

# PHOTOCELLS

Zones 1, 2, 21, 22

Full catalogue available on our website: [www.inpratex.com](http://www.inpratex.com)

## ATEX INSTRUMENTATION

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



The robust photoelectric sensor XUWB is designed to meet the highest requirements for use in Oil&Gas, Chemical, Pharmaceutical and Food industries.

With a footprint diameter of only 30 mm, these ATEX Ex d prewired photocells can be used in all types of applications and processes.

With a nominal range from 0,6 m to 15 m, it will be able to meet all needs.

**NOTE: Minimum detection distance 20cm.**



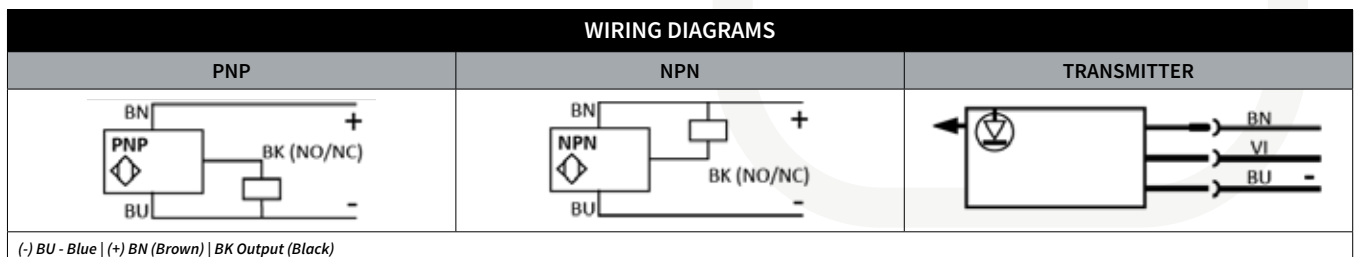
EU-Type Examination Certificate

### ITEM REFERENCES

Output type in DC circuit / Reflector	Reflex polarized: (L=72mm)	Reflex: (L=72mm)	Barrier: (L=72mm)
PNP OUTPUT NO	XUWB9APANL2	XUWB1APANL2	XUWB2APANL2R + XUWB2AKSNL2T
Reflector	Scope 1,4 m Reflector XUZC39 (use in group IIC)	Scope 3 m Reflector XUZC39 (use in group IIC)	15 m
PNP OUTPUT NC	XUWB9APBNL2	XUWB1APBNL2	XUWB2APBNL2R + XUWB2AKSNL2T
Reflector	Scope 1,4 m Reflector XUZC39 (use in group IIC)	Scope 3 m Reflector XUZC39 (use in group IIC)	15 m
NPN OUTPUT NO	XUWB9ANANL2	XUWB1ANANL2	XUWB2ANANL2R + XUWB2AKSNL2T
Reflector	Scope 1,4 m Reflector XUZC39 (use in group IIC)	Scope 3 m Reflector XUZC39 (use in group IIC)	15 m
NPN OUTPUT NC	XUWB9ANBNL2	XUWB1ANBNL2	XUWB2ANBNL2R + XUWB2AKSNL2T
Reflector	Scope 1,4 m Reflector XUZC39 (use in group IIC)	Scope 3 m Reflector XUZC39 (use in group IIC)	15 m

*Reflex: The bounce is on the reflector. The polarized version is less sensitive to light.  
Barrier: Increases detection distance (no bounce).*

### WIRING DIAGRAMS




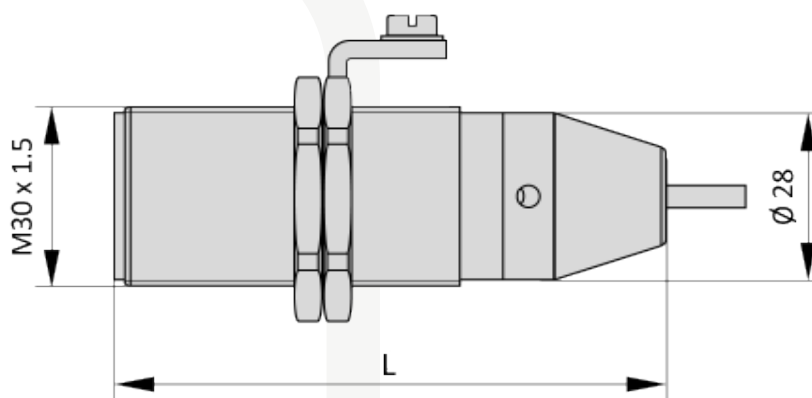
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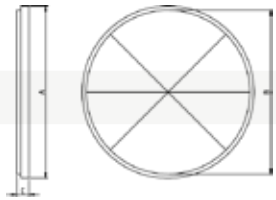
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## TECHNICAL SPECIFICATIONS

Marking:	 II 2GD Ex d IIC T6 Gb Ex tb IIIC T85°C Db
Certificate:	EU-Type Examination Certificate
Housing:	Nickel plated brass. Stainless steel AISI 316L (in option)
Operating temperature:	-20°C to +55°C
Ingress protection:	IP67
Type of transmission:	Infrared
Supply voltage:	12...24 VDC with protection against reverse polarity
Voltage limits (including ripple):	10...36 VDC
Current consumption:	35 mA
Switching capacity:	≤ 100 mA with overload and short-circuit protection
Voltage drop, close rate:	1,5 V
Maximum switching frequency:	500 Hz
Output state:	Yellow LED
Electrical connection:	By cable 2m for XUWB..L2
Fixing diameter:	M30x1,5



## STANDARD CIRCULAR REFLECTORS

	CODE	A (mm)	B (mm)	C (mm)
	XUZC16	21	17	5,5
XUZC39	46	37	6,5	

## RIGID SQUARE REFLECTORS

<p>XUZC24 (for short distance of detection)</p>	<p>Technical drawing of a rigid square reflector. Dimensions are indicated: 9 (width of top flange), 45 (height of main body), 21 (width of top flange), 33 (height of top flange), 24 (width of main body), 29 (width of main body), and 7,5 (width of bottom flange).</p>
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