

Product data sheet

Specifications



Inductive proximity sensors XS,
inductive sensor XS9 M12, L60mm,
full SS 303, Sn6 mm, 12...24 VDC,
M12

XS912R1PAM12

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 M12
Size	60 mm
Body type	Single piece body
Enclosure material	Stainless steel 303
Type of output signal	Discrete
Wiring technique	3-wire
[Sn] nominal sensing distance	6 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	IP69K conforming to DIN 40050 IP68 conforming to IEC 60529

Complementary

Thread type	M12 x 1
Detection face	Frontal
Detector flush mounting acceptance	Flush mountable
Material	Stainless steel 303
Front material	Stainless steel 303
Sensing range	> 4...8 mm
Operating zone	0...4.8 mm
Differential travel	1...15 % of Sr

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	<= 600 Hz
Maximum voltage drop	<2 V (closed)
Current consumption	<= 10 mA no-load
Maximum delay first up	40 ms
Maximum delay response	0.00006 ms
Maximum delay recovery	0.015 ms
Marking	CE
Threaded length	41 mm
Height	12 mm
Length	60 mm
Net weight	0.024 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 Height	1.524 cm
Package 1 Width	10.16 cm
Package 1 Length	7.62 cm
Package 1 Weight	31.752 g
Unit Type of Package 2	S01
Number of Units in Package 2	25
Package 2 Height	15 cm
Package 2 Width	15 cm
Package 2 Length	40 cm
Package 2 Weight	1.014 kg

Offer Sustainability

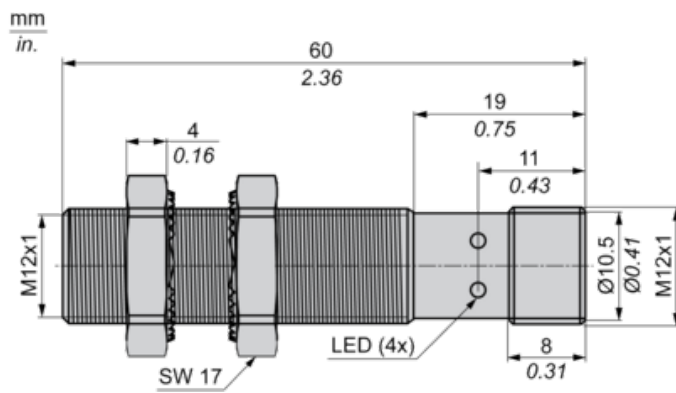
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes

RoHS exemption information	Yes
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

Dimensions Drawings

XS912R1PAM12

Dimensions



Minimum Mounting Distances in mm

Side by side



$e\ (1) \geq 38\text{ mm}/1.50\text{ in.}$

Face to face



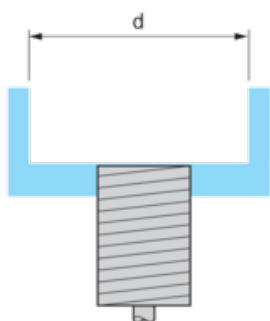
$e\ (2) \geq 30\text{ mm}/1.18\text{ in.}$

Facing a metal object



$e\ (3) \geq 20\text{ mm}/0.79\text{ in.}$

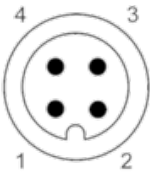
Mounted in a metal support



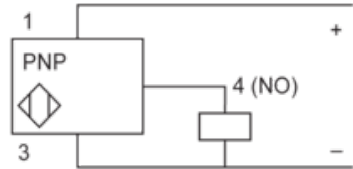
$d \geq 24\text{ mm}/0.94\text{ in.}$

Wiring Schemes

M12 connector



PNP



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

Recommended replacement(s)