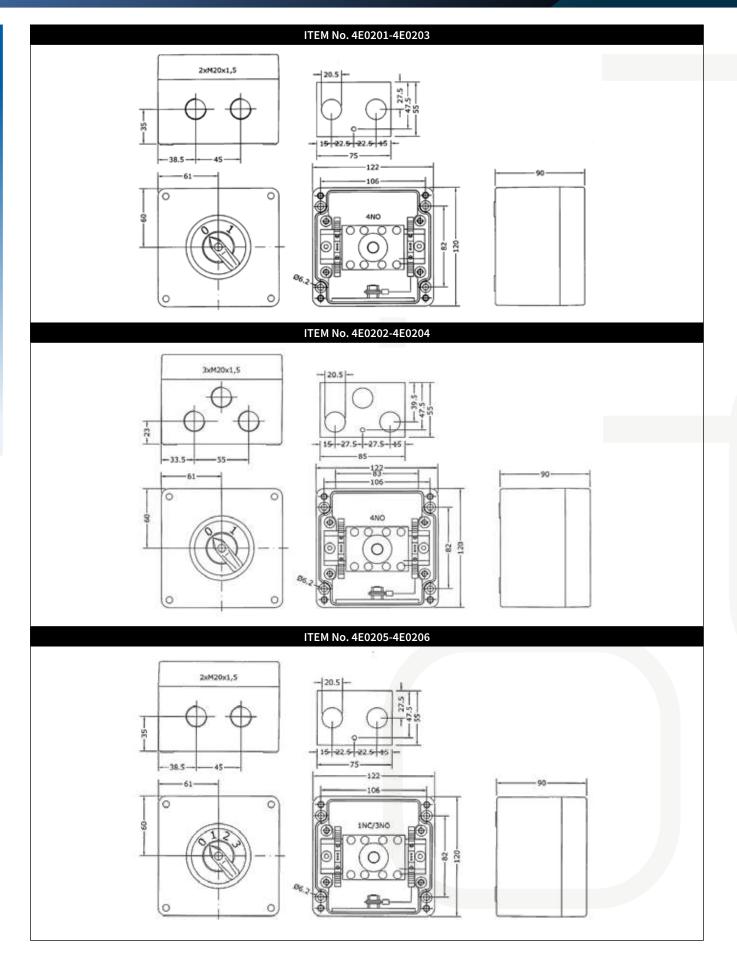
4-pole ATEX padlockable 0/1 or 0/1/2/3 disconnector with AC3 breaking capacity up to 5.5 kW at 400V.

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	
13 23 33 43	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	
14 24 34 44	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		
larking: II 2G Ex db eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db			
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 _e =AC-23/400 V/10 A		
	Utilization categories:		
AC-15	400 V	10 A	
AC-12	400 V	16 A	
DC-13	24 V	1A	
Nominal isolation voltage:	U _i =690V U _e =450V		
Nominal pulse voltage:	U _{imp} =6 kV		
Rated short-circuit current (400V):	I _e =4 kA		
Short-circuit current:	max. 16A		
Connection:	Terminals 2,5 mm ²		



Zones 1, 2, 21, 22

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.

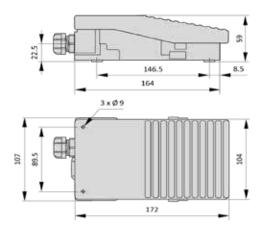




These foot switches are designed for explosive atmospheres gas/vapours or dust and meet the highest levels of protection. Useful for maintenance operations.

ITEM REFERENCES			
Designation:	Control unit type / contact:	Colour:	Item No.:
XPEWM110	1 step / 1NC + 1NO	Blue	3F0101
XPEWM111	1 step / 2NO + 2NC	Blue	3F0102
XPEWM211	2 steps / 2NO + 2NC	Blue	3F0103
XPEWR110	1 step / 1NC + 1NO	Orange	3F0104
XPEWR111	1 step / 2NO + 2NC	Orange	3F0105
XPEWR211	2 steps / 2NO + 2NC	Orange	3F0106
AI LWIZII	2 steps / 2NO · 2NC	Orange	31 0100

	TECHNICAL SPECIFICATIONS	
Marking:	Ex de 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:	Ue=240V, le=6A, Ui=400V AC-15, A300 - Ue=240V, le=3A DC-13, Q300 - Ue=250V, le=0,27A	
Short-circuit protection:	Fuse 6 A gG	
Mechanical endurance:	Actuator: 5 million operations - Contact block: 1 million operations	
Ingress protection:	IP66 according to IEC 60529	
Cable entries:	1xPG16 plastic cable gland (10-15mm), 1 plastic plug	



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.

 $Because of the gold plated contacts, the \,M12\,microswitches$ 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.



ITEM REFERENCES				
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	Single wires 16 cm	500024	
	AS1-A7-500025	Single wires 26 cm	500025	
	AS1-A7-500026	Single wires 1 m	500026	
For direct installation on machines with cable 3 x 0,5 mm ²				
and the	AS1-L7-500027	Cable 3 m	500027	
and the same	AS1-L7-500030	Cable 5 m	500030	
	AS1-L7-500031	Cable 10 m	500031	

	TECHNICAL SP	ECIFICATIONS		
Marking:	(II 2G Ex db IIC T6 Gb			
Certificate:	EU-Type Examination Certificate	EU-Type Examination Certificate Contacts:		
Material:	Glass fiber reinforced polyamide		1 = brown "C"	
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°C			
Design:	Cylindrial design M12x1. Length 38	mm (without actuator)		
Variants:	with single core 3 x 0,5 mm ² with cable 3 x 0,5 mm ²		\	
Ingress protection:	min. IP54		1	
	CONTACT	ELEMENT		
Cuitabia a salta a AC 250 V		SWITCHING CURRENT		
Switching voltage AC 250 V	5 A / AC-12	4 A / AC-12	1 A / AC-13/15	
Conitabina valta as DC 24 V		SWITCHING CURRENT		
Switching voltage DC 24 V	5 A / DC-12 4 A / DC-12 0,6 A / DC-13		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			
Vibration resistance:	10g (500 Hz) (EN60068-1-6)			

Zones 1, 2, 21, 22

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

The AB1-D3 push button is designed to control machines and systems in hazardous areas classified as Zone 1/2 and Zone 21/22. Its high IP protection rating and corrosion-resistant stainless steel housing ensure a long service life, even in aggressive environmental conditions. With its particularly flat design and rounded edges, the push button minimizes exposed surfaces, reducing the risk of external damage and dirt accumulation.





ITEM REFERENCES			
Designation:	Changeover:	Cable lenght:	Item No.:
AB1-D3-0301 10		1,5 m	3A1001
AB1-D3-0301 20	1 CO	3 m	3A1002
AB1-D3-0301 30		5 m	3A1003
AB1-D3-0301 40		10 m	3A1004
AB1-D3-0601 10		1,5 m	3A1005
AB1-D3-0601 20	2.00	3 m	3A1006
AB1-D3-0601 30	2 CO	5 m	3A1007
AB1-D3-0601 40		10 m	3A1008

	TECHNICAL SPECIFICATIONS
Marking:	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 VDC / 230 VAC double insulated
Current consumption:	max. 1 A
Electric life:	6.0 E + 03 (230 VAC 1A) 5.0 E + 04 (30 VDC 1A)
Housing:	Stainless steel 1.4305
Mechanical life:	1.0 E + 08 switching cycles
Sealing:	EPDM
Ingress protection:	IP65
Impact resistance:	7 Nm
Mounting hole:	22.0 22.3 mm / M22 x 1.5
Torque:	8 Nm
For housing thickness:	1.0 15.0 mm
Weight:	150 gr (1.5 m)
Type AB1-D3 / 1 CO	
Flying lead:	3 x 0.5 mm ² / Oilflex 100 / Ø 5.4 mm
Electrical connection:	(1) brown = com / (2) black = NC / (3) grey = NO
Type AB1-D3 / 2 CO	
Flying lead:	6 x 0.5 mm ² Ø 6.9 mm
Electrical connection:	(1) brown + (4) blue = com / (2) black + (5) white = NC / (3) grey + (6) orange = NO

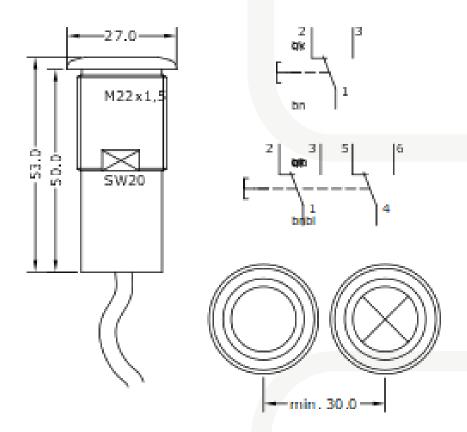


CONNECT and ACT - Due to the approval as a device, this push button can be installed in the front of a machine in the Ex zone without further certification. The low installation depth enables a particularly space-saving use.

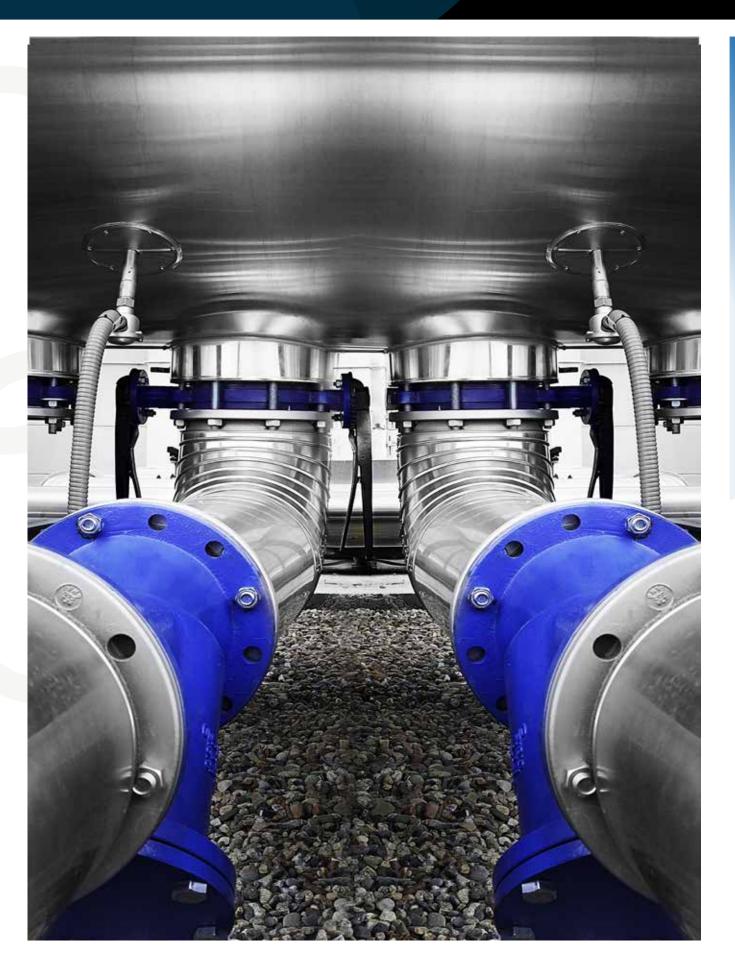
The AB1-D3 push button has also been tested in order to be installed in certified control panels of types of protection Ex e and Ex t.

The scope of delivery includes a plastic lock nut and colored insert labels in red, yellow, green, white and black.

ACCESSORIES	
Description:	Item No.:
Earthing set (earth lug + nut)	216742
Stopping plug M22 x 1.5 VA	216751









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

These polyester local control boxes are used in hazardous areas on machines and in plants to control processes and display states. The robust enclosure made of glass fiber reinforced polyester has good chemical resistance and has proven itself for years in industrial use indoors and outdoors. They are certified for the use in hazardous areas of Zones 1/2 and 21/22.





CONFIGURABLE GRP CONTROL STATIONS







These local control boxes are equipped with push button, selector switch, key switch, emergency stop button, potentiometer, indicator light and illuminated button according to customer specifications.

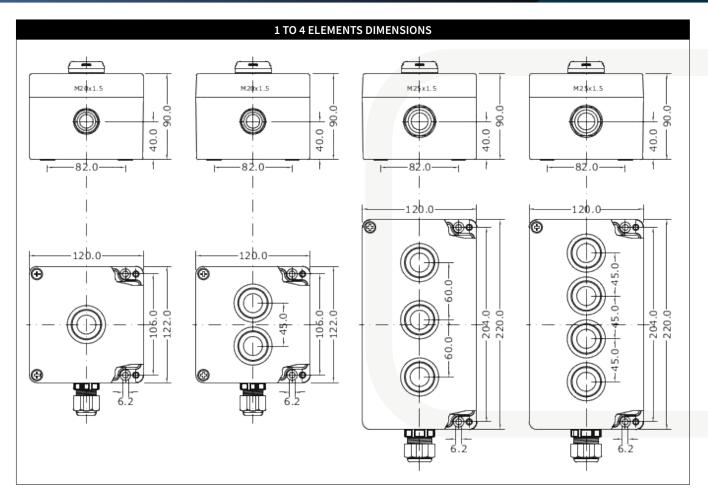
Empty enclosures or loose parts with Ex component certificate and suffix 'U' are not supplied (see standard EN60079-0 section 13.5 Ex component certificate).

