Product data sheet

Specifications

Inductive proximity sensors XS, inductive sensor XS9 M18, L64mm, full SS 316L, Sn10mm, 12...24 VDC, M12

XS918S1PAM12

Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	Application
Sensor type	Inductive proximity sensor
Device application	Food and beverage
Market segment	Pharmaceutical
Sensor name	XS9
Sensor design	Cylindrical M18
Size	64 mm
Body type	Single piece body
Enclosure material	Stainless steel 316L
Type of output signal	Discrete
Wiring technique	3-wire
[Sn] nominal sensing distance	10 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	M18 x 1
Detection face	Frontal
Detector flush mounting acceptance	Flush mountable
Material	Stainless steel 316L
Front material	Stainless steel 316L
Sensing range	> 8...15 mm
Operating zone	0…8 mm

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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	<= 300 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	42 mm
Height	18 mm
Length	64 mm
Net weight	0.051 kg

Environment

Product certifications	Ecolab cULus
Ambient air temperature for operation	-25…85 °C
Ambient air temperature for storage	-25…85 °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	Db
Number of Units in Package 1	1
Package 1 Height	2.03 cm
Package 1 Width	15.24 cm
Package 1 Length	15.24 cm
Package 1 Weight	0.06 kg
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	1.699 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

XS918S1PAM12

Dimensions

XS918S1PAM12
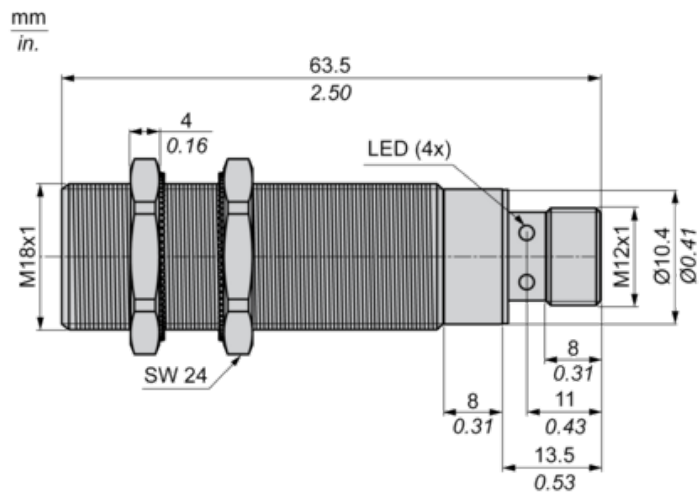
Minimum Mounting Distances

Side by side

e (1) ≥ 42 mm/1.65 in.

Face to face
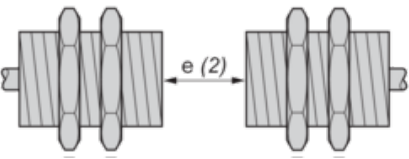
e (2) ≥ 40 mm/1.57 in.

Facing a metal object
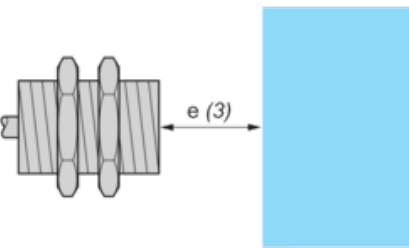
e (3) ≥ 30 mm/1.18 in

Mounted in a metal support
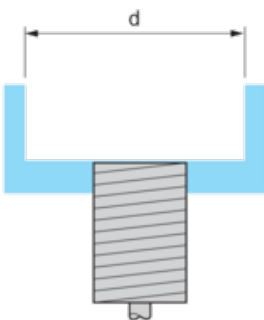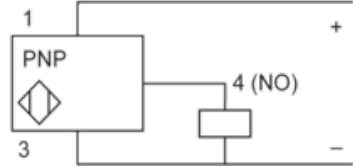

d ≥ 50 mm/1.97 in

Wiring Schemes

M12 connector
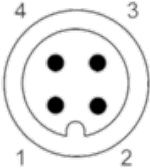
PNP

Recommended replacement(s)