Product data sheet
Characteristics

XS1N12NA349
Inductive proximity sensors XS, inductive sensor XS1 M12, L35mm, brass, Sn4mm, 12...24 VDC, cable 2 m



Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Device application	-
Sensor name	XS1
Sensor design	Cylindrical M12
Size	35 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Metal
Enclosure material	Nickel Plated Brass
Type of output signal	Discrete
Wiring technique	3-wire
[Sn] nominal sensing distance	0.16 in (4 mm)
Discrete output function	1 NO
Output circuit type	DC
Discrete output type	NPN
Electrical connection	Cable
Cable length	6.56 ft (2 m)
[Us] rated supply voltage	12...24 V DC reverse polarity protection
Switching capacity in mA	<= 200 mA DC overload and short-circuit protection
IP degree of protection	IP68 double insulation conforming to IEC 60529 IP69K conforming to DIN 40050

Complementary

Thread type	M12 x 1
Detection face	Frontal
Front material	PPS
Operating zone	0.00…0.13 in (0…3.2 mm)
Differential travel	1...15% of Sr
Cable composition	3 x 0.34 mm²
Wire insulation material	PvR
Status LED	Output state 1 LED yellow)
Supply voltage limits	10…36 V DC
Switching frequency	<= 2500 Hz
Maximum voltage drop	<2 V closed)
Current consumption	0...10 mA no-load
Maximum delay first up	5 ms
Maximum delay response	0.2 ms
Maximum delay recovery	0.2 ms
Marking	CE
Threaded length	0.98 in (25 mm)

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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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Height	0.47 in (12 mm)
Length	1.38 in (35 mm)
Net Weight	0.15 lb(US) (0.07 kg)

Environment

Product certifications	UL CSA
Ambient air temperature for operation	-13…122 °F (-25…50 °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	00785901911326
Nbr. of units in pkg.	1
Package weight(Lbs)	1 lb(US) (0.45 kg)
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.10 in (2.8 cm)
Package 1 width	3.98 in (10.1 cm)
Package 1 Length	6.02 in (15.3 cm)
Unit Type of Package 2	BAG
Number of Units in Package 2	1
Package 2 Weight	3.21 oz (91 g)
Package 2 Height	0.79 in (2 cm)
Package 2 width	7.87 in (20 cm)
Package 2 Length	5.91 in (15 cm)
Unit Type of Package 3	S02
Number of Units in Package 3	22
Package 3 Weight	4.15 lb(US) (1.884 kg)
Package 3 Height	5.91 in (15 cm)
Package 3 width	11.81 in (30 cm)
Package 3 Length	15.75 in (40 cm)

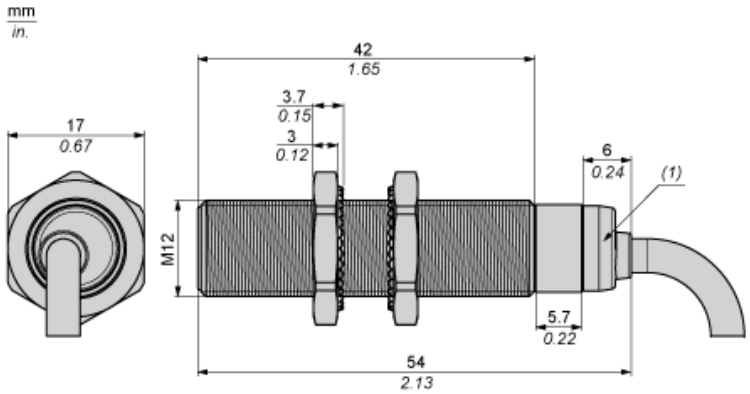
Offer Sustainability

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

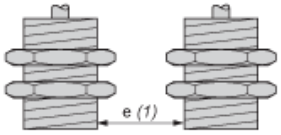
Dimensions



(1) LED

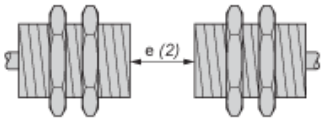
Minimum Mounting Distances in mm

Side by side



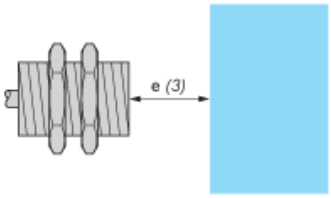
e (1) 8 mm/0.31 in.
≥

Face to face



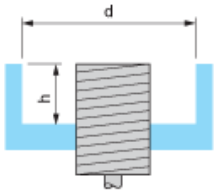
e (2) 48 mm/1.89 in.
≥

Facing a metal object



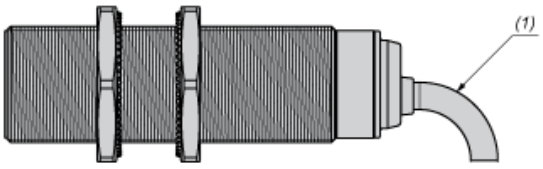
e (3) 12 mm/0.47 in.
≥

Mounted in a metal support



d ≥ 14 mm/0.55 in.
h ≥ 2.4 mm/0.09 in

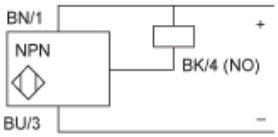
Mounting



(1) Bending cable: 4 x external cable diameter

Wiring Schemes

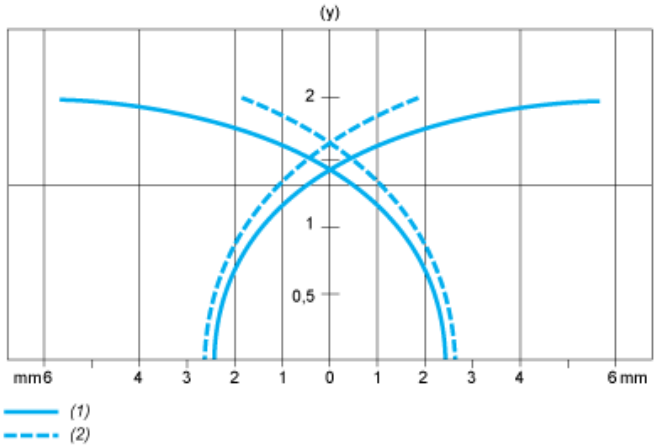
NPN



BU : Blue
BN : Brown
BK : Black

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