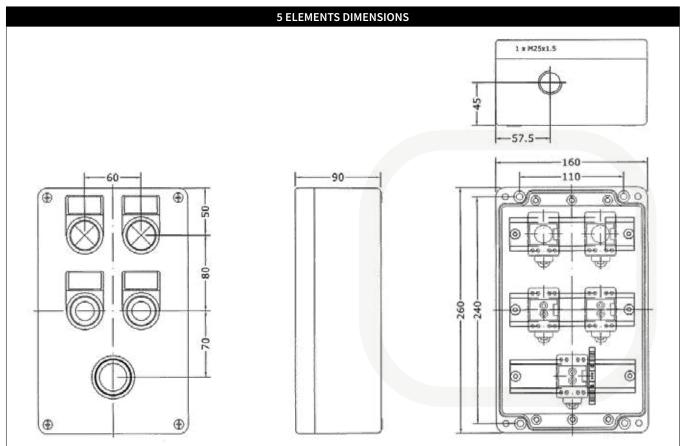


ITEM REFERENCES	
Designation:	Item No.:
Single device enclosure	A21-E1-01209 (1)
Double device enclosure	A21-E1-01209 (2)
Triple device enclosure	A21-E1-02209 (3)
Four device enclosure	A21-E1-02209 (4)
Five device enclosure	A21-E1-02609 (5)

TECHNICAL SPECIFICATIONS		
Marking:	II 2G Ex db eb IIC T6 Gb	
Certificate:	EU-Type Examination Certificate	
Operating temperature:	-20°C to +40°C	
Ingress protection:	IP65	
Material:	Glass fibre reinforced polyester (GRP)	
Sealing:	Silicone	
Torque:	2 - 2,5 Nm	
Operating voltage:	max. 230 V	
Rated current:	max. 5 A	
Cross connection:	max. 2.5 mm ²	







	PUSHBUTTON SELECTION TABLE	
Element:	Designation:	Item No.:
	Pushbutton [momentary] 1NO+1NC Colour: white (bw), black (bb), red (br), green (bg)	bw 1NO+1NC bb 1NO+1NC br 1NO+1NC bg 1NO+1NC
	Pushbutton [momentary] 2NC Colour: white (bw), black (bb), red (br), green (bg)	bw 2NC bb 2NC br 2NC bg 2NC
	Pushbutton [momentary] 2NO Colour: white (bw), black (bb), red (br), green (bg)	bw 2NO bb 2NO br 2NO bg 2NO

DOUBLE PUSHBUTTON SELECTION TABLE		
Element:	Designation:	Item No.:
	Double Pushbutton [momentary] 1NO+1NC Colour: white (bw), black (bb), red (br), green (bg)	d-bw 1NO+1NC d-bb 1NO+1NC d-br 1NO+1NC d-bg 1NO+1NC

SELECTOR SWITCH SELECTION TABLE		
Element:	Designation:	Item No.:
	Selector switch I-0 (2w) 1NO+1NC Selector switch I-0-II (3wI) [I+II latching] 1NO+1NC Selector switch I-0-II (3wm) [I+II momentary] 1NO+1NC Selector switch I-0-II (3wem) [I latching, II momentary] 1NO+1NC Selector switch I-0-II (3wme) [I momentary, II latching] 1NO+1NC	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 latching] 2NC Selector switch I-0-II (3wm) [I+II momentary] 2NC Selector switch I-0-II (3wem) [I latching, II momentary] 2NC Selector switch I-0-II (3wme) [I momentary, II latching] 2NC	2w 2NC 3wl 2NC 3wm 2NC 3wem 2NC 3wme 2NC
	Selector switch I-0 (2w) 2NO Selector switch I-0-II (3wl) [I+II latching] 2NO Selector switch I-0-II (3wm) [I+II momentary] 2NO Selector switch I-0-II (3wem) [I latching, II momentary] 2NO Selector switch I-0-II (3wme) [I momentary, II latching] 2NO	2w 2NO 3wl 2NO 3wm 2NO 3wem 2NO 3wme 2NO

	KEY SELECTOR SWITCH SELECTION TABLE	
Element:	Designation:	Item No.:
	Selector switch I-0 (k-2wl) [I-0 latching, I-0 key withdrawable] 1NO+1NC Selector switch I-0 (k-2wl0) [I-0 latching, 0 key withdrawable] 1NO+1NC Selector switch I-0 (k-2wm0) [I-0 spring return, 0 key withdrawable] 1NO+1NC Selector switch I-0-II (k-3wl) [I-0-II latching, I-0-II key withdrawable] 1NO+1NC Selector switch I-0-II (k-3wl0) [I-0-II latching, 0 key withdrawable] 1NO+1NC Selector switch I-0-II (k-3wm0) [I-0-II spring return, 0 key withdrawable] 1NO+1NC	k-2wl 1NO+1NC k-2wl0 1NO+1NC k-2wm0 1NO+1NC k-3wl 1NO+1NC k-3wl0 1NO+1NC k-3wm0 1NO+1NC
	Selector switch I-0 (k-2wl) [I-0 latching, I-0 key withdrawable] 2NC Selector switch I-0 (k-2wl0) [I-0 latching, 0 key withdrawable] 2NC Selector switch I-0 (k-2wm0) [I-0 spring return, 0 key withdrawable] 2NC Selector switch I-0-II (k-3wl) [I-0-II latching, I-0-II key withdrawable] 2NC Selector switch I-0-II (k-3wl0) [I-0-II latching, 0 key withdrawable] 2NC Selector switch I-0-II (k-3wm0) [I-0-II spring return, 0 key withdrawable] 2NC	k-2wl 2NC k-2wl0 2NC k-2wm0 2NC k-3wl 2NC k-3wl0 2NC k-3wm0 2NC
	Selector switch I-0 (k-2wl) [I-0 latching, I-0 key withdrawable] 2NO Selector switch I-0 (k-2wl0) [I-0 latching, 0 key withdrawable] 2NO Selector switch I-0 (k-2wm0) [I-0 spring return, 0 key withdrawable] 2NO Selector switch I-0-II (k-3wl) [I-0-II latching, I-0-II key withdrawable] 2NO Selector switch I-0-II (k-3wl0) [I-0-II latching, 0 key withdrawable] 2NO Selector switch I-0-II (k-3wm0) [I-0-II spring return, 0 key withdrawable] 2NO	k-2wl 2NO k-2wl0 2NO k-2wm0 2NO k-3wl 2NO k-3wl0 2NO k-3wm0 2NO

Zones 1, 2, 21, 22

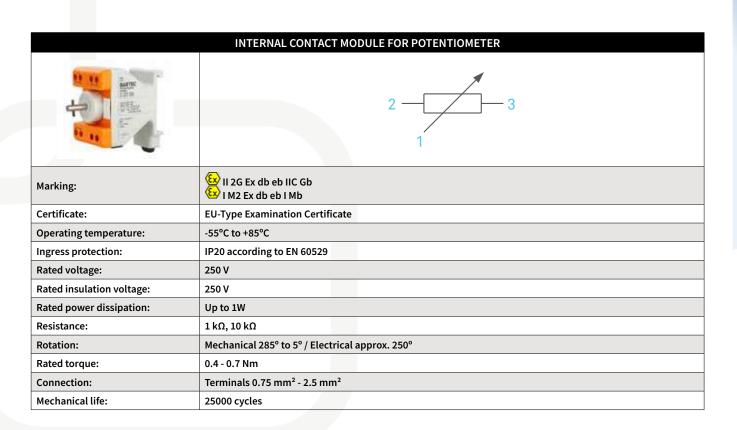


MUSHROOM PUSHBUTTON SELECTION TABLE (MOMENTARY)		
Element:	Designation:	Item No.:
	Mushroom pushbutton [momentary] 1NO+1NC Colour: black	bm 1NO+1NC
	Mushroom pushbutton [momentary] 2NC Colour: black	bm 2NC
-	Mushroom pushbutton [momentary] 2NO Colour: black	bm 2NO

	EMERGENCY STOP PUSHBUTTON SELECTION TABLE	
Element:	Designation:	Item No.:
	Emergency stop pull to release (ep) 1NO+1NC Emergency stop twist to release (et) 1NO+1NC	ep 1NO+1NC et 1NO+1NC
	Emergency stop pull to release (ep) 2NC Emergency stop twist to release (et) 2NC	ep 2NC et 2NC
	Emergency stop pull to release (ep) 2NO Emergency stop twist to release (et) 2NO	ep 2NO et 2NO
		3.2110

INTERNAL C	ONTACT MODULE FOR PUSSBUTTON, EMERGENCY STOP AND	D SELECTOR SWITCH	
Title:	13 23 11 21 13 21 14 24 12 22 14 22		
Marking:	II 2G Ex db eb IIC Gb I M2 Ex db eb I Mb		
Certificate:	EU-Type Examination Certificate		
Operating temperature:	-55°C to +60°C		
Ingress protection:	IP20 according to EN 60529		
Nominal isolation voltage:	690 V		
	Rated voltage:		
400 V	400 V 110 V	60 V	
	Utilization categories:		
AC-12	AC-15 DC-13	DC-13	
Rated operating currents:			
16 A	10 A 1 A	2 A	
Conventional thermal current:	16 A/+40 °C, 11 A/+60 °C		
Connection:	Terminals 2,5 mm ²		
Mechanical life:	10 ⁶ switching cycles		

POTENTIOMETER SELECTION TABLE		
Element:	Designation:	Item No.:
	Potentiometer Colour: black	pb



PILOT LIGHT SELECTION TABLE		
Element:	Designation:	Item No.:
	Pilot light Colours: white (sw), red (sr), green (sg), blue (sb), yellow (sy)	sw sr sg sb sb

Zones 1, 2, 21, 22



INTERNAL MODULE FOR PILOT LIGHTS		
Will State of the	X1 X2	
Marking:	II 2G Ex db eb IIC Gb I M2 Ex db eb I Mb	
Certificate:	EU-Type Examination Certificate	
Operating temperature:	-55 °C to +85 °C	
Ingress protection:	IP20 according to EN 60529	
Rated voltage:	AC/DC 12230V	
Working voltage:	250 V	
Rated insulation voltage:	300 V	
Power consumption:	<1W	
Lamp:	LED (red, green, yellow, white, blue)	
Connection:	Terminals 0.75 mm ² - 2.5 mm ²	
Mechanical life:	10 ⁵ running hours	

ILLUMINATED PUSHBUTTON SELECTION TABLE		
Element:	Designation:	Item No.:
	Illuminated pushbutton [momentary] 1NO Colours: white (sw), red (sr), green (sg), blue (sb), yellow (sy)	sw+1NO sr+1NO sg+1NO sb+1NO sy+1NO
	Illuminated pushbutton [momentary] 1NC Colours: white (sw), red (sr), green (sg), blue (sb), yellow (sy)	sw+1NC sr+1NC sg+1NC sb+1NC sy+1NC

INTERNAL MODULE FOR ILLUMINATED PUSHBUTTON		
2000年	$\begin{bmatrix} 1 & x_1 \\ \hline - & \times \\ 2 & x_2 \end{bmatrix} \begin{bmatrix} 3 & x_1 \\ \hline - & \times \\ 4 & x_2 \end{bmatrix}$	
Marking:	II 2G Ex db eb IIC Gb	
Certificate:	EU-Type Examination Certificate	
Operating temperature:	-55 °C to +85 °C	
Ingress protection:	IP20 according to EN 60529	
Rated voltage:	AC/DC 12230V	
Working voltage:	250 V	
Rated insulation voltage:	300 V	
Utilization categories:	AC-15 - 1 A/230 V DC-13 - 0.25 A/24 V	
Power consumption:	<1W	
Lamp:	LED (red, green, yellow, white, blue)	
Connection:	Terminals 0.75 mm ² - 2.5 mm ²	
Electrical/Mechanical life:	10 ⁵ running hours / 10 ⁵ switching cycles	

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 armoured or non-armoured cable.



ITEM REFERENCES		
Designation:		Item No.:
4	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
-	Pushbutton 1NO+1NC - M20 Nickel-Plated Brass Cable Gland	3J0607
	Pushbutton 2NC - M20 Nickel-Plated Brass Cable Gland	3J0608
	Pushbutton 2NO - M20 Nickel-Plated Brass Cable Gland	3J0609

	TECHNICAL SPECIFICATIONS
Marking:	II 2G Ex db eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db
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			
	13 23 11 21 13 21 E		
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

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





Ex i control stations equipped with a mushroom pushbutton, made of glass-fibre reinforced polyester for use in explosive atmospheres, exclusively in intrinsically safe circuits.

Label is optional.

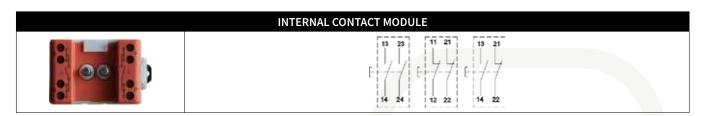


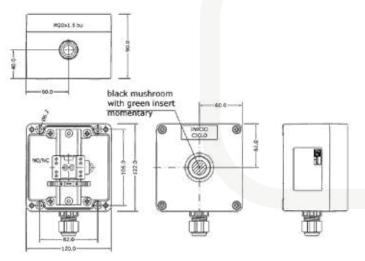


EU-Type Examination Certificate

ITEM REFERENCES	
Designation:	Item No.:
Ex i Pushbutton 1NO+1NC	3J0114
Ex i Pushbutton 2NC	3J0115
Ex i Pushbutton 2NO	3J0116

	TECHNICAL SPECIFICATIONS
Marking:	II 2(1)G Ex db eb ib [ia Ga] IIC T6 Gb II 2(1)D Ex tb [ia Da] IIIC T80°C Db
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 Blue plastic cable gland (4-13mm)





Zones 1, 2, 21, 22

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

ATEX CONTROL STATIONS

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

MUSHROOM TYPE MOMENTARY PUSH BUTTON



Pushbutton panels equipped with a mushroom type momentary pushbutton, made of glass-fibre reinforced polyester for use in explosive atmospheres.

Can be supplied with M20 cable glands for armoured or non-armoured cable.







ITEM REFERENCES		
Designation:	Item No.:	
Mushroom type momentary push button 1NO+1NC - M20 Plastic cable gland	3J0117	
Mushroom type momentary push button 2NC - M20 Plastic cable gland	3J0118	
Mushroom type momentary push button 2NO - M20 Plastic cable gland	3J0119	
Mushroom type momentary push button 1NO+1NC - M20 Brass Cable Gland	3J0120	
Mushroom type momentary push button 2NC - M20 Brass Cable Gland	3J0121	
Mushroom type momentary push button 2NO - M20 Brass Cable Gland 3J012		
Mushroom type momentary push button 1NO+1NC - M20 Nickel-Plated Brass Cable Gland 3J0123		
Mushroom type momentary push button 2NC - M20 Nickel-Plated Brass Cable Gland	3J0124	
Mushroom type momentary push button 2NO - M20 Nickel-Plated Brass Cable Gland	3J0125	

TECHNICAL SPECIFICATIONS		
Marking:	II 2G Ex db eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db	
Certificate:	EU-Type Examination Certificate	
Operating temperature:	-20°C to +40°C	
Ingress protection:	IP65	
Material:	Glass fibre reinforced polyester (GRP)	
Colour:	Black	
Cable entries:	1xM20x1,5	

INTERNAL CONTACT MODULE			
	13 23 11 21 13 21 14 24 12 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

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



Pushbutton panels equipped with a mushroom type latching pushbutton, made of glass-fibre reinforced polyester for use in explosive atmospheres.

Can be supplied with M20 cable glands for armoured or non-armoured cable.







ITEM REFERENCES		
Designation:	Item No.:	
Mushroom type latching push button 1NO+1NC - M20 Plastic cable gland	3J0126	
Mushroom type latching push button 2NC - M20 Plastic cable gland	3J0127	
Mushroom type latching push button 2NO - M20 Plastic cable gland	3J0128	
Mushroom type latching push button 1NO+1NC - M20 Brass Cable Gland	3J0129	
Mushroom type latching push button 2NC - M20 Brass Cable Gland 3J0130		
Mushroom type latching push button 2NO - M20 Brass Cable Gland	3J0131	
Mushroom type latching push button 1NO+1NC - M20 Nickel-Plated Brass Cable Gland	3J0132	
Mushroom type latching push button 2NC - M20 Nickel-Plated Brass Cable Gland	3J0133	
Mushroom type latching push button 2NO - M20 Nickel-Plated Brass Cable Gland	3J0134	

TECHNICAL SPECIFICATIONS		
Marking:	II 2G Ex db eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db	
Certificate:	EU-Type Examination Certificate	
Operating temperature:	-20°C to +40°C	
Ingress protection:	IP65	
Material:	Glass fibre reinforced polyester (GRP)	
Colour:	Black	
Cable entries:	1xM20x1,5	

INTERNAL CONTACT MODULE				
	15 23 11 21 13 21 14 22 14 22			
Marking:	II 2G Ex de IIC Gb I M2 Ex de I Mb			
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	

Zones 1, 2, 21, 22

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	
-	Indicator light - RED		3J0802	
	Indicator light - GREEN	M20 Plastic cable gland	3J0803	
	Indicator light - BLUE		3J0804	
•	Indicator light - YELLOW		3J0805	
	Indicator light - WHITE	M20 Brass Cable Gland	3J0806	
	Indicator light - RED		3J0807	
	Indicator light - GREEN		3J0808	
	Indicator light - BLUE		3J0809	
£	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	
	Indicator light - YELLOW		3J0815	

	TECHNICAL SPECIFICATIONS			
Marking:	II 2G Ex db eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db			
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 INDICATOR LIGHTS			
	X1		
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		

CONTROL & CONNECTION EQUIPMENT (🐒 🛧

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

Can be supplied with M20 cable glands for armored or non-armored cable.



