

XS1N12NC410D

inductive sensor XS1 M12, L48mm, brass,
Sn2mm, 12..24VDC, M12



Main

Range of Product	Telemecanique Inductive proximity sensors XS
Series name	General purpose
Sensor Type	Inductive proximity sensor
Sensor name	XS1
Sensor design	Cylindrical M12
Size	50 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	0.08 in (2 mm)
Discrete output function	1 NO + 1 NC
Output circuit type	DC
Discrete output type	NPN
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	IP67 conforming to IEC 60529

Complementary

Thread type	M12 x 1
Detection face	Frontal
Front material	PPS
Enclosure Material	Nickel Plated Brass
Operating zone	0.00...0.06 in (0...1.6 mm)
Differential travel	1...15% of Sr
Status LED	Output state 1 LED yellow)
Supply voltage limits	10...36 V DC
Switching frequency	<= 5000 Hz
Maximum voltage drop	<2 V closed)
Current consumption	0...10 mA no-load
Maximum delay first up	5 ms
Maximum delay response	0.1 ms
Maximum delay recovery	0.1 ms
Marking	CE
Threaded length	1.22 in (31 mm)
Length	1.97 in (50 mm)
Net Weight	0.04 lb(US) (0.02 kg)

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Environment

Product certifications	CSA UL
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	3389110916768
Nbr. of units in pkg.	1
Package weight(Lbs)	1.52 oz (43.0 g)
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.77 in (4.5 cm)
Package 1 width	2.83 in (7.2 cm)
Package 1 Length	3.23 in (8.2 cm)
Unit Type of Package 2	BAG
Number of Units in Package 2	1
Package 2 Weight	1.52 oz (43.0 g)
Package 2 Height	0.47 in (1.2 cm)
Package 2 width	7.87 in (20 cm)
Package 2 Length	5.91 in (15 cm)

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
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Technical drawing of a 1/2" NPT x 1/2" NPT female adapter. The drawing includes a top view showing a hexagonal nut with a central threaded hole and a side view showing the adapter's profile. Dimensions are provided in both millimeters (mm) and inches (in.).

Top View Dimensions:

- Hexagonal nut outer diameter: 17 mm (0.66 in.)

Side View Dimensions:

- Total length: 47 mm (1.84 in.)
- Hexagonal nut thickness: 3.7 mm (0.14 in.)
- Threaded section length: 28 mm (1.10 in.)
- Adapter body length: 19 mm (0.74 in.)
- Adapter body diameter: 11.5 mm (0.45 in.)
- Distance from nut face to start of adapter body: 11.5 mm (0.45 in.)
- Distance from nut face to end of adapter body: 47 mm (1.84 in.)
- Distance from nut face to start of threaded section: 28 mm (1.10 in.)
- Distance from nut face to end of threaded section: 32 mm (1.26 in.)
- Distance from nut face to end of adapter body: 47 mm (1.84 in.)
- Distance from nut face to start of adapter body: 11.5 mm (0.45 in.)
- Distance from nut face to end of adapter body: 47 mm (1.84 in.)
- Distance from nut face to start of adapter body: 11.5 mm (0.45 in.)
- Distance from nut face to end of adapter body: 47 mm (1.84 in.)

Thread Specifications:

- Hexagonal nut: M12x1
- Adapter body: M12x1

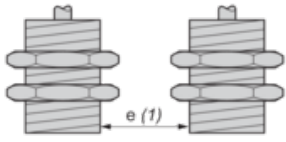
Other Features:

- Adapter body has a central hole with a diameter of 3 mm (0.11 in.).
- Adapter body has a detail view (1) showing a cross-section of the body.

(1) : LED

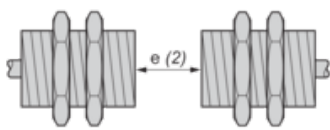
Minimum Mounting Distances

Side by side



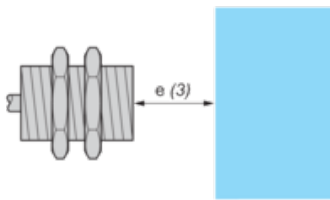
$e (1) \geq 4 \text{ mm}/0.16 \text{ in.}$

Face to face



$e (2) \geq 24 \text{ mm}/0.94 \text{ in.}$

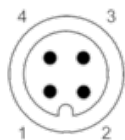
Facing a metal object



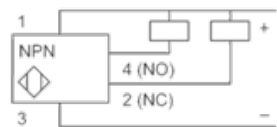
$e (3) \geq 6 \text{ mm}/0.24 \text{ in.}$

Wiring Schemes

M12 connector

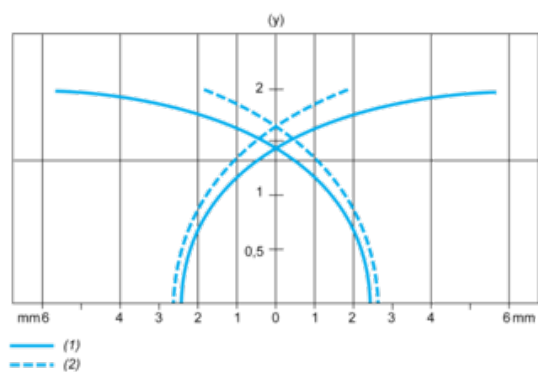


NPN 4-wire



Performance Curves

Standard Steel Target : 12x12x1 mm



(1) Pick-up points

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

(y) Sensing distance in mm