

XS1N05NA310L2

inductive sensor XS1 M5 - L29mm - brass -
Sn1mm - 5..24VDC - cable 10m



Main

Range of product	OsiSense XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Device application	-
Sensor name	XS1
Sensor design	Cylindrical M5
Size	29 mm
Body type	Fixed
Detector flush mounting acceptance	Flush mountable
Material	Metal
Type of output signal	Discrete
Wiring technique	3-wire
[Sn] nominal sensing distance	1 mm
Discrete output function	1 NO
Output circuit type	DC
Discrete output type	NPN
Electrical connection	Cable
Cable length	10 m
[Us] rated supply voltage	5...24 V DC
Switching capacity in mA	<= 100 mA with overload and short-circuit protection
IP degree of protection	IP67 conforming to IEC 60529

Complementary

Thread type	M5 x 0.5
Detection face	Frontal
Front material	PPS
Enclosure material	Nickel plated brass
Operating zone	0...0.8 mm
Cable composition	3 x 0.11 mm ²
Wire insulation material	PvR
Status LED	Output state: 1 LED (yellow)
Supply voltage limits	5...30 V DC
Switching frequency	<= 5000 Hz
Maximum voltage drop	<2 V (closed)
Current consumption	<= 10 mA no-load
Maximum delay first up	5 ms
Maximum delay response	1 ms
Maximum delay recovery	1 ms
Marking	CE
Threaded length	29 mm
Height	5 mm
Length	29 mm

Environment

Product certifications	CSA UL
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

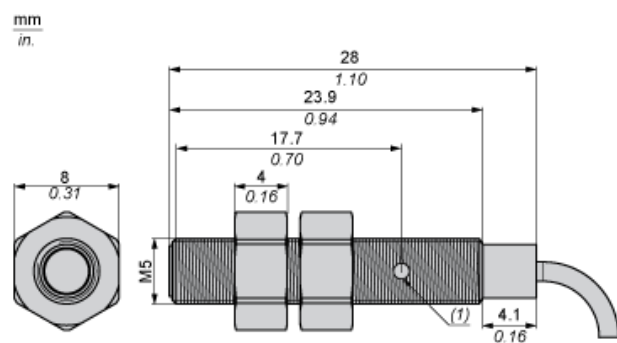
Packing Units

Package 1 Weight	0.153 kg
Package 1 Height	0.450 dm
Package 1 width	0.800 dm
Package 1 Length	1.480 dm

Contractual warranty

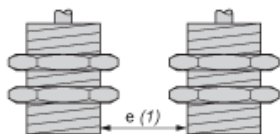
Warranty	18 months
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Dimensions



Minimum Mounting Distances in mm

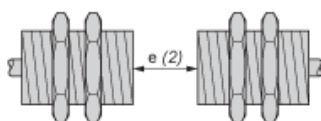
Side by side



e (1) 2 mm/0.79 in.

≥

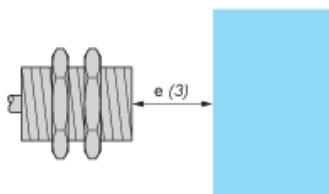
Face to face



e (2) 12 mm/0.47 in.

≥

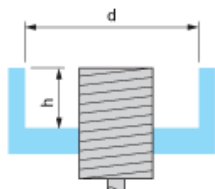
Facing a metal object



e (3) 3 mm/0.12 in.

≥

Mounted in a metal support

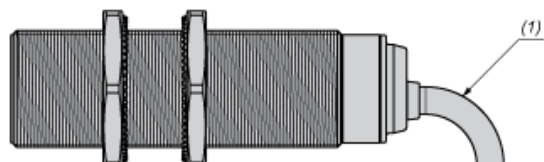


d ≥ 5 mm/0.17 in.

h ≥ 0 mm/0 in.

Tightening torque : 1.6 N.m. (values obtained with washers mounted)

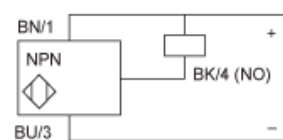
Mounting



(1) Bending cable: 4 x external cable diameter

Wiring Schemes

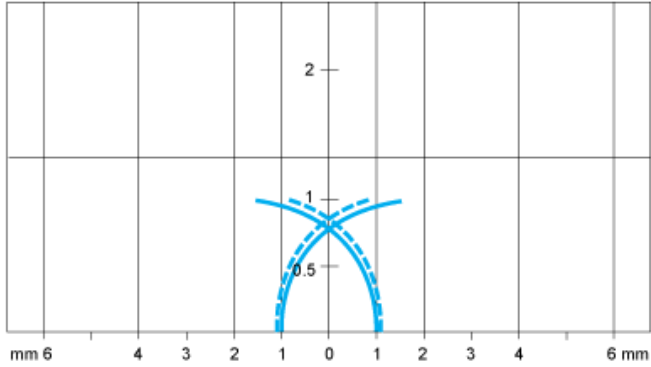
NPN



BU : Blue
BN : Brown
BK : Black

Performance Curves

Standard Steel Target (mm) : 5x5x1



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