ITEM REFERENCES				
Designation:		Item No.:		
	3 Way Selector Switch I-0-II (latching I+II) 1NO+1NC - M20 Plastic cable gland	3J0701		
	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		
777	3 Way Selector Switch I-0-II (latching I+II) 1NO+1NC - M20 Nickel-Plated Brass Cable Gland	3J0707		
	3 Way Selector Switch I-0-II (latching I+II) 2NC - M20 Nickel-Plated Brass Cable Gland	3J0708		
846	3 Way Selector Switch I-0-II (latching I+II) 2NO - M20 Nickel-Plated Brass Cable Gland	3J0709		

TECHNICAL SPECIFICATIONS			
Marking:	II 2G Ex db eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db		
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				
	13 23 11 21 13 21 14 24 12 22 14 22			
Marking:	II 2G Ex de IIC Gb I M2 Ex de I Mb			
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	

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

ATEX CONTROL STATIONS

Zones 1, 2, 21, 22

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:					
	Emergency Mushroom Button (e) 1NO+1NC - M20 Brass Cable Gland	3J0101			
MOT AUG PULL RELEASE &	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 db eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db			
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 (13,2-20,5 mm)			

INTERNAL CONTACT MODILLE				
	INTERNAL CONTACT MODULE 13 23 11 21 13 21 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

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 armoured cable.

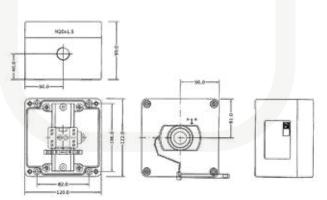




ITEM REFERENCES					
Designation:	Designation: Item No.:				
	Emergency Mushroom Button w/ Protection Hood 1NO+1NC - M20 Brass Cable Gland	3J0107			
	Emergency Mushroom Button w/ Protection Hood 2NC - M20 Brass Cable Gland	3J0108			
	Emergency Mushroom Button w/ Protection Hood 2NO - M20 Brass Cable 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				
	13 23 11 21 13 21 14 24 112 22 114 22			
Marking:	II 2G Ex de IIC Gb I M2 Ex de I Mb			
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 db eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db		
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-plate brass cable gland (13,2-20,5 mm		



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.:
AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	Emergency Mushroom Button (e) 1NO+1NC - M20 Plastic cable gland	3J0201
Burne B	Emergency Mushroom Button (e) 2NC - M20 Plastic cable gland	3J0202
A DENCE S	Emergency Mushroom Button (e) 2NO - M20 Plastic cable gland	3J0203

TECHNICAL SPECIFICATIONS		
Marking:	II 2G Ex db eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db	
Certificate:	EU-Type Examination Certificate	
Operating temperature:	-20°C to +40°C	
Ingress protection:	IP65	
Material:	Glass fibre reinforced polyester (GRP)	
Cable entries:	ies: 1xM20x1,5 Plastic cable gland (7 - 13 mm)	

	INTERNAL CONTACT MODULE		
	13 23 11 21 13 21 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		

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.

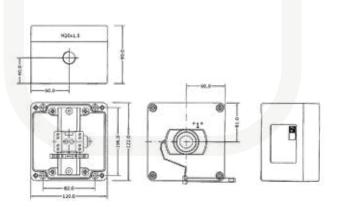
Equipped with M20 brass or nickel-plated brass cable glands for installation with unarmoured



ITEM REFERENCES		
Designation:		Item No.:
4 - 5	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
	Emergency Mushroom Button w/ Protection Hood 2NO - M20 Plastic cable gland	3J0206

INTERNAL CONTACT MODULE			
	13 23 11 21 13 21 14 22 114 22		
Marking:	II 2G Ex de IIC Gb I M2 Ex de I Mb		
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 db eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db		
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 (gas) & 21, 22 (dust)



4-pole Ex e emergency mushroom made of glass fibre reinforced polyester for application in hazardous areas.

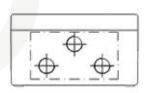
Supplied with 3 M20 entries for armoured or non-armoured cable.



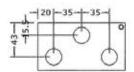


ITEM REFERENCES	
Designation:	Item No.:
4-Pole Emergency Stop	3J0113

	TECHNICAL SPECIFICATIONS		
Marking:	II 2G Ex db eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db		
Certificate:	EU-Type Examination Certificate		
Operating temperature:	-20°C to +40°C		
Ingress protection:	IP65		
External electrical devices:	4-pole Emergency stop mushroom 4NC		
Internal mounting plate:	2 PE terminals WPE4		
Material:	Glass fibre reinforced polyester (GRP)		
Cable entries:	3xM20x1,5 (cable glands / plugs not included)		

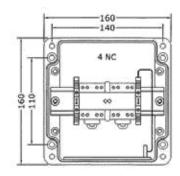


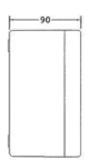
Side B: 3 tapped holes M20x1,5



earth plate 110x60x3mm with 3 holes Ø20.5mm







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



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.:
َ پُ َ	Potentiometer 1 kOhm (scale 010)	– M20 Plastic cable gland	3J0901
	Potentiometer 10 kOhm (scale 010)		3J0904
()	Potentiometer 1 kOhm (scale 010)	M20 Brass Cable Gland	3J0905
	Potentiometer 10 kOhm (scale 010)	M20 Brass Cable Glaffu	3J0908
	Potentiometer 1 kOhm (scale 010)	M20 Nickel-Plated Brass Cable Gland	3J0909
	Potentiometer 10 kOhm (scale 010)	MZU NICKEI-Plateu Brass Cable Gland	3J0912

TECHNICAL SPECIFICATIONS		
Marking:	II 2G Ex db eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db	
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:	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

Zones 1, 2, 21, 22

ATEX CONTROL STATIONS

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

START-STOP CONTROL STATION - ARMOURED CABLE



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 db eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db		
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 (13,2-20,5 mm)		

INTERNAL CONTACT MODULE				
	13 23 11 21 13 21 14 22 14 22			
Marking:	II 2G Ex de IIC Gb I M2 Ex de I Mb			
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			

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 db eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db			
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			
	13 23 11 21 13 21 14 24 112 22 114 22		
Marking:	II 2G Ex de IIC Gb I M2 Ex de I Mb		
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

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

START-EMERGENCY STOP CONTROL STATION



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 db eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db			
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				
	13 23 11 21 13 21 14 22 14 22			
Marking:	II 2G Ex de IIC Gb I M2 Ex de I Mb			
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			

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



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: Ite			
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:	II 2G Ex db eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db			
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				
	13 23 11 21 13 21 14 24 112 22 114 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	

COMPACT S-S-E CONTROL STATION - 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)



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:	II 2G Ex db eb 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 (13,2-20,5 mm)		

INTERNAL CONTACT MODULE				
Marking: II 2G Ex de IIC Gb I M2 Ex de I Mb				
Certificate:	Certificate: EU-Type Examination Certificate			
Operating temperature:	Operating temperature: -55°C to +60°C			
Ingress protection: IP20				
Nominal isolation voltage:	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				

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 db eb 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:	II 2G Ex de IIC Gb			
Certificate:	Certificate: EU-Type Examination Certificate			
Operating temperature:	-55°C to +60°C			
Ingress protection:	ngress 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-STOP-EMERGENCY CONTROL STATION - 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)



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 db eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db			
Certificate:	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 Brass or nickel-plated brass cable gland (13,2-20,5 mm)		

INTERNAL CONTACT MODULE				
	13 23 11 21 13 21 14 24 112 22 114 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	

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



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: Il 2G Ex db eb IIC T6 Gb Il 2D Ex tb III C T80°C Db		
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 21 14 22 14 22			
Marking:	II 2G Ex de IIC Gb I M2 Ex de I Mb			
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	

DOUBLE PUSHBUTTONS-EMERGENCY CONTROL STATION

Zones 1, 2, 21, 22

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

ATEX CONTROL STATIONS

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



ATEX-certified control panels equipped with 2 double pushbuttons and an emergency stop button, certified for use in hazardous areas, made of glass-fibre reinforced polyester for use in explosive atmospheres.











EU-Type Examination Certificate

ITEM REFERENCES			
Designation:	Item No.:		
2 Double Pushbutton 1NO+1NC (GREEN-RED) - Emergency Stop 2NC Plastic cable gland M25 (10-17mm)	3J0135		
2 Double Pushbutton 1NO+1NC (GREEN-RED) - Emergency Stop 2NC Brass Cable Gland M25 (13,2-20,5mm)	3J0136		
2 Double Pushbutton 1NO+1NC (GREEN-RED) - Emergency Stop 2NC Brass Cable Gland M25 (17-26mm)	3J0137		
2 Double Pushbutton 1NO+1NC (GREEN-RED) - Emergency Stop 2NC Nickel-plated Brass Cable Gland M25 (13,2-20,5mm)	3J0138		
2 Double Pushbutton 1NO+1NC (GREEN-RED) - Emergency Stop 2NC Nickel-plated Brass Cable Gland M25 (17-26mm)	3J0139		

	TECHNICAL SPECIFICATIONS			
Marking:	II 2G Ex db eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db			
Certificate:	EU-Type Examination Certificate			
Operating temperature:	-20°C to +40°C			
Ingress protection:	IP65			
Material:	Glass fibre reinforced polyester (GRP)			
Dimensions:	220x120x90mm			
Cable entries::	1xM25x1,5			

INTERNAL CONTACT MODULE				
		13 23 11 21 13 21 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	

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 db eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db
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
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

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

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.

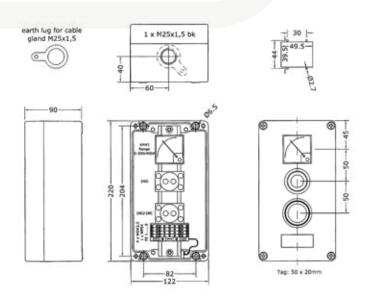
With brass or nickel-plated brass M25 cable gland for installation with armoured cable or polyamide M25 cable gland for unarmoured cable.





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:	II 2G Ex db eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db		
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)		





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

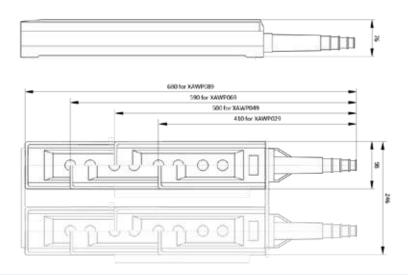


ITEM REFERENCES			
Designation:	Item No.:		
2-element pendant station	XAWP029		
4-element pendant station	XAWP049		
6-element pendant station	XAWP069		
8-element pendant station	XAWP089		
12-element pendant station	XAWP069D		
16-element pendant station	XAWP089D		

TECHNICAL SPECIFICATIONS			
Marking:	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)		
	Ith = 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		

	OPERATORS	
Pushbuttons	White	XAWP9411
	Black	XAWP9412
	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
	3 fixed positions - Black	XBW5AD33
Emergency Mushroom head (Ø 40)	Red	XBW5AS844-XAWP
Emergency Mushroom head (Ø 30)	Red	XBW5AS834-XAWP

ARROW FOR DO	OUBLE STEP PUSHBUTTON	ARROW FOR SIN	GLE STEP PUSHBUTTON
Туре:	Item No.:	Туре:	Item No.:
IP	ZBWY4953	UP	ZBWY4951
OWN	ZBWY2956	DOWN	ZBWY2954
IGHT	ZBWY4903	RIGHT	ZBWY4901
:FT	ZBWY2906	LEFT	ZBWY2904
DRWARD	ZBWY4965	FORWARD	ZBWAY4963
EVERSE	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





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 inter-lockable mechanism 2 speeds, 2NO contact per function, "Up" and "Down" twin arrows.
- 1 white/black booted pushbutton with inter-lockable mechanism 2 speeds, 2NO contact per function, "Left" and "Right" twin arrows.
- 1 Plug
- 1 emergency stop Ø40 mushroom turn to release, 2NC contact, "Emergency Stop"



ITEM REFERENCES			
Designation:	Use:	Zones:	Item No.:
6-element pendant station	Indoor/Outdoor	1,2,21,22	3J1008

TECHNICAL SPECIFICATIONS		
Marking:	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:	590x98x76 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	

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 inter-lockable mechanism 2 speeds, 2 NO contact per function, "Up" and "Down" twin arrows.
- 1 white/black booted pushbutton with inter-lockable mechanism 2 speeds, 2 NO contact per function, "Left" and "Right" twin arrows.
- 1 white/black booted pushbutton with 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, 2NC contact, "Emergency Stop"



ITEM REFERENCES			
Designation:	Use:	Zones:	Item No.:
8-element pendant station V1	Indoor/Outdoor	1,2,21,22	3J1006

TECHNICAL SPECIFICATIONS		
Marking:	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:	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	

CONTROL & CONNECTION EQUIPMENT (3) 1

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 inter-lockable mechanism 2 speeds, 2NO contact per function, "Up" and "Down" twin arrows.
- 1 white/black booted pushbutton with inter-lockable mechanism 2 speeds, 2NO contact per function, "Left" and "Right" twin arrows.
- 1 green booted pushbutton, 1NO contact, "I". 1 red booted pushbutton, 1NC contact, "0".
- 1 Plug
- 1 emergency stop Ø40 mushroom turn to release, 2NC contact, "Emergency Stop"



ITEM REFERENCES			
Designation:	Use:	Zones:	Item No.:
8-element pendant station V2	Indoor/Outdoor	1,2,21,22	3J1009

TECHNICAL SPECIFICATIONS		
Marking:	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:	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	Indoor/Outdoor	1,2,21,22	3J1002

TECHNICAL SPECIFICATIONS			
Marking:	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:	603x246x76 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		

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, "FEVERSE" slow/fast



	ITEM REFERENCES		
Designation:	Use:	Zones:	Item No.:
16-element pendant station	Indoor/Outdoor	1,2,21,22	3J1003

	TECHNICAL SPECIFICATIONS		
Marking:	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 = 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		

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.





Fully configurable through a huge variety of elements.

ITEM REFERENCES					
Designation:	Cable entries: A B C V		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:	II 2G Ex d IIC o IIB+H2 T6-T4 Gb II 2D 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:	U _{imp} =6 kV	
Short circuit protection Ue<500 VAC:	10 A	
Terminals:	According to IEC/EN 60947-1	
Max. wires section:	2x2,5 mm²	
Working cycles:	1800 operations/hr (max)	

TEMPERATURES			
C	Temp. class:		May T Dansa
Command/Signalling:	Gas	Dust	Max. T. Range:
LED lamps	Т6	T85°C	-50°C to +60°C
	T5	T100°C	-50°C to +80°C
Command units	T6	T85°C	-50°C to +80°C

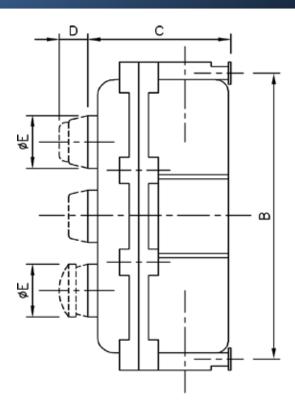
AC15 - A600			
Voltage:	24 V	240 V	400 V
Current:	10 A	6 A	4 A

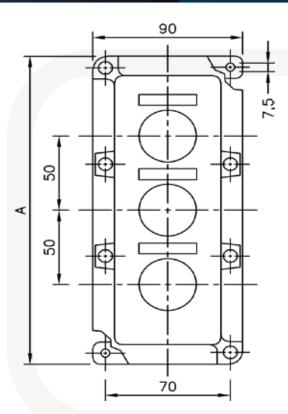
DC13 - Q600			
Voltage:	24 V	125 V	250 V
Current:	2,8 A	0,55 A	0,27 A

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		





ELEMENTS						
Decimation	Dimensio	ons (mm):		W. * L. / . \		
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		

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



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:	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)

EU-Type Examination Certificate

ATEX CONTROL STATIONS

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

The Emergency Stop AB1-N3 ensures reliable and safe shutdown of machines and systems in hazardous areas classified as Zones 1/2 and Zones 21/22. Designed with a robust stainless steel housing and a high IP protection rating, it guarantees a long service life even in harsh and corrosive environments.

