



inductive sensor XS1 M18, L51mm, brass, Sn5mm, 12..24VDC, M12

XS1N18PC410D

Main

- Indiri	
Range of product	Telemecanique Inductive proximity sensors XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Device application	Mobile equipment
Sensor name	XS1
Sensor design	Cylindrical M18
Size	51 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Metal
Type of output signal	Discrete
Wiring technique	4-wire
[Sn] nominal sensing distance	5 mm
Discrete output function	1 NO + 1 NC
Output circuit type	DC
Discrete output type	PNP
Electrical connection	Male connector M12, 4 pins
[Us] rated supply voltage	1224 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 IP65 conforming to IEC 60529 IP67

Complementary

Safety level	SIL 2 conforming to EN/IEC 61508 PL = d conforming to EN/ISO 13849-1 SILCL 2 conforming to IEC 62061
Safety reliability data	MTTFd = 1810 years PFHd = 62.9E-9 1/h SFF = 92 % DC = 74 % with appropriate safety controller
Service life	20 year(s)

Thread type	M18 x 1
Detection face	Frontal
Front material	PPS
Enclosure material	Nickel plated brass
Operating zone	04 mm
Differential travel	115% of Sr
Wire insulation material	PVC
Status LED	Output state: 1 LED (yellow)
Supply voltage limits	936 V DC
Switching frequency	<= 2000 Hz
Maximum voltage drop	<2 V (closed)
Current consumption	010 mA no-load
Maximum delay first up	5 ms
Maximum delay response	0.15 ms
Maximum delay recovery	0.35 ms
Marking	CE
Threaded length	28 mm
Length	51 mm
Net weight	0.04 kg
Environment	
Standards	IEC 62061 EN/ISO 13849-1
Product certifications	E2 CSA TÜV UL
Ambient air temperature for operation	-2570 °C
Ambient air temperature for storage	-4085 °C
Vibration resistance	25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn for 11 ms conforming to IEC 60068-2-27
Packing Units	PCE
Unit Type of Package 1	
Number of Units in Package 1	1 2.4 cm
Package 1 Height	8.0 cm
Package 1 Length	
Package 1 Length	12.0 cm
Package 1 Weight	58.0 g

S02

44

15 cm

30 cm

40 cm

Unit Type of Package 2

Package 2 Height

Package 2 Width

Package 2 Length

Number of Units in Package 2

Package 2 Weight	2.882 kg	
Offer Sustainability		
0 1: 11 % 1.1	O D	

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	

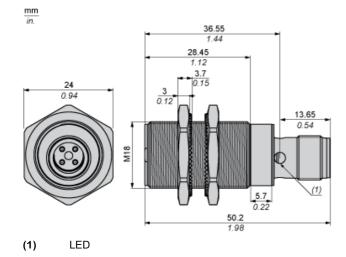
Contractual warranty

Warranty 18 months

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Dimensions Drawings

Dimensions

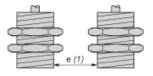


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Mounting and Clearance

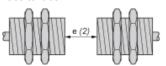
Minimum Mounting Distances

Side by side



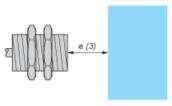
e (1) ≥ 10 mm/0.39 in.

Face to face



e (2) ≥ 60 mm/2.36 in.

Facing a metal object



e (3) ≥ 15 mm/0.60 in

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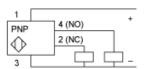
Connections and Schema

Wiring Schemes

M12 connector



PNP 4-wire

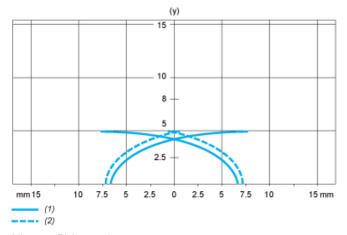


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Performance Curves

Performance Curves

Standard Steel Target: 18x18x1 mm



- (1) (2) (y) Pick-up points
- Drop-out points (object approaching from the side) Sensing distance in mm

Recommended replacement(s)