

inductive sensor XS1 M30, L53mm, brass, Sn10mm, 12...24 VDC, M12

XS1N30PC410D

Main

- Indiii	
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 M30
Size	54 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	10 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
Sarvica life	20 year(s)

Service life 20 year(s)

Thread type	M30 x 1.5
Detection face	Frontal
Front material	PPS
Enclosure material	Nickel plated brass
Operating zone	08 mm
Differential travel	115% of Sr
Status LED	Output state: 1 LED (yellow)
Supply voltage limits	936 V DC
Switching frequency	<= 1000 Hz
Maximum voltage drop	<2 V (closed)
Current consumption	010 mA no-load
Maximum delay first up	5 ms
Maximum delay response	0.3 ms
Maximum delay recovery	0.7 ms
Marking	CE
Threaded length	33 mm
Length	54 mm
Net weight	0.1 kg
Environment	
Standards	IEC 62061 EN/ISO 13849-1
Product certifications	UL E2
	CSA TÜV
Ambient air temperature for	-2570 °C
operation	
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	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.1 cm
Package 1 Width	8.4 cm

12.4 cm

128.0 g

S01

22

15 cm

15 cm

40 cm

3.003 kg

Package 1 Length

Package 1 Weight

Package 2 Height

Package 2 Width

Package 2 Length

Package 2 Weight

Unit Type of Package 2

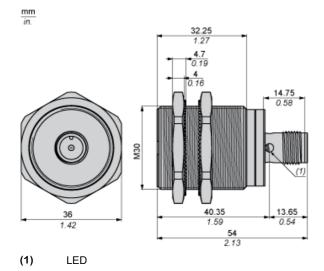
Number of Units in Package 2

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
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

Warranty 18 months **Dimensions Drawings**

Dimensions

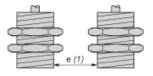


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Mounting and Clearance

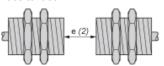
Minimum Mounting Distances

Side by side

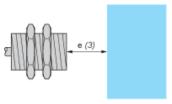


e (1) ≥ 20 mm/0.79 in

Face to face



e (2) ≥ 120 mm/4.72 in Facing a metal object



e (3) ≥ 30 mm/1.18 in.

Product data sheet

XS1N30PC410D

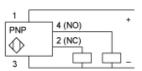
Connections and Schema

Wiring Schemes

M12 connector



PNP 4-wire



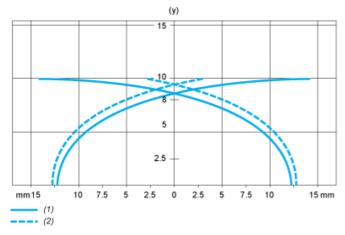
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Performance Curves

Performance Curves

Standard Steel Target: 30x30x1 mm



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

Recommended replacement(s)