Product data sheet

Specifications



inductive sensor XS1 M8, L42mm, brass, Sn2.5mm, 12..24VDC, M8

XS108B3PBM8

Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Sensor name	XS1
Sensor design	Cylindrical M8
Size	42 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Metal
Type of output signal	Discrete
Wiring technique	3-wire
[Sn] nominal sensing distance	2.5 mm
Discrete output function	1 NC
Output circuit type	DC
Discrete output type	PNP
Electrical connection	Male connector M8, 3 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	IP65 conforming to IEC 60529 IP67 conforming to IEC 60529

Complementary

Thread type	M8 x 1
Detection face	Frontal
Front material	PPS
Enclosure material	Nickel plated brass
Operating zone	0…2 mm
Differential travel	1...15% of Sr
Status LED	Output state: 1 LED (yellow)

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

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	10 ms
Maximum delay response	0.2 ms
Maximum delay recovery	0.2 ms
Marking	CE
Threaded length	26 mm
Length	42 mm

Environment

Product certifications	UL CSA
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	34.0 g
Package 1 Height	4.1 cm
Package 1 width	6.4 cm
Package 1 Length	9.4 cm
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Weight	748.0 g
Package 2 Height	15.0 cm
Package 2 width	30.0 cm
Package 2 Length	40.0 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

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

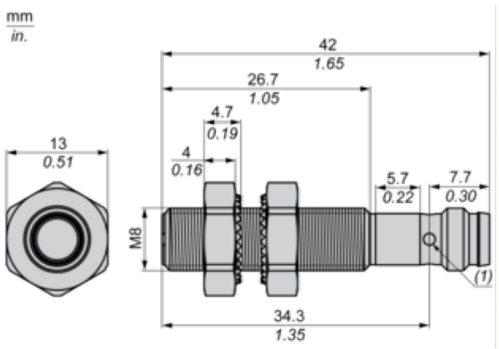
Contractual warranty

Warranty	18 months

Product data sheet XS108B3PBM8

Dimensions Drawings

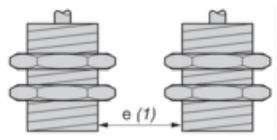
Dimensions



(1) LED

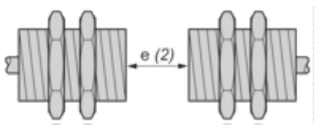
Minimum Mounting Distances in mm

Side by side



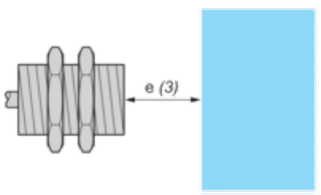
e (1) ≥ 5 mm/0.20 in.

Face to face



e (2) ≥ 30 mm/1.18 in.

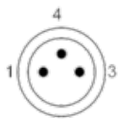
Facing a metal object



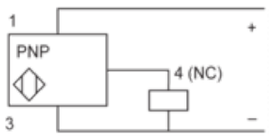
e (3) ≥ 8 mm/0.31 in.

Wiring Schemes

M8 Connector

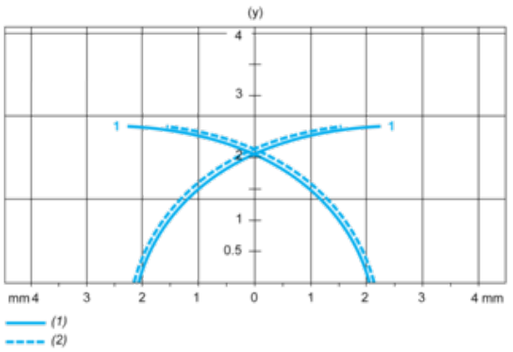


PNP



Performance Curves

Standard Steel Target (mm) : 8x8x1



(1) Pick-up points

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

(y) Sensing distance in mm