

inductive sensor XS1 M12, L55mm, brass,
Sn2mm, 12..24VDC, M12



Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Sensor name	XS1
Sensor design	Cylindrical M12
Size	55 mm
Body type	Fixed
Enclosure material	Nickel plated brass
Type of output signal	Discrete
Wiring technique	3-wire
[Sn] nominal sensing distance	2 mm
Discrete output function	1 NO
Discrete output type	NPN
Electrical connection	Male connector M12, 4 pins
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Switching capacity in mA	<= 200 mA with overload and short-circuit protection
IP degree of protection	IP67 conforming to IEC 60529

Complementary

ISO thread	M12 x 1
Detection face	Frontal
Detector flush mounting acceptance	Flush mountable
Material	Metal
Front material	PBT
Operating zone	0...1.6 mm
Differential travel	1...15% of Sr
Output circuit type	DC
Status LED	Output state: 1 LED (yellow)
Supply voltage limits	10...36 V DC
Switching frequency	<= 2500 Hz
Maximum voltage drop	<2 V (closed)
Current consumption	<= 10 mA no-load
Maximum delay first up	15 ms
Maximum delay response	0.1 ms
Maximum delay recovery	0.15 ms
Marking	CE
Threaded length	34 mm
Length	55 mm
Net weight	0.015 kg

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Environment

Product certifications	CSA[RETURN]UL
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.000 cm
Package 1 Width	5.000 cm
Package 1 Length	8.000 cm
Package 1 Weight	29.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	48
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	1.887 kg

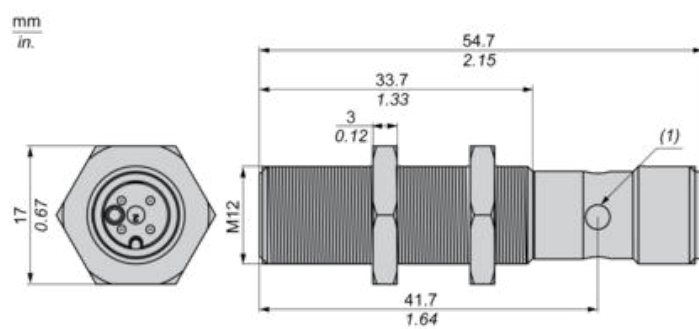
Offer Sustainability

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
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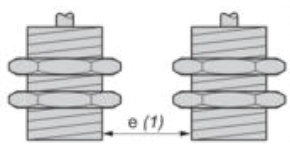
Dimensions



(1) LED

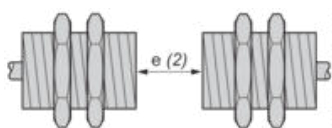
Minimum Mounting Distances

Side by side



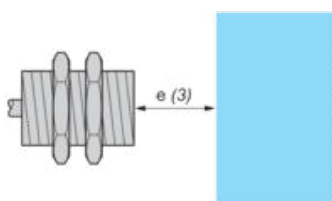
$e (1) \geq 4 \text{ mm}/0.16 \text{ in.}$

Face to face



$e (2) \geq 24 \text{ mm}/0.94 \text{ in.}$

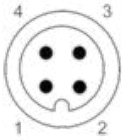
Facing a metal object



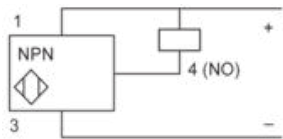
$e (3) \geq 6 \text{ mm}/0.24 \text{ in.}$

Wiring Schemes

M12 connector



NPN



1 : (+)

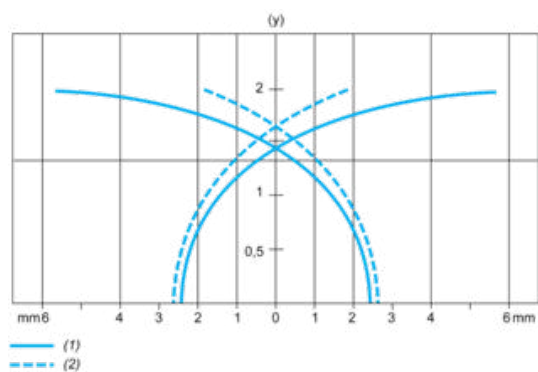
2 : Not connected

3 : (-)

4 : NO Output

Performance Curves

Standard Steel Target : 12x12x1 mm



(1) Pick-up points

(2) Drop-out points (object approaching from the side)

(y) Sensing distance in mm