CONNECT and ACT - Certified for use as a standalone device, the Emergency Stop can be directly installed on the front panel of a machine within an Ex zone without requiring additional approvals. Its compact design with a low installation depth allows for particularly space-saving integration.

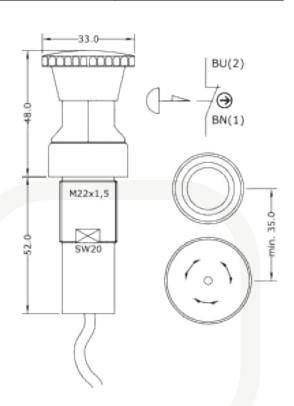
Additionally, the Emergency Stop has been rigorously tested for installation in certified control panels with protection types Ex e and Ex t.

The delivery package includes a durable plastic lock nut for secure installation.



ITEM REFERENCES					
Designation:	Cable lenght:	Item No.:			
AB1-N3-2101 10	1,5 m	3A1101			
AB1-N3-2101 20	3 m	3A1102			
AB1-N3-2101 30	5 m	3A1103			
AB1-N3-2101 40	10 m	3A1104			

TECHNICAL SPECIFICATIONS					
Marking:	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 +55°C				
Operating voltage:	24 VDC / 230 VAC double insulated				
Current consumption:	max. 1 A				
Flying lead:	2 x 0.5 mm ² Ø 4.8 mm				
Electrical connection:	(1) brown = com / (2) blue = NC				
Electric life:	10.000 switching cycles				
Housing:	Stainless steel 1.4305				
Mechanical life:	1.0 E + 08 switching cycles				
Sealing:	EPDM				
Ingress protection:	IP66				
Impact resistance:	7 Nm				
Mounting hole:	22.0 22.3 mm / M22 x 1.5				
Torque:	8 Nm				
For housing thickness:	1.0 15.0 mm				
Weight:	300 gr (1.5 m)				



ACCESSORIES	
Description:	Item No.:
Earthing set (earth lug + nut)	216742
Stopping plug M22 x 1.5 VA	216751

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

The Emergency Stop AB1-E3 ensures safe and reliable shutdown of machines and systems in hazardous areas classified as Zones 1/2 and 21/22. Equipped with up to three switching contacts, it allows for secure disconnection while providing additional feedback functionality.

Built for durability, the Emergency Stop features a corrosionresistant stainless steel housing and a high IP protection rating, guaranteeing long service life even in aggressive or demanding environmental conditions.

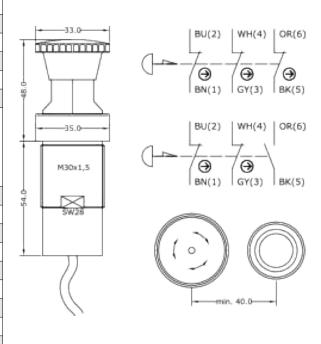
CONNECT and ACT - Certified for use as a device, the Emergency Stop can be installed directly on the front of a machine within Ex zones without requiring additional approvals. Its compact design with a low installation depth facilitates space-saving integration. Additionally, the Emergency Stop has been rigorously tested and approved for installation in certified control panels designed with Ex e and Ex t protection types.

The delivery package includes a plastic lock nut.



ITEM REFERENCES							
Designation:	Contacts:	Cable lenght:	Item No.:	Designation:	Contacts:	Cable lenght:	Item No.:
AB1-E3-2301 10		1,5 m	3A1201	AB1-E3-2101 10	2x positive	1,5 m	3A1205
AB1-E3-2301 20	3x positive	3 m	3A1202	AB1-E3-2101 20	breaking	3 m	3A1206
AB1-E3-2301 30	breaking contact	5 m	3A1203	AB1-E3-2101 30	contact 1x normally	5 m	3A1207
AB1-E3-2301 40		10 m	3A1204	AB1-E3-2101 40	open contact	10 m	3A1208

TECHNICAL SPECIFICATIONS					
Marking:	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 +55°C				
Operating voltage:	24 VDC / 230 VAC double insulated				
Current consumption:	max. 1 A				
Flying lead:	6 x 0.5 mm ² Ø 6.9 mm				
Electrical connection:	(1) brown = com 1 (2) blue = NC 1 (3) grey = com 2 (4) white = NC 2 (5) black = com 3 (6) orange = contact 3				
Electric life:	10.000 switching cycles				
Housing:	Stainless steel 1.4305				
Mechanical life:	1.0 E + 08 switching cycles				
Sealing:	EPDM				
Ingress protection:	IP66				
Impact resistance:	7 Nm				
Mounting hole:	30.0 30.3 mm / M30 x 1.5				
Torque:	8 Nm				
For housing thickness:	1.0 15.0 mm				
Weight:	350 gr (1.5 m)				



ACCESSORIES	
Description:	Item No.:
Earthing set (earth lug + nut)	226550

CONTROL & CONNECTION EQUIPMENT (🕸 🛧

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.

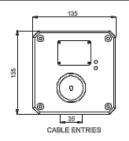
There are two versions available: push button and push button with key to release.

Housing is moulded Glass-Reinforced Polyester (GRP), dyed in the mass and protected by a paint UV resistant.

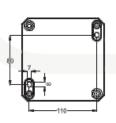


	PRODUCT CODE CONFIGURATOR							
SWITCH	DUTY LABEL	TAG LABEL	RESET	LED INDICATOR	FEATURES	CABLE ENTRIES	ENTRY POSITION	FINISH COLOUR
	Υ	Υ	S	L = RED & GREEN	F = LIFT FLAP	A = M20	Т	RD = RED
SINGLE	= YES	= YES	= SELF RESET	R = RED	R = RESISTOR	B = M25	= TOP	YW = YELLOW
=	1.22	1-2						BU = BLUE
1 x C/O	N =	N =	K =	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:	2G Ex d C + H2 T6 Gb 2D Ex tb 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	







CONTROL & CONNECTION EQUIPMENT 😵 🛧

ATEX MANUAL CALL POINT

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

EMERGENCY PUSHBUTTON WITH BREAKING GLASS

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).

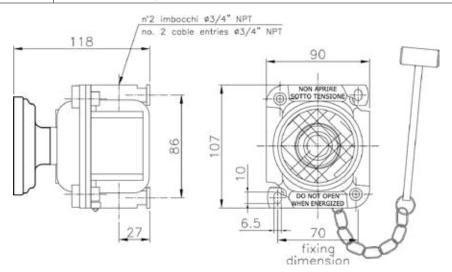
PB1 E1: The breaking of the glass releases the button that shall be pressed to open and / or close a contact (1NO+1NC).



- 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:	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)



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 or Special Alarm according to EN 12094/EN 12094-1.

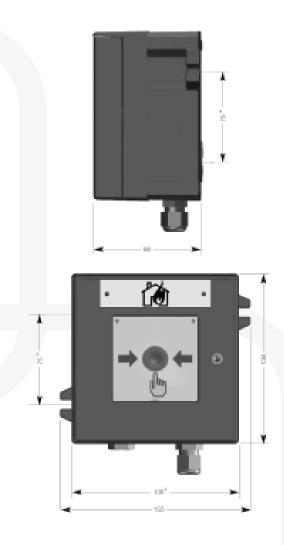
Flexible, system-suited application thanks to different resistor modules.

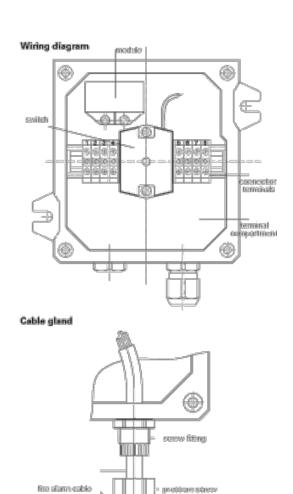
The housing is made of glass fibre-reinforced polyester, which ensures its corrosion protection as well as its classification for protection classes II and III. Therefore, an equipotential bonding conductor is not needed.



	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						

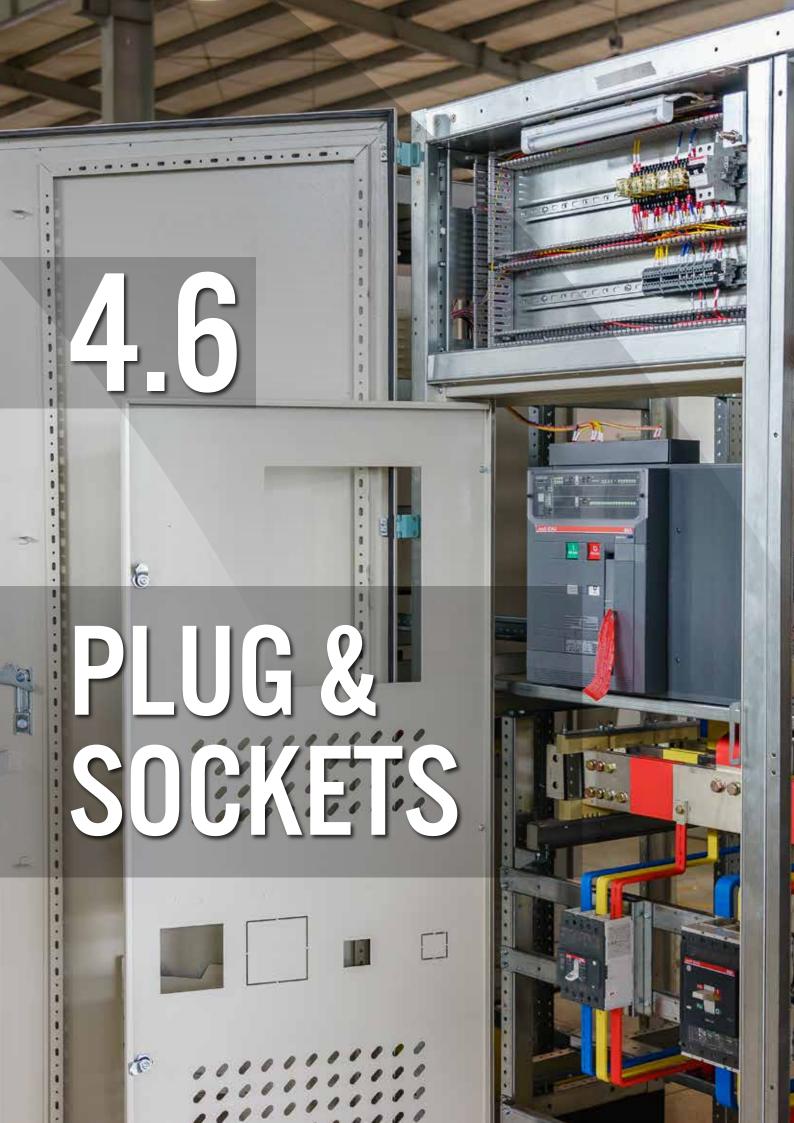
	TECHNICAL SPECIFICATIONS
Marking:	II 2G Ex de mb IIC/T6 Gb, T5 Gb II 2D Ex tb IIIC T100°C Db IP66
Certificate:	EU-Type Examination Certificate
Housing:	Glass fibre reinforced polyester Fire alarm: red RAL 3000. Special alarm: yellow or blue on request
Surface resistance:	Electrostatially conductive
Operating temperature:	-55°C to +65°C (T6) -55°C to +85°C (T5)
Switching contact:	Changeover contact (embedded, II 2G Ex d II C)
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:	IP66 according to IEC 60529
Protection class:	II and III (no equipontial bonding necessary)
Operating conditions:	Indoors and outdoors
Operating position:	Wall mounting
Cable entries:	1x M16x1.5 plastic cable gland, cable clamping range Ø4-8 mm 1x M16x1.5 plastic blind plug











Zones 1, 2, 21, 22

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

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:	current: Rated voltage: Poles: Wall mounting socket: Plugs:							
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	63A					
Marking:	II 2G Ex de IIC T*Gb 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				

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.

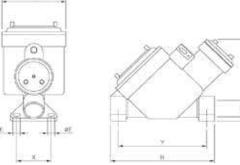


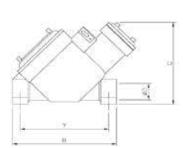


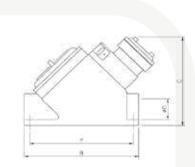
TECHNICAL CRECIFICATIONS						
	TECHNICAL SPECIFICATIONS					
Marking:	II 2G Ex d IIC T6 Gb II 2D Ex tb IIIC T80°C Db IP66					
Certificate:	EU-Type Examination Certificate					
Housing:	Aluminium					
Operating conditions:	Indoor / Outdoor					
Ingress protection:	IP66					
Operating temperature:	-20°C to +40°C					

	ITEM REFERENCES - SOCKETS											
Designation:	Comments Valtages De	Polos		Dimensions (mm)					Item No.:			
Designation.	Current:	Voltage:	Poles: 2 Cable Entries: A	Α	В	С	ØD	ØE	Х	Υ	iteiii 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

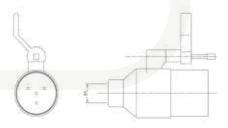






FSQ 360 - 460 / FSQA ...

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	500 V 3P+T 3/4" NP		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		



Zones 1, 2, 21, 22

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





Certified explosion-proof plugs and sockets, with integrated load-break switch.

Locking in connected or disconnected position by keying axis.



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		

	TECHNICAL SPECIFICATIONS
Marking:	(EX) 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

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:	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

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 PLUGS 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			

TECHNICAL SPECIFICATIONS			
Marking:	II 2G Ex de IIC T*Gb II 2D Ex tb IIIC T*Db		
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)		

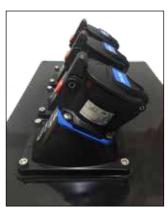
ZONES 1, 2 (gas) & 21, 22 (dust)

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.

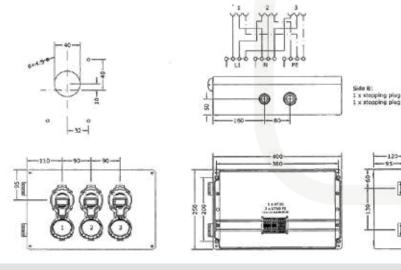






		ITEM REFERENCES		
Designation:	Rated current:	Rated voltage:	Poles:	Item No.:
3-outlet rack 1PH+N+PE	20A	220/250V	1PH+N+PE	6F0110

TECHNICAL SPECIFICATIONS			
Marking:	II 2G Ex db eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db		
Certificate:	EU-Type Examination Certificate		
Operating temperature:	-20°C to +40°C		
Material:	Polyester black		
Dimensions:	400x250x120 mm		
Operating conditions:	Indoor / Outdoor		
Terminals:	5x 10 mm² and 3 x10 mm² PE		
Outlets:	3 sockets 20A 1PH+N+PE (plugs included)		
Ingress protection:	IP65		
Cable entries:	1 M25x1,5 1 M32x1,5 plugged		



3 SOCKET DISTRIBUTION UNIT: 2 - 1PH+N+PE / 1 - 3PH+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 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.



