Product datasheet

Specifications

Green Premium™

inductive sensor XS1 M18 - L70mm - stainless - Sn5mm - 12..24VDC - M12

XS1M18PAS40D

Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	Application
Sensor type	Inductive proximity sensor
Device application	Selective detection of ferrous materials
Sensor name	XS1
Sensor design	Cylindrical M18
Size	70 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Stainless steel
Type of output signal	Discrete
Wiring technique	3-wire
[Sn] nominal sensing distance	5 mm
Discrete output function	1 NO
Output circuit type	DC
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

Complementary

Thread type	M18 x 1
Detection face	Frontal
Front material	PPS
Enclosure material	Stainless steel : 304 CU
Operating zone	0…4 mm
Status LED	Output state: 1 LED (yellow)

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Supply voltage limits	10…38 V DC
Switching frequency	<= 1000 Hz
Maximum voltage drop	<2.6 V (closed)
Current consumption	0...15 mA no-load
Maximum delay first up	10 ms
Maximum delay response	0.3 ms
Maximum delay recovery	0.7 ms
Marking	CE
Threaded length	52 mm
Length	70 mm

Environment

Product certifications	CSA UL
Ambient air temperature for operation	-25…70 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	72.0 g
Package 1 Height	4.5 cm
Package 1 width	8.2 cm
Package 1 Length	13.3 cm
Unit Type of Package 2	BAG
Number of Units in Package 2	1
Package 2 Weight	72.0 g
Package 2 Height	1.8 cm
Package 2 width	20 cm
Package 2 Length	15 cm
Unit Type of Package 3	S02
Number of Units in Package 3	27
Package 3 Weight	2.399 kg
Package 3 Height	15 cm
Package 3 width	30 cm
Package 3 Length	40 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

Contractual warranty

Warranty   18 months

XS1M18PAS40D

Dimensions
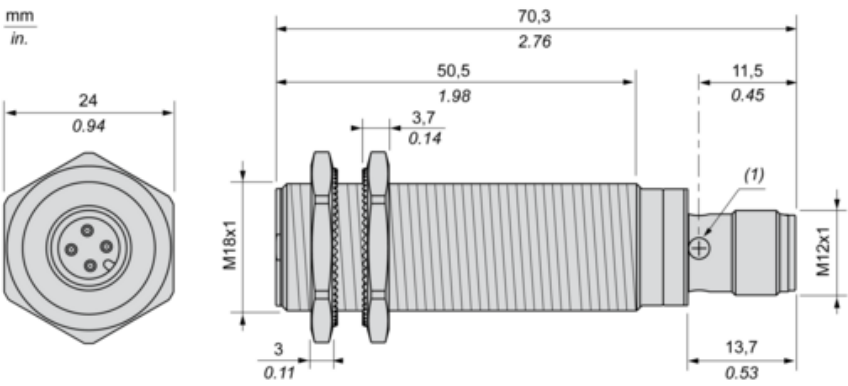
(1) : LED

Minimum Mounting Distances

Side by side

e (1) ≥ 10 mm/0.39 in.

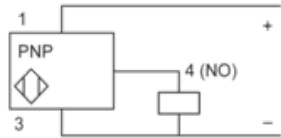Face to face

e (2) ≥ 60 mm/2.36 in.

Facing a metal object
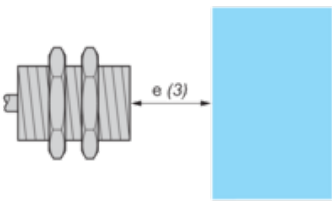
e (3) ≥ 15 mm/0.60 in

Wiring Schemes
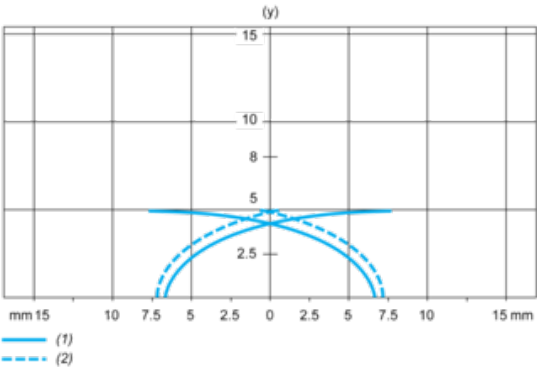
M12 connector

PNP

Performance Curves

Standard Steel Target : 18x18x1 mm

(1) Pick-up points

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

(y) Sensing distance in mm