XS1M12AB120EX

Inductive proximity sensors XS for hazardous area dust, inductive sensor analog, M12, Sn2mm, 12...24 VDC, cable 2 m



Main

Range of product	Telemecanique Inductive proximity sensors XS	
Series name	Application	
Sensor type	Inductive proximity sensor	
Device application	ATEX dust	
Sensor name	XS1	
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	2 mm	
Type of output signal	Analogue	
Wiring technique	2-wire	
Output circuit type	DC	
Analogue output range	420 mA	
Electrical connection	Cable	
Cable length	2 m	
[Us] rated supply voltage	1224 V DC	
IP degree of protection	IP67 conforming to IEC 60529	

Complementary

Thread type	M12 x 1	
Detection face	Frontal	
Front material	PPS	
Sensing range	> 02.5 mm	
Operating zone	0.22 mm	
Repeat accuracy	<= 3% of Sr	
Linearity error	+/- 2 mA	
Cable composition	3 x 0.34 mm²	
Wire insulation material	PVC	
Supply voltage limits	1038 V DC	
Switching frequency	<= 1500 Hz	
Current consumption	4 mA no-load	
Maximum output current drift	10 %	
Marking	II2 D-Ex tb IIIC T90°C Db IP67	
Threaded length	42 mm	
Length	50 mm	

Environment

Environmental characteristic	Hazardous location
Standards	EN/IEC 60079-0 EN/IEC 60079-31
Directives	94/9/EC - ATEX directive
Product certifications	INERIS 04ATEX0022
Ambient air temperature for operation	-2060 °C
Dust zone	Zone 21 - 22

Packing Units

PCE	
1	
13.0 cm	
4.0 cm	
9.5 cm	
140.0 g	
	1 13.0 cm 4.0 cm 9.5 cm

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	

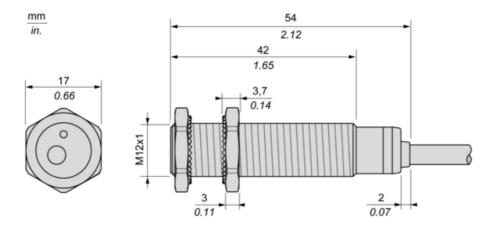
Contractual warranty

Warranty	18 months
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Product data sheet Dimensions Drawings

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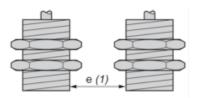
Dimensions



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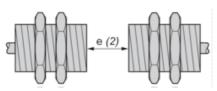
Minimum Mounting Distances

Side by side

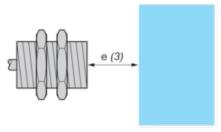


e (1) ≥ 4 mm/0.16 in.

Face to face

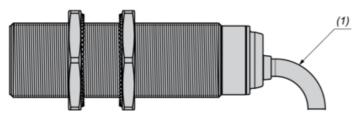


e (2) ≥ 24 mm/0.94 in. Facing a metal object



e (3) \geq 6 mm/0.24 in.

Mounting



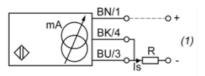
(1) Bending cable: 4 x external cable diameter

Product data sheet Connections and Schema

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Wiring Schemes

2-Wire connection

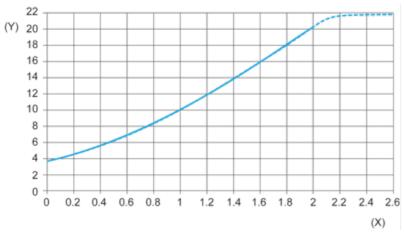


(1) Output current BN: Brown BK : Black BU : Blue

	Output current	Load impedance value
12 V	420 mA	R ≤ 8.2 Ω
24 V	420 mA	R ≤ 470 Ω
Ensure a minimum of 10 V between the + and the - (terminal 3) of the sensor.		

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Output Curves



- (Y) Is (mA)
- (X) Sensors object distance (mm)