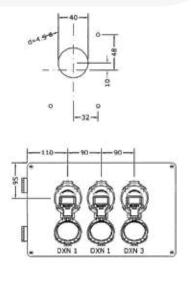


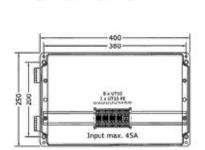
The cable glands are supplied separately

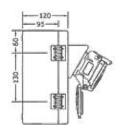
ITEM REFERENCES					
Designation: Rated current: Rated voltage: Poles: Item No.:					
3-outlet rack (2 - 1PH+N+PE 20A / 1 - 3PH+PE 32A)	20A 32A	220/250V 380/440V	1P+N+T 3P+T	6F0113	

	TECHNICAL SPECIFICATIONS			
Marking:	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:	8x10 mm² and 2x10 mm² 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			

20 -







1 x stopping plug M25x1.5 bk 1 x stopping plug M32x1.5 bk

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.

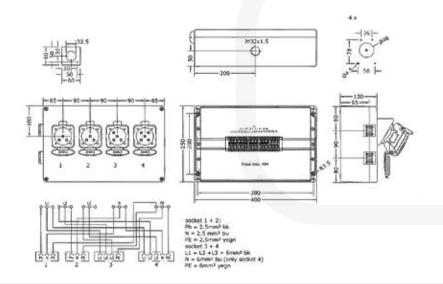




The cable gland is supplied separately

ITEM REFERENCES					
Designation:	Rated current:	Rated voltage:	Poles:	Item 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:	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 mm² y 3x10 mm² 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

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 sockets 20A 220/250V 1PH+N+PE, 2 ATEX sockets 32A 380/440V 3PH+N+PE and their respective plugs.



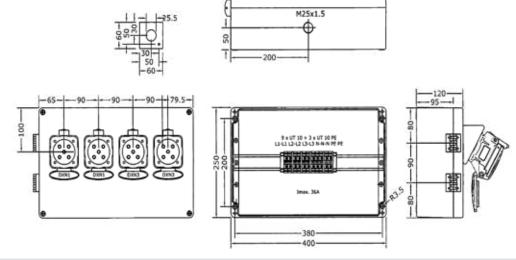


The cable gland is supplied separately

ITEM REFERENCES				
Designation: Rated current: Rated voltage: Poles: Item No.:				
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				

TECHNICAL SPECIFICATIONS					
Marking:	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:	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				





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



ATEX-certified 6-outlet rack for fixed installation in hazardous areas.

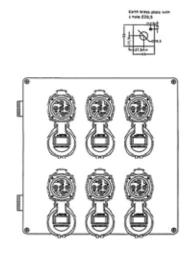
Equipped with 6 ATEX sockets 20A 220/250V 1PH+N+PE and their respective plugs. Hinged lid.

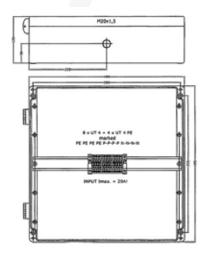


The cable gland is supplied separately

		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:	II 2G Ex ed IIC T6 Gb II 2D Ex tb IIIC T80°C					
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					







CONTROL & CONNECTION EQUIPMENT

ATEX PLUGS & SOCKETS

ZONES 0, 1, 2 (gas)

The connection elements on electrical devices are designed to facilitate quick and efficient maintenance or calibration. These Ex i connection elements are specifically engineered for use with intrinsically safe circuits.

Certified according to the latest standards, these components are classified as simple electrical devices suitable for operation in zones 0, 1 and 2.

In addition to being used within enclosures, these connection elements can also function as coupling units to extend cables.

The Ex i connection elements are available in three distinct encoding options. Thanks to their high IP protection rating and broad ambient temperature range, these components are built to perform reliably in harsh environmental conditions.



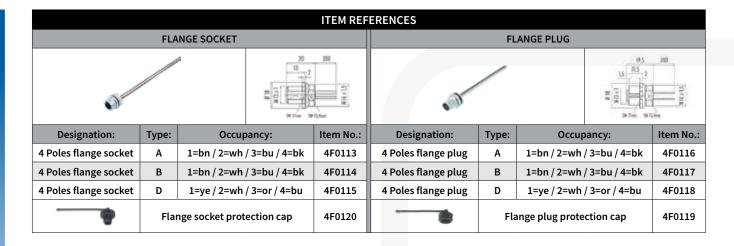
NOTE: this connection elements are for the use with intrinsically safe circuits



		VARI	ANTS		
Male A	Female A	Male B	Female B	Male D	Female D
3 • • • • • • • • • • • • • • • • • • •	10 0 3 0 4	****		\$5 ⁵	

ITEM REFERENCES								
	cou	PLER			PL	UG		
		20 E	SW Norm Stations/ Stations/ Stations/			Selve Selve Selve		
Designation:	Type:	Connection:	Item No.:	Designation:	Type:	Connection:	Item No.:	
4 Poles coupler	Α	M12x1 - Ø6-8	4F0101	4 Poles plug	Α	M12x1 - Ø4-6	4F0107	
4 Poles coupler	Α	M12x1 - Ø4-6	4F0102	4 Poles plug	Α	M12x1 - Ø6-8	4F0108	
4 Poles coupler	В	M12x1 - Ø4-6	4F0103	4 Poles plug	В	M12x1 - Ø6-8	4F0109	
4 Poles coupler	В	M12x1 - Ø6-8	4F0104	4 Poles plug	В	M12x1 - Ø4-6	4F0110	
4 Poles coupler	D	M12x1 - Ø6-8	4F0105	4 Poles plug	D	M12x1 - Ø4-6	4F0111	
4 Poles coupler	D	M12x1 - Ø4-6	4F0106	4 Poles plug	D	M12x1 - Ø6-8	4F0112	
	Coupler protection cap		4F0121		Plug prote	ection cap	4F0122	

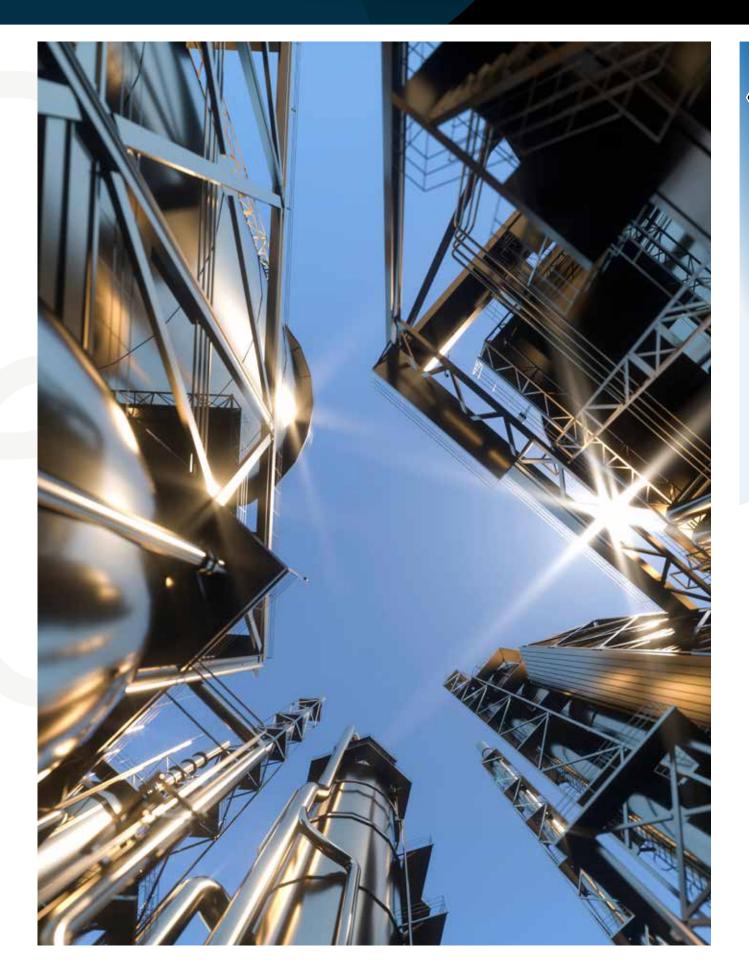




TECHNICAL SPECIFICATIONS						
Marking:	😥 II 1G Ex ia IIC T6 Ga					
Certificate:	According to 2014/34/EU					
Operating temperature:	-40°C to +40°C					
Operating voltage:	max. 60V					
Current consumption:	max. 2A					
Connection:	Coupler+Plug: max. 4 x 0.75 mm ² Flange socket + plug: 4 x 0.25 mm ²					
Material:	Die-cast zinc (nickel plated)					
Ingress protection:	IP66/67					
Coupler + plug:	M12 x 1					
Flange socket + plug:	M16 x 1.5					









LIMIT SWITCHES XCWD SERIES

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

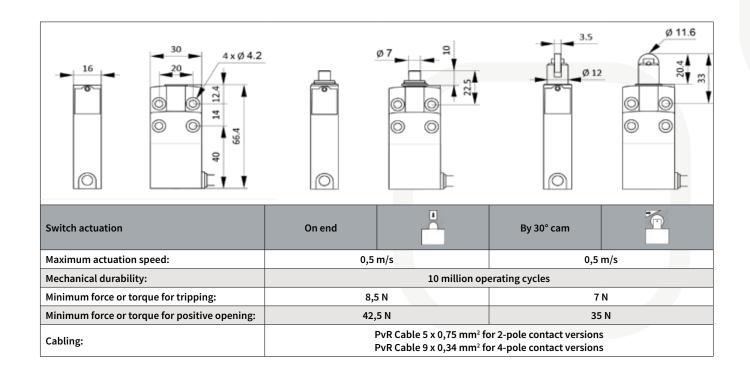


Heads that can be adjusted from 15° to 15° on 360° relative to the body

TECHNICAL SPECIFICATIONS				
Marking:	II 2G Ex d IIC T6 GbII 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:	≤ 25 mΩ 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, Ie = 1.5 A) DC-13; R300 (Ue = 250 V, Ie = 0.1 A)	AC-15 ; C300 (Ue = 240 V, Ie = 0.75 A) DC-13 ; R300 (Ue = 250 V, Ie = 0.1 A)			

	H	HEAD WITH STRAIGH	HT MOVEMENT. FIX	KING BY THE BODY			
Actuator type		Metal end plunger			Steel roller plunger		
		2 CONTACTS	4 CONTACTS	4	2 CONTACTS	4 CONTACTS	
1 m cable length		XCWD2110L1	XCWD4110L1		XCWD2102L1	XCWD4102L1	
2 m cable length		XCWD2110L2	XCWD4110L2	100	XCWD2102L2	XCWD4102L2	
5 m cable length		XCWD2110L5	XCWD4110L5		XCWD2102L5	XCWD4102L5	
10 m cable length		XCWD2110L10	XCWD4110L10	€	XCWD2102L10	XCWD4102L10	
	H	HEAD WITH STRAIGI	HT MOVEMENT. FIX	KING BY THE HEAD			
Actuator type	N	Metal end plunger - M1	.2	s	teel roller plunger - M	12	
	40	2 CONTACTS	4 CONTACTS	ĝ.	2 CONTACTS	4 CONTACTS	
1 m cable length		XCWD21F0L1	XCWD410L1	直	XCWD21F2L1	XCWD41F2L1	
2 m cable length	<i>*</i>	XCWD21F0L2	XCWD410L2	S	XCWD21F2L2	XCWD41F2L2	
5 m cable length		XCWD21F0L5	XCWD410L5		XCWD21F2L5	XCWD41F2L5	
10 m cable length	€	XCWD21F0L10	XCWD410L10	€	XCWD21F2L10	XCWD41F2L10	
HEAD WITH ANGULAR MOVEMENT. FIXING BY THE BODY							
Actuator type	Th	nermoplastic roller lev	ver er		Steel roller lever		
	0	2 CONTACTS	4 CONTACTS		2 CONTACTS	4 CONTACTS	
1 m cable length		XCWD2115L1	XCWD4115L1		XCWD2116L1	XCWD4116L1	
2 m cable length		XCWD2115L2	XCWD4115L2		XCWD2116L2	XCWD4116L2	
5 m cable length		XCWD2115L5	XCWD4115L5		XCWD2116L5	XCWD4116L5	
10 m cable length	● €	XCWD2115L10	XCWD4115L10	●	XCWD2116L10	XCWD4116L10	
	ا	HEAD WITH ANGULA	AR MOVEMENT. FIX	(ING BY THE BODY			
Actuator type	Lever variab	le length with thermo	plastic roller	Lever v	ariable length with ste	eel roller	
		2 CONTACTS	4 CONTACTS		2 CONTACTS	4 CONTACTS	
1 m cable length		XCWD2145L1	XCWD4145L1		XCWD2146L1	XCWD4146L1	
2 m cable length		XCWD2145L2	XCWD4145L2		XCWD2146L2	XCWD4146L2	



XCWD4145L5

XCWD4145L10

XCWD2145L5

XCWD2145L10

XCWD2146L5

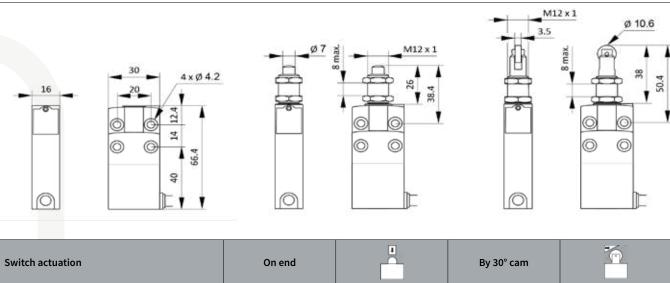
XCWD2146L10

XCWD4146L5

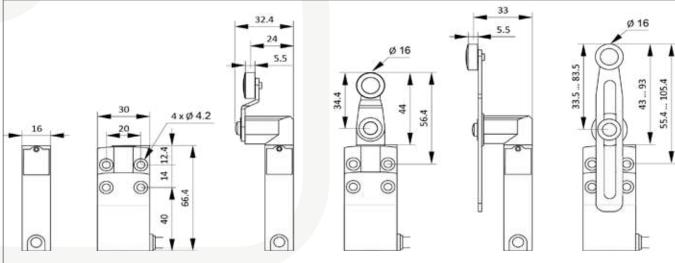
XCWD4146L10

5 m cable length

10 m cable length



Switch actuation	On end		By 30° cam		
Maximum actuation speed:	0,5 m/s		0,1 m/s		
Mechanical durability:	10 million operating cycles				
Minimum force or torque for tripping:	8,5 N		7 N		
Minimum force or torque for positive opening:	42,5 N		35 N		
Cabling:	PvR Cable 5 x 0,75 mm² for 2-pole contact versions PvR Cable 9 x 0,34 mm² for 4-pole contact versions				



Switch actuation	By 30° cam	7	By 30° cam	7	
Maximum actuation speed:	0,1 m/s 1,5 m/s		m/s		
Mechanical durability:	10 million operating cycles				
Minimum force or torque for tripping:	7	N	0,1 N.m		
Minimum force or torque for positive opening:	35 N 0,5 N.m		N.m		
Cabling:	PvR Cable 5 x 0,75 mm² for 2-pole contact versions PvR Cable 9 x 0,34 mm² for 4-pole contact versions				

CONTACT BLOCKS					
dkJvb	4 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				
Switches with 2-pole contacts NC + NO snap action	Switches with 4-pole contacts NC + NC + NO + NO snap action				

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 GbII 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 7	75 mm		
		ST ST					
Actuator type	Square rod 6 mm spring return position	Thermoplastic roller lever Ø 30 mm	Thermoplastic roller lever Ø 50 mm	Metallic square rod in cross, stay put	Conveyor belt s Lever galvanized	hift monitoring 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	entry 1 x M20 (8 - 13 mm)						
(2) Metallic rods in cros (3) Metallic rods in "T"	ss						

