Product data sheet
Characteristics

XS1N30PC410D
inductive sensor XS1 M30, L53mm, brass, Sn10mm, 12...24 VDC, M12



Main

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	0.39 in (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	12...24 V DC reverse polarity protection
Switching capacity in mA	<= 200 mA 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 EN/IEC 61508 PL = d EN/ISO 13849-1 SILCL 2 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	M30 x 1.5
Detection face	Frontal
Front material	PPS
Enclosure Material	Nickel Plated Brass
Operating zone	0.00…0.31 in (0…8 mm)
Differential travel	1...15% of Sr
Status LED	Output state 1 LED yellow)
Supply voltage limits	9…36 V DC
Switching frequency	<= 1000 Hz
Maximum voltage drop	<2 V closed)
Current consumption	0...10 mA no-load
Maximum delay first up	5 ms
Maximum delay response	0.3 ms

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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Maximum delay recovery	0.7 ms
Marking	CE
Threaded length	1.30 in (33 mm)
Length	2.13 in (54 mm)
Net Weight	0.22 lb(US) (0.1 kg)

Environment

Standards	IEC 62061 EN/ISO 13849-1
Product Certifications	UL E2 CSA TÜV
Ambient Air Temperature for Operation	-13…158 °F (-25…70 °C)
Ambient Air Temperature for Storage	-40…185 °F (-40…85 °C)
Vibration resistance	25 gn +/- 2 mm 10…55 Hz)IEC 60068-2-6
Shock resistance	50 gn 11 ms IEC 60068-2-27

Ordering and shipping details

Category	22486-SENSORS, PROXIMITY
Discount Schedule	DS2
GTIN	3389110917369
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.61 in (4.1 cm)
Package 1 Width	3.31 in (8.4 cm)
Package 1 Length	4.88 in (12.4 cm)
Package 1 Weight	4.51 oz (128.0 g)
Unit Type of Package 2	S01
Number of Units in Package 2	22
Package 2 Height	5.91 in (15 cm)
Package 2 Width	5.91 in (15 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	6.62 lb(US) (3.003 kg)

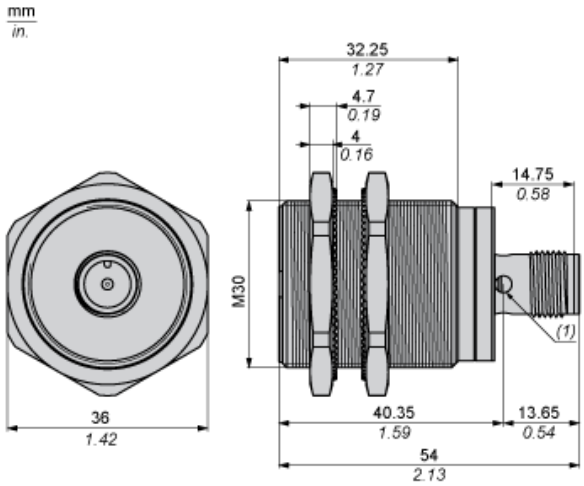
Offer Sustainability

Sustainable offer status	Green Premium product
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
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

Contractual warranty

Warranty	18 months

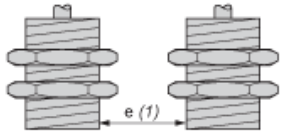
Dimensions



(1) LED

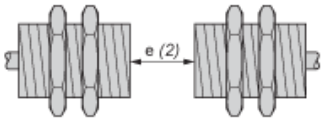
Minimum Mounting Distances

Side by side



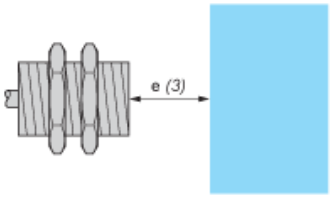
e (1) 20 mm/0.79 in
≥

Face to face



e (2) 120 mm/4.72 in
≥

Facing a metal object



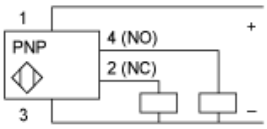
e (3) 30 mm/1.18 in.
≥

Wiring Schemes

M12 connector

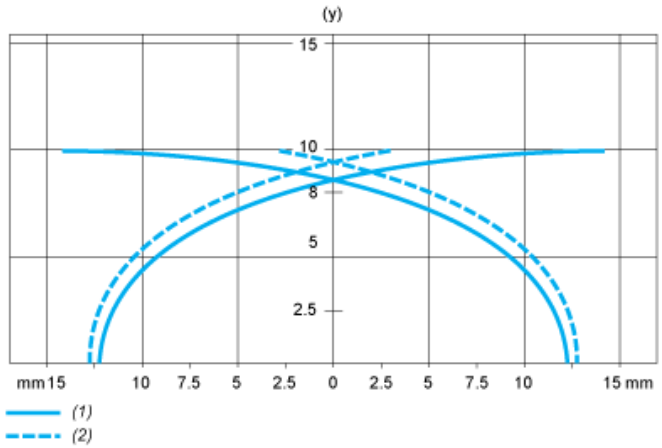


PNP 4-wire



Performance Curves

Standard Steel Target : 30x30x1 mm



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