

XS2N12NC410

inductive sensor XS2 M12, L38mm, brass,
Sn4mm, 12..24VDC, cable 2 m



Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Sensor name	XS2
Sensor design	Cylindrical M12
Size	38 mm
Body type	Fixed
Detector flush mounting acceptance	Non flush mountable
Material	Metal
Type of output signal	Discrete
Wiring technique	4-wire
[Sn] nominal sensing distance	4 mm
Discrete output function	1 NO + 1 NC
Output circuit type	DC
Discrete output type	NPN
Electrical connection	Cable
Cable length	2 m
[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	IP68 double insulation conforming to IEC 60529

Complementary

Thread type	M12 x 1
Detection face	Frontal
Front material	PPS
Enclosure material	Nickel plated brass
Operating zone	0...3.2 mm
Differential travel	1...15% of Sr
Cable composition	4 x 0.22 mm ²
Wire insulation material	PVC
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	25 mm
Length	38 mm
Net weight	0.07 kg

Environment

Product certifications	UL[RETURN]CSA
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °C
Vibration resistance	25 gn amplitude = +/- 2 mm (f = 10...55 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	4.5 cm
Package 1 Width	8 cm
Package 1 Length	14.5 cm
Package 1 Weight	89 g

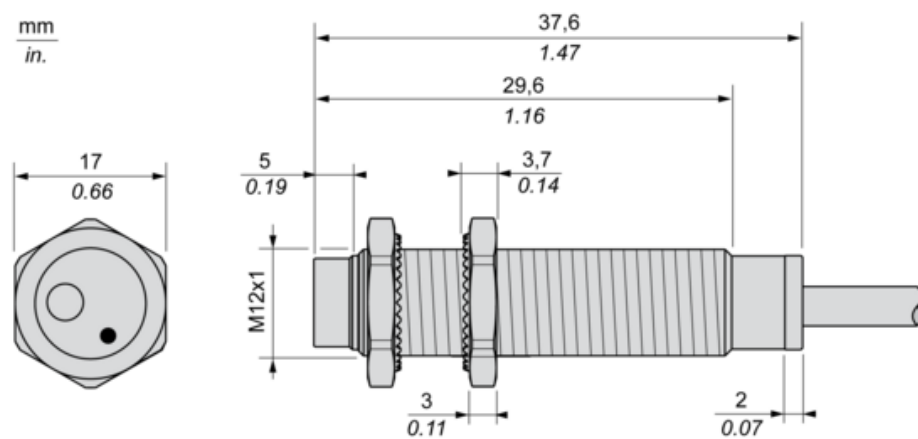
Offer Sustainability

Sustainable offer status	Green Premium product
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
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

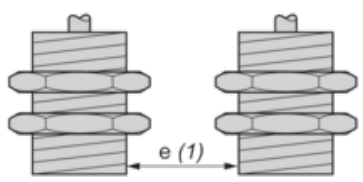
Warranty	18 months
----------	-----------

Dimensions



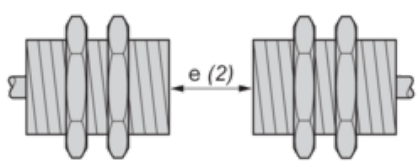
Minimum Mounting Distances

Side by side



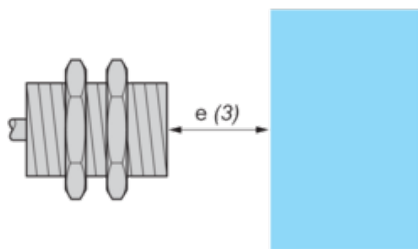
$$e (1) \geq 16 \text{ mm}/0.63 \text{ in.}$$

Face to face



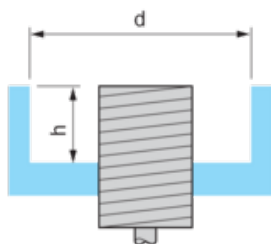
$$e (2) \geq 48 \text{ mm}/1.89 \text{ in.}$$

Facing a metal object



$$e (3) \geq 12 \text{ mm}/0.47 \text{ in.}$$

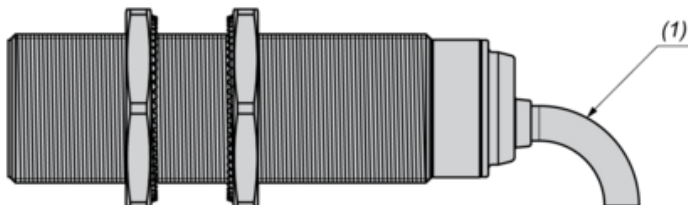
Mounted in a metal support



$$d \geq 36 \text{ mm}/1.42 \text{ in.}$$

$$h \geq 8 \text{ mm}/0.31 \text{ in.}$$

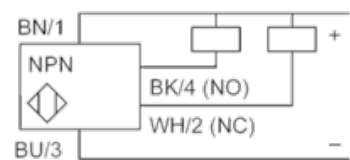
Mounting



(1) Bending cable: 4 x external cable diameter

Wiring Schemes

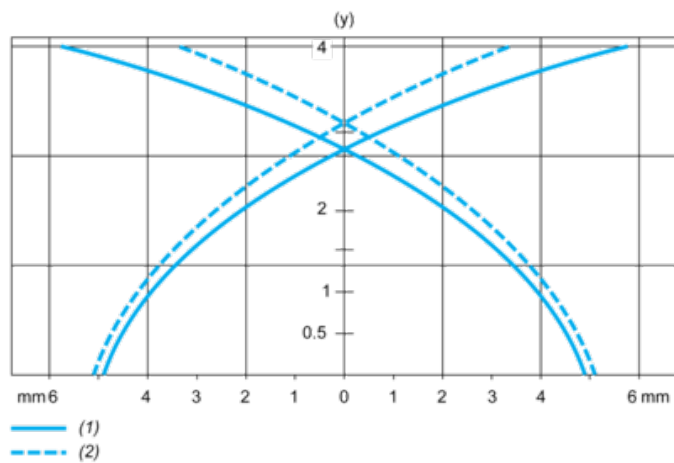
NPN 4-wire



BU : Blue
BN : Brown
BK : Black
WH : White

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