10 million operations

CONTROL & CONNECTION EQUIPMENT (S) +

20 million operations

Snap action 2 x blind plug | 1 x M20 (8 - 13 mm)

LIMIT SWITCHES XCK - XCR SERIES

Zones 1, 2, 21, 22

Durability

Contact type

Cable entry

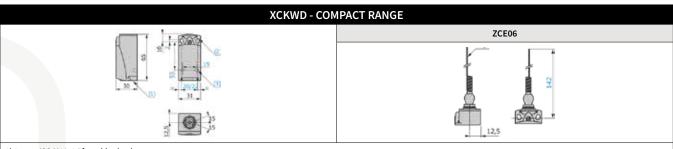
		COMPACT RA	ANGE - F	IXING DIST	ANCE 20 mm					
Actuator type	Metal end plunger	Booted metal end plunger		el roller lunger	Plastic roller, horizontal actuation	Plastic roller, vertical actuation	Plastic roller, vertical or horizontal actuation			
NC + NC	XCKWD2110P16	XCKWD2111P16	хски	/D2102P16	XCKWD2121P16	XCKWD2127P16	XCKWD2128P16			
NO + NC	XCKWD2910P16	XCKWD2910P16 XCKWD2911P16		/D2902P16	XCKWD2921P16	XCKWD2927P16	XCKWD2928P16			
Actuation speed		0,5 m/s				1 m/s				
Durability	15 million	operations		15 million operations						
Contact type	Snap action									
Cable entry	1 x M16 (5 - 8 mm)									

	COMPACT RANGE - FIXING DISTANCE 20 mm											
	01 10		O AND TO									
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)										

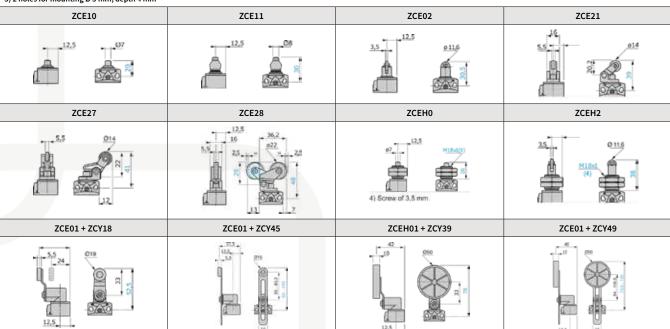
COMPACT RANGE - FIXING DISTANCE 30 x 60 mm Variable length Round lever Ø 6 Steel roller Thermoplastic Metal end plunger Steel roller lever thermoplastic mm polyamide **Actuator type** roller lever plunger roller lever L = 200 mm NO + NC XCKWJ2161H29 XCKWJ2167H29 XCKWJ210513H29 XCKWJ210511H29 XCKWJ210541H29 XCKWJ210559H29 **Actuation speed** 1,5 m/s 25 million operations 30 million operations Durability 30 million operations 20 million operations Contact type Snap action Cable entry 1 x M20 (8 - 13 mm)

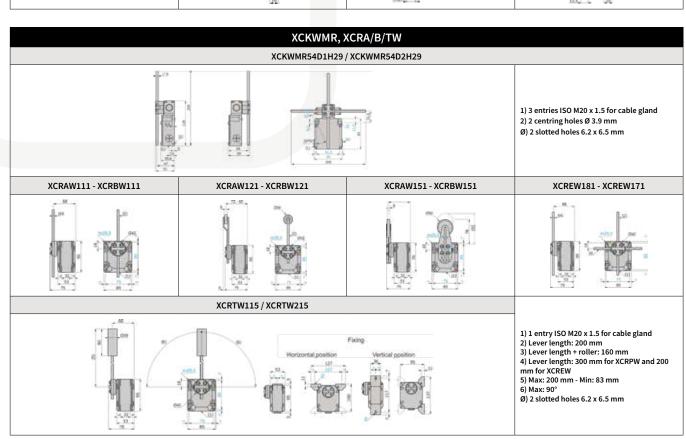
	XCKWJ - CLA	ASSIC RANGE	
XCKWJ2161H29	XCKWJ2167H29	XCKWJ210513H29 - XCKWJ210511H29	XCKWJ210541H29
2:05.3 2 2:0	5 012 5 012 5 012 5 012 5 012 5 012 5 012 5 012 6 012	57 - 41 - 622 - 25 - 205.3 - 3 - 25 - 205.3 -	5.5 at 018
XCKWJ210559H29			
26,2 (2) (2) (3) (3) (4) (5) (6) (7) (7) (8) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9		1) 1 entry ISO M20 x 1.5 for cable gland 2) Lever Ø 6 mm, length 120 mm Ø) 2 slotted holes 5.3 x 7.3 mm	

	XCKWM - CLA	ASSIC RANGE			
XCKWM2110H29	XCKWM2102H29	XCCKWM2121H29	XCKWM2115H29		
010 010 010 010 010	012 012 0 sm 0	14 00 00 00 00 00 00 00 00 00 00 00 00 00	8		
XCKWM	2106H29				
(1) (1) (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	Q1 3.	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			



- 1) 1 entry ISO M16x1,5for cable gland
- 2) 2 slotted holes Ø 4.3 x 6.3 mm and fixing distance 22 mm or 2 holes Ø 4.3 mm and fixing distance 20 mm
- 3) 2 holes for mounting Ø 3 mm, depth 4 mm





ATEX LIMIT SWITCHES

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



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.

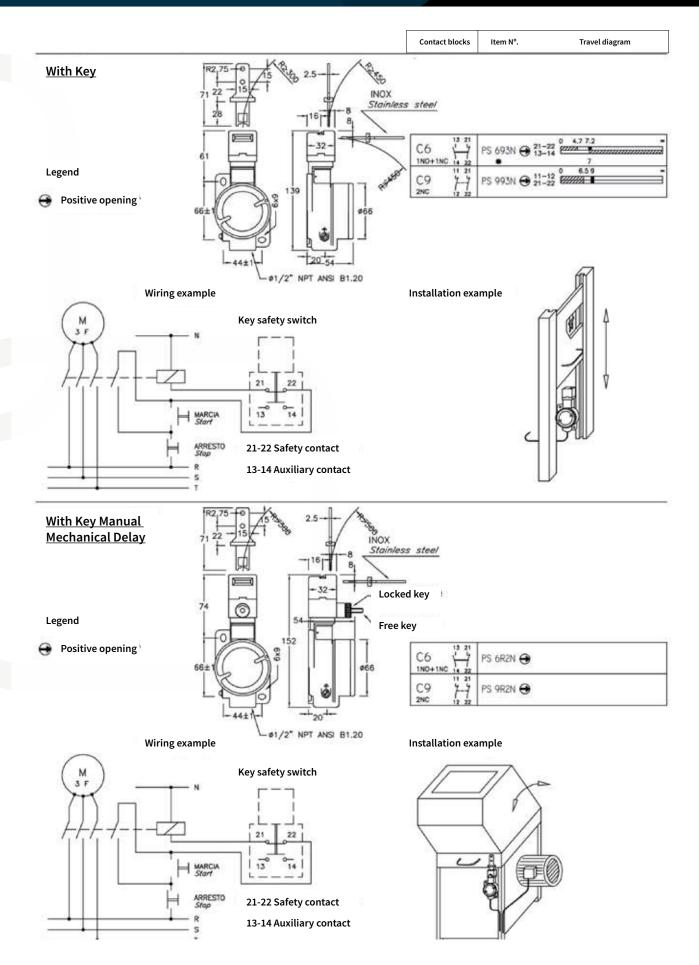
Applicable to any type of protection (hinged, removable or sliding). It is possible to operate the switch with a key allowing the restart only by inserting the same key.



Electrical power or timers not required.

ITEM REFERENCES								
Designation:	Contact unit		Item No.:					
PS 693N - Key lock safety switch with positive opening	C6 (1NO+1NC)	13 21	PS 693N					
PS 993N - Key lock safety switch with positive opening	C9 (2NC)	11 21 4 4 7 7 12 22	PS 993N					
PS 6R2N - Key lock safety switch with manual mechanical delay and positive opening	C6 (1NO+1NC)	13 21	PS 6R2N					
PS 9R2N - Key lock safety switch with manual mechanical delay and positive opening	C9 (2NC)	11 21 7-7 12 22	PS 9R2N					

	TECHNICAL SPECIFICATIONS
Marking:	II 2G Ex d IIC T6/T5 GbII 2D Ex tb IIIC T85°C/T100°C Db
Certificate:	EU-Type Examination Certificate
Operating temperature:	-20°C to +40°C
Housing:	Aluminium light alloy. Externalepoxy RAL7000
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/mm²
Cable entries:	1 x 1/2" NPT. In option M20X1.5. (Cable gland not included)



ATEX LIMIT SWITCHES

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



Ex-proof cable operated safety switches ideal to control any moving mechanical parts especially conveyors.

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.

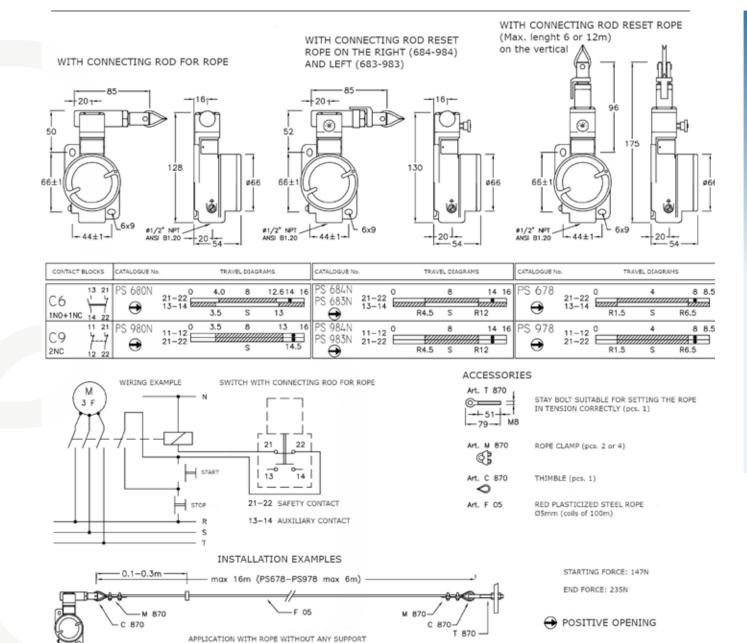


							TI	ECHNI	CAL SPE	CIFICATIO	NS				
Marking:						 II 2G Ex d IIC T6/T5 Gb II 2D Ex tb IIIC T85°C/T100°C Db 									
Certificate	: :						EU-T	EU-Type Examination Certificate							
Housing:							Alum	Aluminium light alloy. Externalepoxy RAL7000							
Operating	temper	rature:					-20°0	C to +40	0°C						
Ingress pr	otectior	ո։					IP66	/67							
Frequency	of ope	rations:					20/m	nin up t	to +40°C						
Number o	f cycles:	:					8 - 10	0 millio	ns						
Nominal o	urrent:						l: 10	Α							
Insulating	voltage	: :					Ui: 5	Ui: 500 Vac / 600 Vdc							
Impulse w	ithstan	d voltag	;				Uimp	Uimp: 6 kV							
Short circ	uit curre	ent:					1000 AV								
Short circ	uit prote	ection:					Fuse 10A 500 V								
Minimum	conduct	tor secti	on:				1.5 n	1.5 mm ²							
Max. curre	ent dens	sity:					5 A/r	5 A/mm²							
Cable ent	ries:						1 x 1/2" NPT. In option M20X1.5. (Cable gland not included)								
		CONTA	CT UN	IT							ELECTRIC	AL DIAG	RAM		
								Type	Contact	Diagram	Operating	Type	Contact	Diagram	Operating
		AC15	,		DC1			C2	108:108	13 27 43 29	Shap petion	CIO	2940	13 23 11-1 1+ 24	Slow action
	(50	0-60Hz	2)		(d.c.)		C5	1N0+1NC	12 II 12 II	Singe pretion	ÇII	2MC	77	Snep action
U _e (V)	250	400	500	24	125	250		C6	1N9+1NG	13.15	Slow action	CI4	ZNC	7-7	Site action
<u> </u>			1		.			C7	1N0+1NC	(5 t) (Checkspring alaw octob	CI5	290	13 23 1-4 14 24	Slow oction
I _e (A)	6	4	1	6	1.1	0.4		C9	280	7-7	Slow action	C20	1HD+2HC	7-7-1	Siew aution

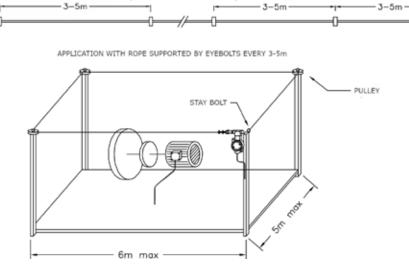
CABLE OPERATED SAFETY SWITCHES WITH POSITIVE OPENING

Zones 1, 2, 21, 22

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



- max 35m (PS678-PS978 max 12m) -



3-5m

0.1-0.3m

TE 30-6

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.

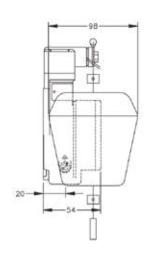
Buoyant in Moplen, cable in Nylon (2m) and counterweight in Zinc Plated Steel. Tags and screws in Stainless Steel.

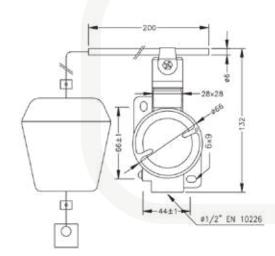
The switch is normally supplied with actuator acting in both directions (actuator with float left or right).



ITEM REFERENCES					
Designation:	Contact type:	Contact:	Current(A):	Voltage (V):	Item No.:
PS 10AG	Single pole	1NA+1NC	I max = 10A	V max = 220V AC/DC	4D0401
PS 20AG Double pole 2NA+2NC I max = 10A V max = 220V AC/DC 4D0402					

	TECHNICAL SPECIFICATIONS		
Marking:	II 2G Ex d II C T6/T5 Gb II 2D Ex tb III C T85°C/T100°C Db		
Certificate:	EU-Type Examination Certificate		
Housing:	Aluminium light alloy		
Colour:	External Epoxy RAL7000		
Operating temperature:	Operating temperature: -20°C to +40°C		
Ingress protection:	gress protection: IP66/67		
Cable entries:	1/2" NPT. M20X1.5 on request. (Cable gland not included)		





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.





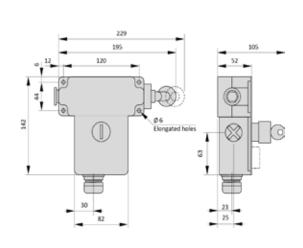
EU-Type Examination Certificate



	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 left	1 x NC + NC	4D0602
Reset by booted push button	To right	1 x NC + NO	4D0603
Reset by booted push button	To right	1 x NC + NC	4D0604
Reset by key release push button - Key 421	To left	1 x NC + NO	4D0605
Reset by key release push button - Key 421	To left	1 x NC + NC	4D0606
Reset by key release push button - Key 421	To right	1 x NC + NO	4D0607
Reset by key release push button - Key 421	To right	1 x NC + NC	4D0608

	TECHNICAL SPECIFICATIONS			
Marking:	Ex d e 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:	perature: -20°C to +60°C			
Ingress protection:	IP65			
Cable entries:	1xM20 cable gland			

	ACCESSORIES			
Designation:		Item No.:		
55 53 M8	Cable pulley support	4D0609		
5 "	Pulley for Ø5 mm cable max.	4D0610		
\mathcal{Q}	Cable end protector for cable Ø3,2 mm	4D0611		
D	Cable end protector for cable Ø5 mm	4D0612		
8	Swivelling cable support	4D0613		
W	End spring	4D0614		





ATEX GROUNDING CLAMPS

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



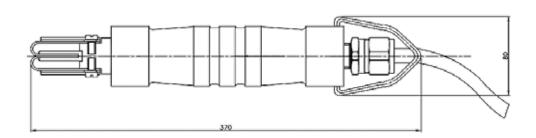
Grounding clamp indispensable whenever it is required the temporary grounding of tank trucks or tankers during transfer either of liquids or hazardous substances.

