Product datasheet

Specifications



inductive sensor XS4 M12 - L52mm - PPS - Sn4mm - 24..240VAC/DC - cable 2m

XS4P12MB230

Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Sensor name	XS4
Sensor design	Cylindrical M12
Size	52 mm
Body type	Fixed
Detector flush mounting acceptance	Non flush mountable
Material	Plastic
Type of output signal	Discrete
Wiring technique	2-wire
[Sn] nominal sensing distance	4 mm
Discrete output function	1 NC
Output circuit type	AC/DC
Electrical connection	Cable
Cable length	2 m
[Us] rated supply voltage	24...240 V AC/DC 50/60 Hz
Switching capacity in mA	5...200 mA AC/DC
IP degree of protection	IP68 double insulation conforming to IEC 60529

Complementary

Thread type	M12 x 1
Detection face	Frontal
Front material	PPS
Enclosure material	PPS
Operating zone	0…3.2 mm
Differential travel	1...15% of Sr
Cable composition	2 x 0.34 mm²

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Wire insulation material	PvR
Status LED	Output state: 1 LED (yellow)
Supply voltage limits	20…264 V AC/DC
Maximum residual current	0.6 mA open state
Switching frequency	<= 25 Hz AC <= 3000 Hz DC
Maximum voltage drop	<5.5 V (closed)
Maximum delay first up	40 ms
Maximum delay response	0.2 ms
Maximum delay recovery	0.2 ms
Marking	CE
Threaded length	42 mm
Height	12 mm
Length	52 mm
Net weight	0.065 kg

Environment

Product certifications	UL CSA CCC Ecolab
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 Weight	60.0 g
Package 1 Height	2.4 cm
Package 1 width	14.6 cm
Package 1 Length	15.7 cm
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Weight	1.682 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Package 3 Height	15 cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)

	EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

Contractual warranty

Warranty	18 months

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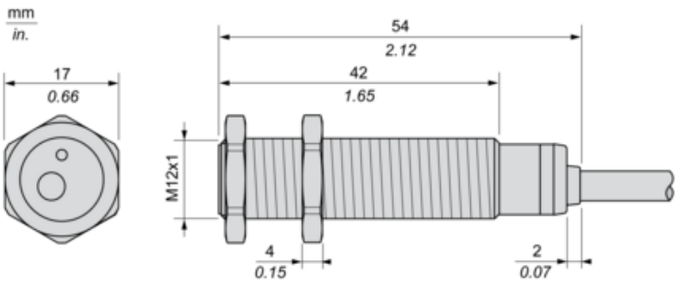
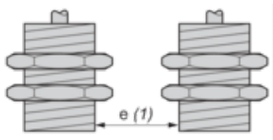
Dimensions Drawings

Dimensions



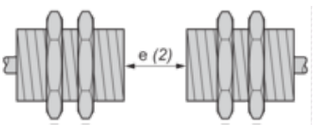
Minimum Mounting Distances

Side by side



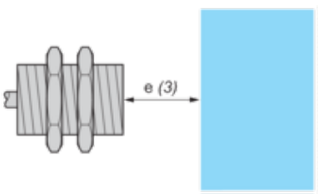
e (1) ≥ 16 mm/0.63 in.

Face to face



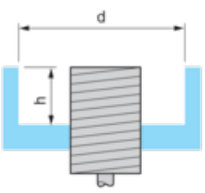
e (2) ≥ 48 mm/1.89 in.

Facing a metal object



e (3) ≥ 12 mm/0.47 in.

Mounted in a metal support



d ≥ 36 mm/1.42 in.

h ≥ 8 mm/0.31 in.

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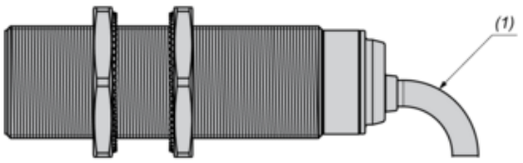
Mounting and Clearance

Mounting

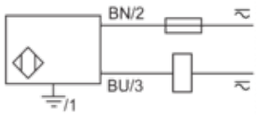


(1) Bending cable: 4 x external cable diameter

Wiring Schemes

2-Wire AC or DC

NC output

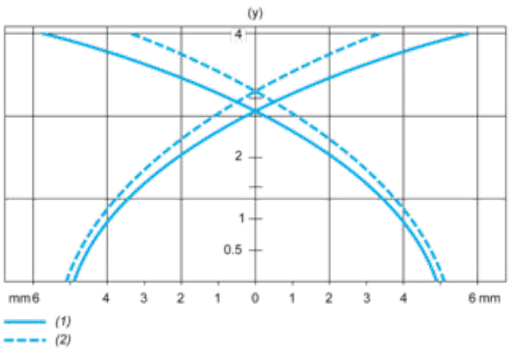


BU : Blue

BN : Brown

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