

XS612B1PBL10EX

Inductive proximity sensors XS for hazardous area dust, M12, Sn4mm, 12...48 VDC, NC, cable 10 m



Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	Application
Sensor type	Inductive proximity sensor
Device application	ATEX dust
Sensor name	XS6
Sensor design	Cylindrical M12
Size	12 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Metal
Enclosure material	Nickel plated brass
[Sn] nominal sensing distance	4 mm
Type of output signal	Discrete
Wiring technique	3-wire
Discrete output function	1 NC
Output circuit type	DC
Discrete output type	PNP
Electrical connection	Cable
Cable length	10 m
[Us] rated supply voltage	12...48 V DC with reverse polarity protection
Switching capacity in mA	<= 200 mA with overload and short-circuit protection
IP degree of protection	IP68 conforming to IEC 60529 IP69K

Complementary

Thread type	M12 x 1
Detection face	Frontal
Front material	PPS
Sensing range	> 2.5...4 mm
Operating zone	0...3.2 mm
Differential travel	1...15% of Sr
Cable composition	3 x 0.34 mm ²
Wire insulation material	PVC
Status LED	Output state: 1 LED (yellow)
Supply voltage limits	10...58 V DC
Switching frequency	<= 2500 Hz
Maximum voltage drop	<2 V (closed state)
Current consumption	<= 10 mA no-load
Maximum delay first up	10 ms
Maximum delay response	0.2 ms
Maximum delay recovery	0.2 ms
Marking	II2 D-Ex tb IIIC T90°C Db IP68
Threaded length	42 mm
Length	53 mm

Environment

Environmental characteristic	Hazardous location
Standards	IEC 60079-31 IEC 60079-0
Directives	2014/34/EU - ATEX directive
Product certifications	INERIS 04ATEX0022[RETURN]IEC-Ex INE 17.0006
Ambient air temperature for operation	-20...60 °C
Vibration resistance	25 gn amplitude = +/- 2 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn for 11 ms conforming to IEC 60068-2-27
Dust zone	Zone 21 - 22

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.000 cm
Package 1 Width	8.000 cm
Package 1 Length	15.000 cm
Package 1 Weight	331.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	10
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	3.500 kg

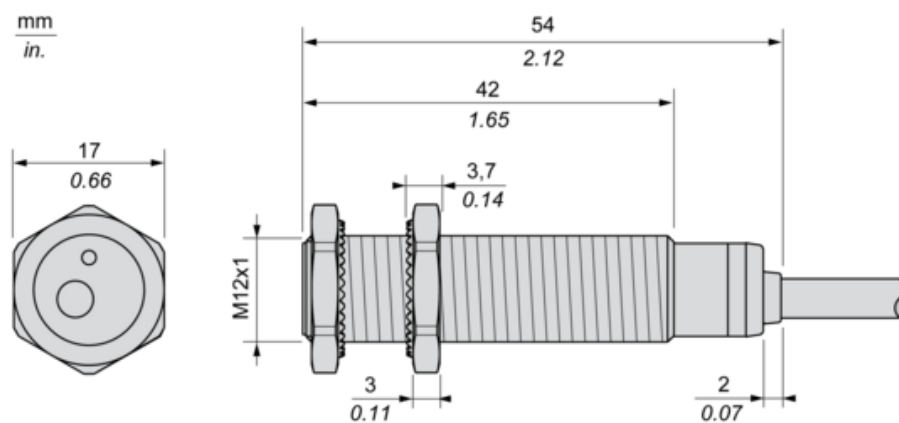
Offer Sustainability

Sustainable offer status	Green Premium product
Circularity Profile	 End of Life Information
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

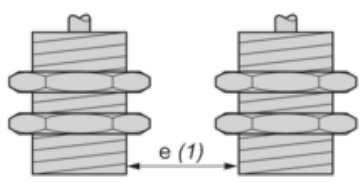
Warranty	18 months
----------	-----------

Dimensions



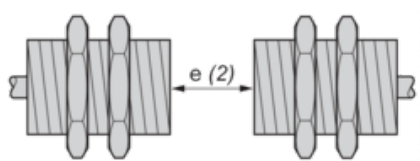
Minimum Mounting Distances

Side by side



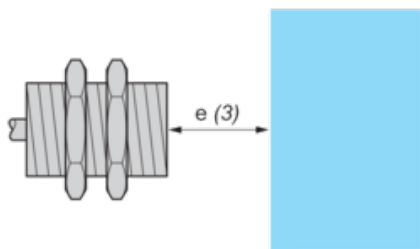
$e (1) \geq 8 \text{ mm}/0.31 \text{ in.}$

Face to face



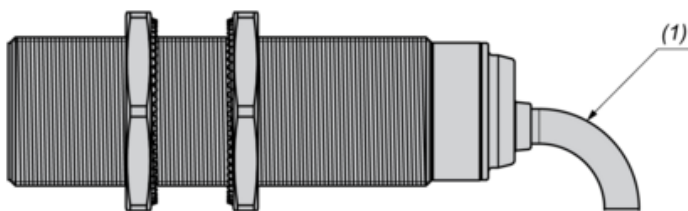
$e (2) \geq 48 \text{ mm}/1.89 \text{ in.}$

Facing a metal object



$e (3) \geq 12 \text{ mm}/0.47 \text{ in.}$

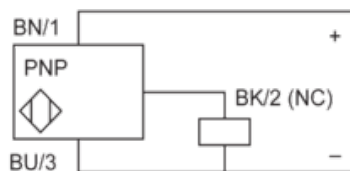
Mounting



(1) Bending cable: 4 x external cable diameter

Wiring Schemes

PNP



BU : Blue

BN : Brown

BK : Black