The fastening is secured by two brass springs of great strength.



	ITEM REFERENCES				
Designation:	Insulation voltage:	Insulation voltage: Gripping capacity: Current (A): Cable section: Item No.:			
PTA 10	3000 V	0,5mm ~ 3mm	I max = 10A	6 - 10 - 16 mm ²	6D0401

	TECHNICAL SPECIFICATIONS		
Marking:	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)		



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.





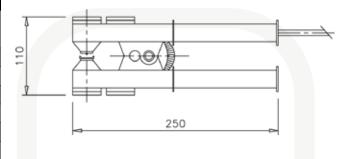
The electrical continuity is ensured by the carbonitrided steel contact tips which make a firm connection to any foothold having a thickness between 3 and 20 mm.

Equipped with tearingproof junction between the cable of the user and the one of the clamp.

ITEM REFERENCES						
Designation:	Insulation voltage: Gripping capacity: Current (A): Cable section: Cable lenght: Item No.:					
ISEO I	3000 V	3mm ~ 20mm	I 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 II 2D Ex tb IIIC T85°C Db		
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

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.



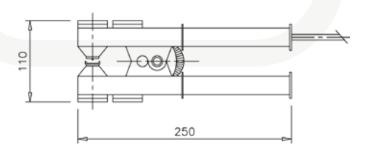


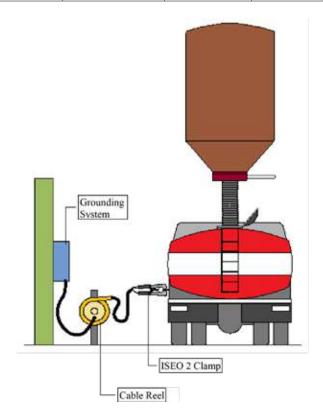
The electrical continuity is ensured by the carbonitrided steel contact tips which make a firm connection to any foothold having a thickness between 3 and 20 mm.

Equipped with tearingproof junction between the cable of the user and the one of the clamp.

ITEM REFERENCES						
Designation:	Insulation voltage: Gripping capacity: Current (A): Cable section: Cable lenght: Item No.:					
ISEO II	3000 V	3mm ~ 20mm	I max = 10A	3 x 3 mm²	11 m	6D0502

TECHNICAL SPECIFICATIONS				
Marking:	II 2G Ex d IIC T6			
Certificate: EU-Type Examination Certificat				
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, 20, 21, 22

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



ATEX GROUNDING CLAMPS

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





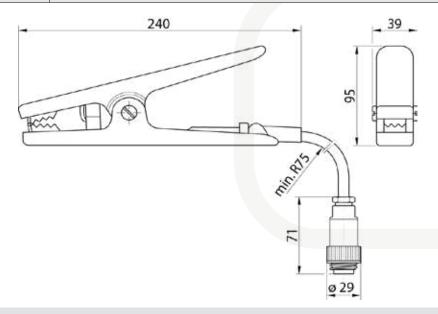
Passive ATEX grounding clamps for the temporary grounding of tank trucks or tankers during transfer either of liquids or hazardous substances. Electrostatic charges are discharged effectively



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:	€ II 1G IIB T6 Ga, II 2G IIC T6 Gb, II 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

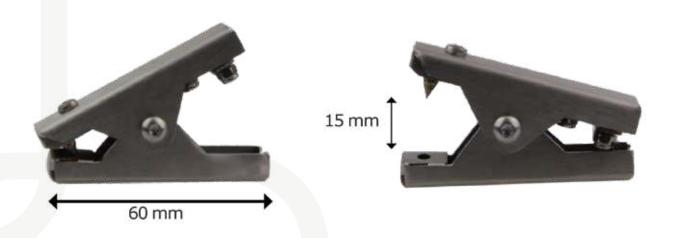
ATEX GROUNDING CLAMPS

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.

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. 4mm²)	
Stainless steel teeth:	Hardened, 2 pieces (mounted on one leg side)	

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:	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. 4mm²)	
Stainless steel teeth:	Hardened, 2 pieces (mounted on one leg side)	

PROFI-LINE 123-1 GROUNDING CLAMPS

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

ATEX GROUNDING CLAMPS

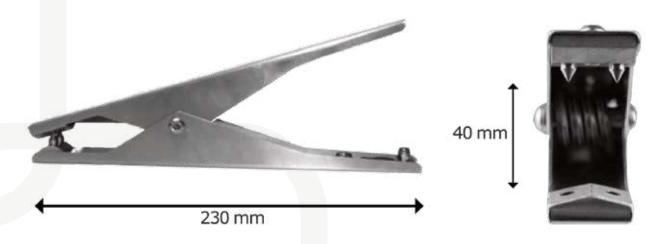
ZONES 0, 1, 2 (gas) & 20, 21, 22 (dust)

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. 10mm²)	
Stainless steel teeth:	Hardened, 2 pieces (mounted on one leg side)	

ATEX GROUNDING CLAMPS

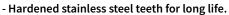
ZONES 0, 1, 2 (gas) & 20, 21, 22 (dust)







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.



- 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	
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

rutt catalogue avaitable off our website

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. 16mm²)	
Stainless steel teeth:	Hardened, 2 pieces (mounted opposite)	

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.

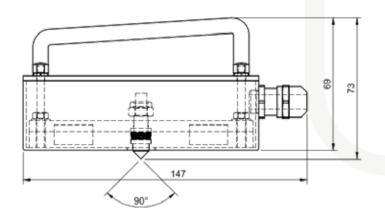


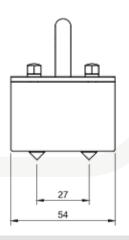


EU-Type Examination Certificate

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 IIIB 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:	Painted and unpainted containers with a volume over 50 litres		





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

The spiral cables are free of silicone. The cable ends can be assembled with eyelets at no extra charge.



		ITEM REFERENCES		
Designation:	Cable colour:	Cross section:	Block length:	Item No.:
1m straight cable	Green/Yellow	4 mm²	-	A179010
1m spiral cable	Green/Yellow	4 mm²	100 mm	A416106
3m spiral cable	Green/Yellow	4 mm²	600 mm	A416123
5m spiral cable	Green/Yellow	4 mm²	1000 mm	A416107
10m spiral cable	Green/Yellow	4 mm²	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 mm²/ 2,5 mm²	
Wire type:	Copper	
Ambient temperature:	-40°C+80°C	

REWINDING CABLE REELS FOR PASSIVE GROUNDING TYPE 601 KR/EW

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 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.

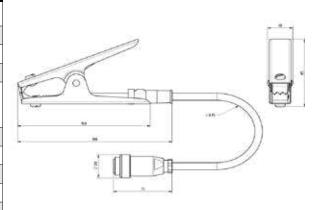




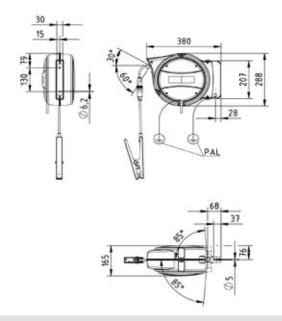


		ITEM REFERENCES		
Designation:	Cable lenght:	Connection cable lenght:	Weight:	Item No.:
601KR/EW - 70PK	12 m	2,5 m	Approx. 6 kg	6D0701

70 PK CLAMP TECHNICAL SPECIFICATIONS			
Marking:	€ II 1G IIB T6 Ga, II 2G IIC T6 Gb, II	1D T80	O°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 lea Temperature range –40+90°C Connected 4-pin plug IP67	nd, 3 x	1.5 mm²
Dimensions:	See figure		
Weight:	Approx. 0.29 kg		
Clamping width:	35 mm		
Clamping force:	100 N ±20%		
Earth leakage resistance:	<10hm		



601KR/EW CABLE	REWINDER 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
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.

Declaration of conformity

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, 2mm²	7 m	6D0720
Grounding reel type 2 with steel cable, blue coated, 2mm²	15 m	6D0721
Grounding reel type 3 with stainless steel cable, blank, 4mm² (Version for clean rooms, bare steel cable, no coating)	7 m	6D0722
Grounding reel type 4 with stainless steel cable, blank, 4mm² (Version for clean rooms, bare steel cable, no coating)	15 m	6D0723

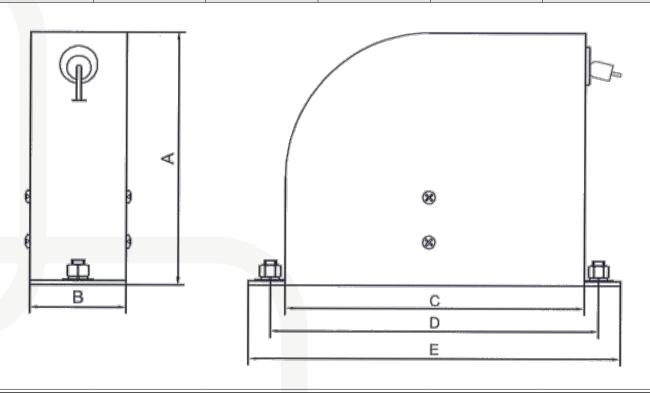
TECHNICAL SPECIFICATIONS		
Marking:	II 2G Ex h IIC T6 Gb	
Certificate:	Declaration of Conformity	
Ambient temperature:	-40°C to +80°C	
Material of the case:	Stainless steel V2A	
Cable type:	Steel cable, blue coated or Stainless steel cable, blank	
Cross section:	2,0 mm ² / 4,0 mm ²	

ACCESSORIES		
Designation:	Item No.:	
Clamp storage for wall mounting	6D0730	

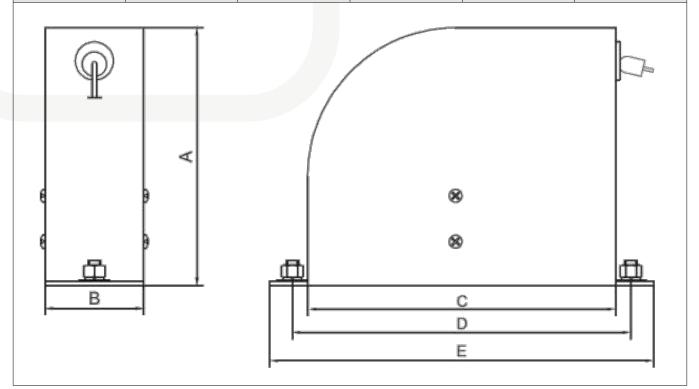
The clamp storage provides the optimal hold for all grounding clamps and ensures that they are stored properly so that they do not lay on the floor. It is mounted using M6 screws.



REWINDING CABLE REELS FOR PASSIVE GROUNDING (1 CORE)



DIMENSIONS TYPE 2, TYPE 4					
Type:	pe: A: B: C: D: E:				
Type 2	231 mm	69,5 mm	226 mm	256 mm	276 mm
Type 4	231 mm	69,5 mm	226 mm	256 mm	276 mm



ATEX EARTHING SYSTEMS

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



ECS-RF 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.

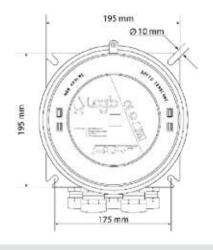
The device can be equipped with two Ex i outputs for remote LEDs installed directly on the clamp (consensus green LED and non consensus red LED).

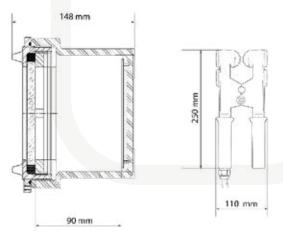
- Compact and rugged Ex-d enclosure suitable for ATEX Zone 1/21 installation
- Equipped with high efficiency redundant green and red LEDs for connection monitoring



		ITEM REFERENCES		
Designation:	SIL:	Spiral cable lenght:	Weight:	Item No.:
ECS-RF-SP5-IS1L-HK01	SIL 2	5m	Approx. 6 kg	6D0902

	TECHNICAL SPE	CIFICATIONS		
Marking:	II 2(1)G Ex d[ia Ga] IIC T6 Gb II 2(1)D Ex tb[ia Da] IIIC T85°C Db	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	C)=13.5μF, Lo(IIC)=149μH, Lo/Ro=860 μH/Ω		
Output LED Ex i:	Uo=7.2V, Io=23mA, Po=42mW, Co(IIC)=	Uo=7.2V, Io=23mA, Po=42mW, Co(IIC)=13.5μF, Lo(IIC)=34μH, Lo/Ro=860 μH/Ω		
Power supply:	230 VAC ± 5%	230 VAC ± 5%		
Standard cable:	6-wire spiral cable, according to IEC 60	6-wire spiral cable, according to IEC 60332-1-2		
R threshold:	10 Ω	10 Ω		
Dimensions:	195 x 195 x 148 mm	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)		





ECS-RF-CR20 MONITORING SYSTEM

Zones 1, 2, 21, 22

ATEX EARTHING SYSTEMS

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

ECS-RF 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).





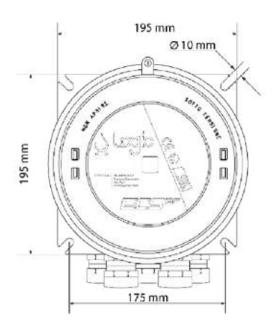
- Compact and rugged Ex-d enclosure suitable for ATEX Zone 1/21 installation
- Equipped with high efficiency redundant green and red LEDs for connection monitoring
- This version includes the CR-20 reel with 20m cable

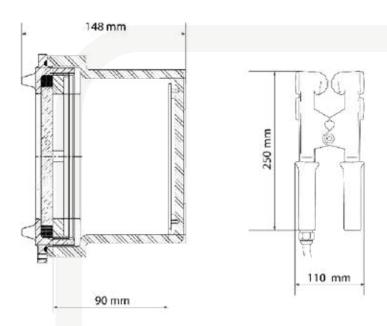


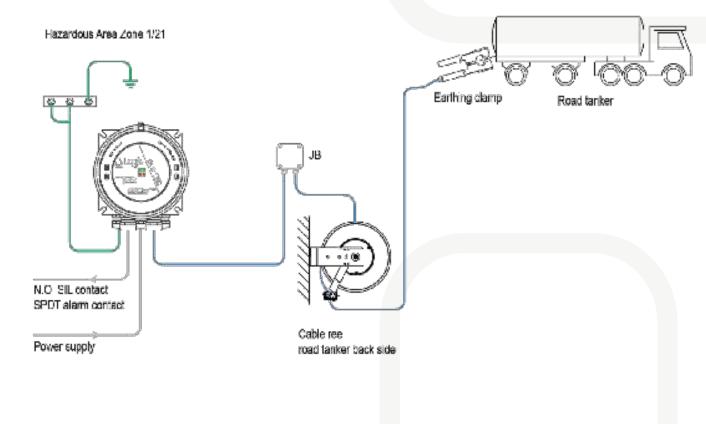
ITEM REFERENCES			
Designation: SIL: Reel cable lenght: Item No.:			
ECS-RF-CR20-IS1S-HK	SIL 2	20m	6D0907

	TECHNICAL SPECIFICATIONS		
	TECHNICAL SPECIFICATIONS Earthing monitoring system:	Cable reel:	
Marking:	II 2(1)G Ex d[ia] IIC T6 Gb (Ga) II 2(1)D Ex d[ia] Ex tb IIIC T85°C	I 2(1)G Ex d[ia] IIC T6 Gb (Ga) I 2(1)D Ex d[ia] Ex tb IIIC T85°C	
Certificate:	EU-Type Examination Certificate		
Operating temperature:	-20°C to +40°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%		
R threshold:	10 Ω		
Dimensions monitoring system:	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)	
Cable reel:	Stainless steel		









CONTROL & CONNECTION EQUIPMENT

ATEX EARTHING SYSTEMS

ECS-RF-FIBC MONITORING SYSTEM

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

The ECS-RF-FIBC system has been designed for earthing C-type FIBC big-bags, dissipating the static electricity generated during the transport of potentially explosive powders, continuously verifying via SIL2 electronics that the resistance to earth is always $< 10M\Omega$.

