Product datasheet

Specifications



inductive sensor XS9 M8 - L66mm - full SS 303 - Sn3 mm - 12..24VDC - M12

XS908R1PAM12

Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	Application
Sensor type	Inductive proximity sensor
Device application	Harsh environment application
Sensor name	XS9
Sensor design	Cylindrical M8
Size	66 mm
Body type	Single piece body
Enclosure material	Stainless steel 303
Type of output signal	Discrete
Wiring technique	3-wire
[Sn] nominal sensing distance	3 mm
Discrete output function	1 NO
Discrete output type	PNP
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 IP69K conforming to DIN 40050

Complementary

Thread type	M8 x 1
Detection face	Frontal
Detector flush mounting acceptance	Flush mountable
Material	Stainless steel 303
Front material	Stainless steel 303
Sensing range	> 2.5...4 mm
Operating zone	0…2.4 mm
Differential travel	1...15 % of Sr

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

Repeat accuracy	<= 5 % of Sr
Output circuit type	DC
Status LED	Output state: 1 LED (yellow)
Supply voltage limits	10…30 V DC
Maximum residual current	0.1 mA open state
Switching frequency	<= 1000 Hz
Maximum voltage drop	<2 V (closed)
Current consumption	<= 10 mA no-load
Maximum delay first up	40 ms
Maximum delay response	0.00005 ms
Maximum delay recovery	0.023 ms
Marking	CE
Threaded length	46 mm
Height	8 mm
Length	66 mm
Net weight	0.015 kg

Environment

Product certifications	cULus
Ambient air temperature for operation	-25…70 °C
Ambient air temperature for storage	-25…70 °C
Vibration resistance	25 gn amplitude = +/- 1 mm (f = 10…55 Hz) conforming to IEC 60068-2-6
Shock resistance	30 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	25.0 g
Package 1 Height	1.5 cm
Package 1 width	7 cm
Package 1 Length	10 cm
Unit Type of Package 2	BAG
Number of Units in Package 2	1
Package 2 Weight	25.0 g
Package 2 Height	21.4 cm
Package 2 width	8 cm
Package 2 Length	18 cm
Unit Type of Package 3	S01
Number of Units in Package 3	25
Package 3 Weight	784.0 g
Package 3 Height	15 cm
Package 3 width	15 cm

Package 3 Length	40 cm

Offer Sustainability

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

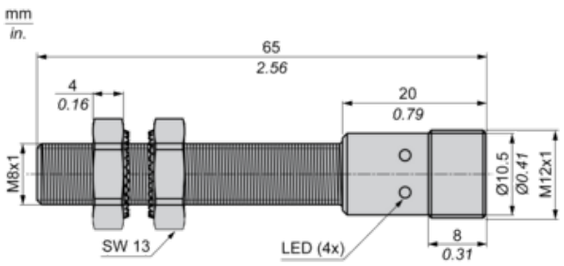
Contractual warranty

Warranty	18 months

Product datasheet XS908R1PAM12

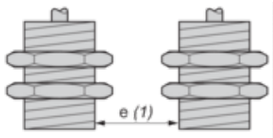
Dimensions Drawings

Dimensions



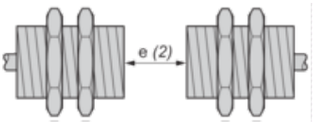
Minimum Mounting Distances in mm

Side by side



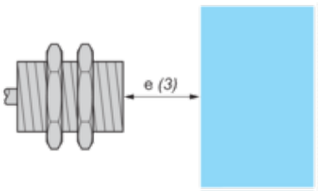
e (1) ≥ 14 mm/0.55 in.

Face to face



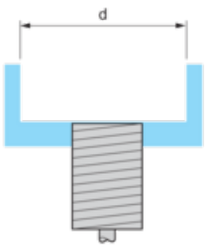
e (2) ≥ 15 mm/0.59 in.

Facing a metal object



e (3) ≥ 10 mm/0.39 in.

Mounted in a metal support



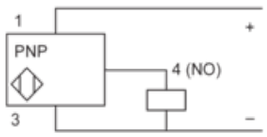
d ≥ 12 mm/0.47 in.

Wiring Schemes

M12 connector



PNP



1 : (+)
2 : Not connected
3 : (-)
4 : NO Output