By using the CLP-FIBC double earthing clamps, equipped with a contact strip that prevents damage to the gripping points, the system is able to recognise the presence of the big-bag and cannot be bypassed when connected to metal devices.





- 2x CPL-FIBC Earth clamp included
- Stainless steel hook for hanging the 2 clamps included

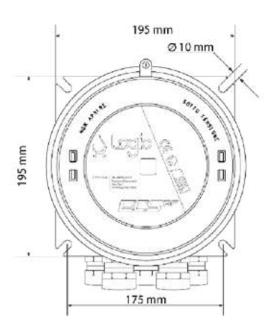


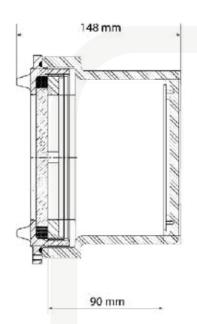


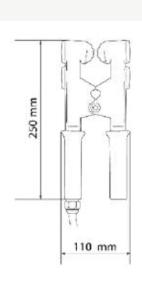
ITEM REFERENCES				
Designation: SIL: Spiral cable lenght: Item No.:				
ECS-RF-2xSP5-2xCLPFC-JB-HK	SIL 2	5m	6D0908	

	TECHNICAL SPECIF	ICATIONS		
Marking:	II 2(1)G Ex d[ia] IIC T6 Gb (Ga) II 2(1)D Ex d[ia] Ex tb IIIC T85°C			
Certificate:	EU-Type Examination Certificate			
Operating temperature:	-20°C to +40°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, U _m =253V _{rms}	230 VAC, U _m =253V _{rms}		
Standard cable:	6-wire spiral cable, according to IEC 60332-1-2			
R threshold:	10 Ω			
Dimensions monitoring system:	195 x 195 x 148 mm			
Potential free contact:	COM/NC/NO ==			
Cable entries:	5xM20x1,5 1 - Grounding clamp 2 - Grounding clamp	3 - Grounding cable 4 - Power cable 5 - Potential free contact cable (if not used, install the plug provided)		
Clamp material:	Stainless steel AISI 304.			
Clamp dimensions:	50x33x140mm			
Maximum clamp opening:	15mm			
Clamp operating temperature:	-20°C to +70°C			

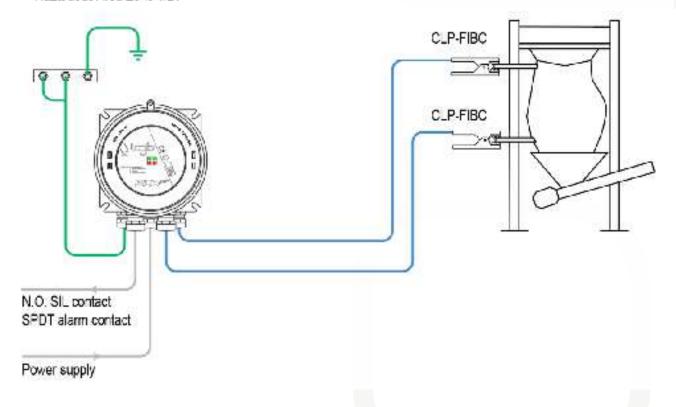








Hazardous Area Zone 1/21



CONTROL & CONNECTION EQUIPMENT

ATEX EARTHING SYSTEMS

CLP-CODE MONITORING SYSTEM

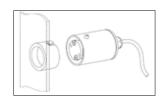
ZONES 1, 2 (gas) & 21, 22 (dust)



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 10 Ω .

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 10 Ω .

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:	(1)G [Ex ia Ga] IC (1)D [Ex ia Da] 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:	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:	Extension cable CAB-ECS6C1.0
R threshold:	10 Ω
Dimensions:	Logic Joseph Tell Tell

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 (HAZA	RDOUS AREA)
Marking:	II 2(1)G Ex d[ia Ga] IIC T6 Gb	
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(I	IC)=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 O 10 mm	146 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
_	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 mm², Ø8 mm
R threshold:	10 Ω
Dimensions:	© 87.5

EX-SYMEGA-VO EARTHING SYSTEM

Zones 1, 2, 21, 22

ATEX EARTHING SYSTEMS

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



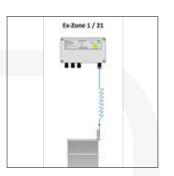
The earthing system Ex-SYMEGA-VO serves to avoid electrostatic charges in hazardous areas and ensures a secure connection of stationary and mobile, metallic or conductive and dissipative objects and a good earth.

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













EU-Type Examination Certificate

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:	(1) 2G Ex eb ia mb IIC T4 Gb (1) II (1) 2D Ex ia tb T120°C 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 1030hm High: 03 MOhm or 3x1060hm	
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)	

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

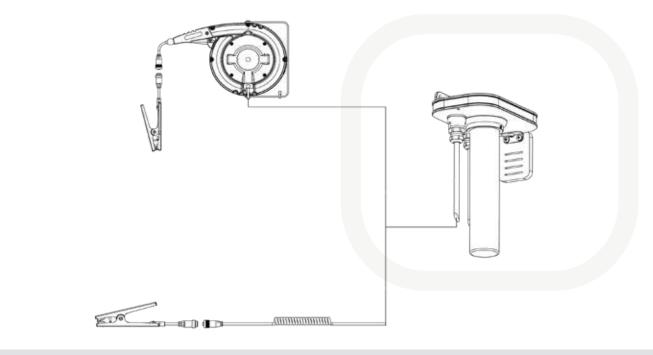




Option 2: **TERRA-L Ground Monitoring System** 5m Helix Cable KG/BSA, blue 70AG Earthing Clamp



ITEM REFEREN	CES OPTION 1	ITEM REFEREN	CES 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

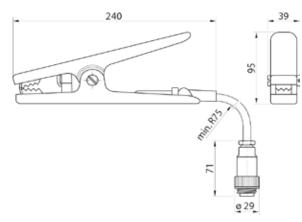


TERRALIGHT GROUND MONITORING SYSTEM

Zones 1, 2, 21, 22

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

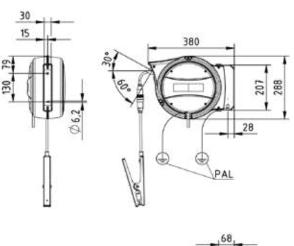
70AG CLAMP TECHNICAL SPECIFICATIONS		
Marking:	€ II 2D Ex ia IIIC T135°C Db, II 2G Ex ia IIC T6 Gb	
Certificate:	EU-Type Examination Certificate	
Clamp material:	Stainless steel	
Operating temperature:	-20°C to +70°C	
Ground cable: (color: light blue)	Oil and gasoline resistant control lead, 3 x 1.5 mm ² Temperature range -40+90°C Connected 4-pin plug IP67	
Dimensions:	See figure	
Weight:	Approx. 0.6 kg	

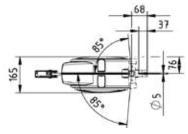


The ATEX cable rewinders of series 601KR/DW ensure that the ground cable is safely reeled back after use, protecting it from damage and dirt. These cable rewinders are made of impact-proof aluminum and are mounted with an assembly bracket.

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.







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	



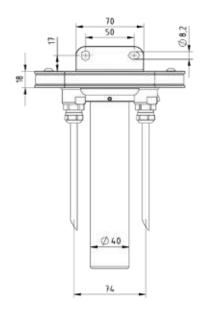
The controlled grounding principle used in the TERRALIGHT Ground Monitoring System ensures that static charges developing in potentially explosive atmospheres, e.g. during loading, discharging or refilling are safely avoided.

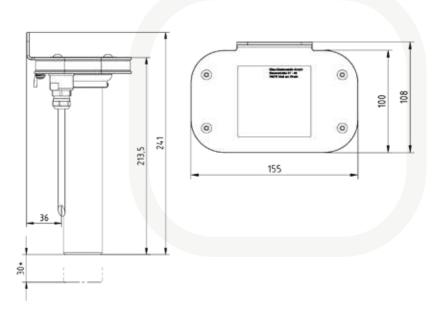
This means that the risk of ignition caused by uncontrolled static discharges is eliminated at source. Because the ground connection is monitored, there is no need for low-resistance ground connections or large conductor cross-sections.

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 II 1D Ex ia IIIC T135°C Da	
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 U ₀ : 6.0 V DC Maximum current I ₀ : 0.25 A Maximum output P ₀ : 0.36 W Maximum permissible connected load capacity / inductance: C ₀ : 1,49 μF, L ₀ : 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	





ATEX EARTHING SYSTEMS



Save ground connection for machines and devices. Terminals in nickel-plated brass and stainless steel.

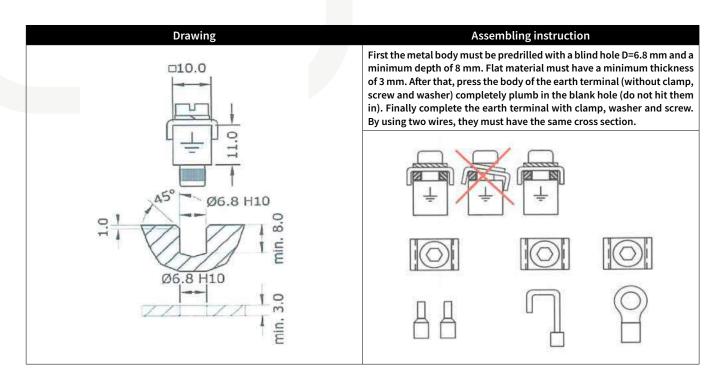
Electrical components with metal body must have per standard 60079-0 a connection point of minimum 4 mm² to connect them with potential earth. These Earth Terminal fulfill these requirements in accordance to the standard EN 60079-0 for ground and bonding conductors.

Also the requirements for terminals as per standard EN 60999-1 are kept.

By simply pressing the terminal in a prepared blind hole as per drawing below, the earth terminals supplies a longstanding ground and bonding connection for 1.5 mm² up to 6mm².

ITEM REFERENCES		
Designation:	Material:	Item No.:
MSK	Nickel plated brass	6E0101
ESK	Stainless steel	6E0102

TECHNICAL SPECIFICATIONS			
Certificate:	Declaration of conformity acc. to E	EN 60999-1 / EN 600079-0	
Base:	Nickel plated brass (MSK) or Stain	Nickel plated brass (MSK) or Stainless steel (ESK)	
Clamp:	Stainless steel		
Screw:	M5 Stainless steel	M5 Stainless steel	
Washer:	Stainless steel		
Cross connection:	Rigid / Stranded / Unprepared	With sleeve: 1,5 4 mm ²	With cable lug: 1,5 6 mm²
Tightening torque:	2,2 3,0 Nm		



ATEX EARTHING SYSTEMS



Save ground connection for machines and devices. Terminals in nickel-plated brass and stainless steel.

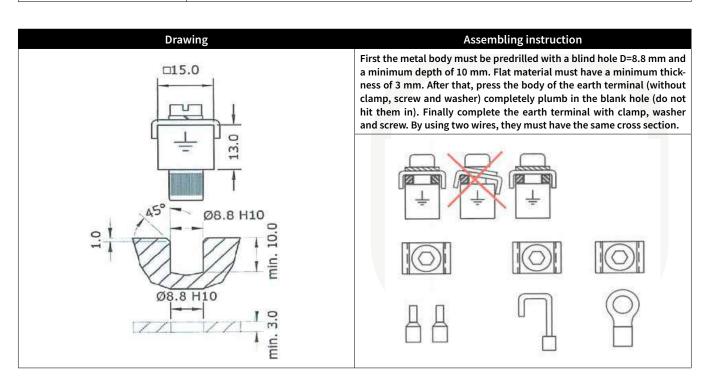
Electrical components with metal body must have per standard 60079-0 a connection point of minimum 4 mm² to connect them with potential earth. These Earth Terminal fulfill these requirements in accordance to the standard EN 60079-0 for ground and bonding conductors.

Also the requirements for terminals as per standard EN 60999-1 are kept.

By simply pressing the terminal in a prepared blind hole as per drawing below, the earth terminals supplies a longstanding ground and bonding connection for 4 mm² up to 16mm².

	ITEM REFERENCES	
Designation:	Material:	Item No.:
MSG	Nickel plated brass	6E0103
ESG	Stainless steel	6E0104

TECHNICAL SPECIFICATIONS			
Certificate:	Declaration of conformity acc. to E	Declaration of conformity acc. to EN 60999-1 / EN 600079-0	
Base:	Nickel plated brass (MSG) or Stainl	Nickel plated brass (MSG) or Stainless steel (ESG)	
Clamp:	Stainless steel	Stainless steel	
Screw:	M5 Stainless steel	M5 Stainless steel	
Washer:	Stainless steel	Stainless steel	
Cross connection:	Rigid / Stranded / Unprepared	With sleeve: 4 16 mm ²	With cable lug: 4 16 mm²
Tightening torque:	2,2 3,0 Nm		





These ground distribution blocks are used on machinery and equipment as a central grounding point.

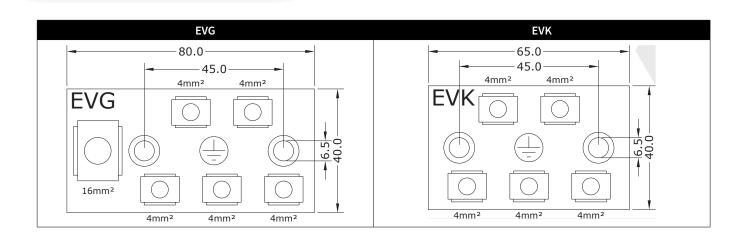
Available in two sizes:

- Up to 2 single cores with 16mm² and a maximum of 10 single cores up to 4 mm² can be connected to the EVG distribution block.
- At the EVK ground distribution block up to 10 single wires up to

These ground distribution blocks are made of corrosion-resistant nickel-plated brass and they are rated according to EN60079-0 and EN60999-1 for safe use in potentially explosive atmospheres.

ITEM REFERENCES		
Designation:	Dimensions:	Item No.:
EVG	80x40x42 mm	6E0105
EVK	65x40x32 mm	6E0106

TECHNICAL SPECIFICATIONS		
Certificate:	Declaration of conformity acc. to EN 60999-1 / EN 600079-0	
Operating temperature:	-50°C to +100°C	
Material:	Nickel plated brass	
EVG:	2x16 mm²+ 10x4 mm²	
EVK	10x4 mm ²	







Polígono Industrial de Matsaria, 34 20600 Eibar (Guipúzcoa) - Spain Phone: (+34) 943 530 095 | (+34) 943 530 482

E-mail: inpratex@inpratex.com