

XS1N05PB311L1

inductive sensor XS1 M5 - L29mm - stainless -
Sn0.8mm - 5..24VDC - cable 5m



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	Stainless steel
Type of output signal	Discrete
Wiring technique	3-wire
[Sn] nominal sensing distance	0.8 mm
Discrete output function	1 NC
Output circuit type	DC
Discrete output type	PNP
Electrical connection	Cable
Cable length	5 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	Stainless steel 303
Operating zone	0...0.6 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	0...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
Length	29 mm

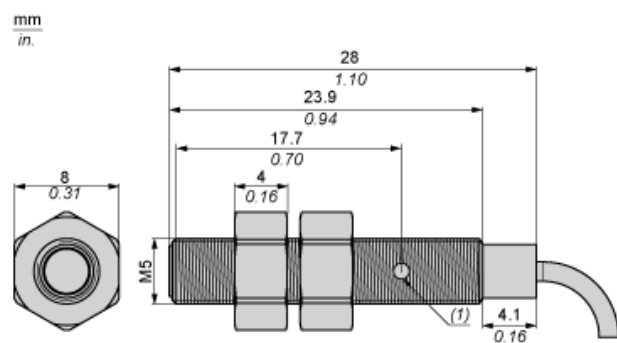
Environment

Product certifications	UL 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

Contractual warranty

Warranty	18 months
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Dimensions



(1) LED

Minimum Mounting Distances in mm

Side by side



$e(1) \geq 2 \text{ mm}/0.79 \text{ in.}$

$\geq$

Face to face



$e(2) \geq 12 \text{ mm}/0.47 \text{ in.}$

$\geq$

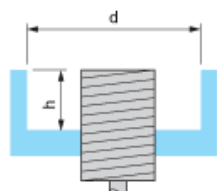
Facing a metal object



$e(3) \geq 3 \text{ mm}/0.12 \text{ in.}$

$\geq$

Mounted in a metal support

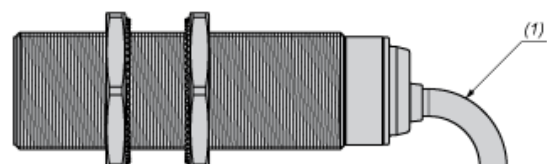


$d \geq 5 \text{ mm}/0.17 \text{ in.}$

$h \geq 0 \text{ mm}/0 \text{ in.}$

Tightening torque : 2.2 N.m. (values obtained with washers mounted)

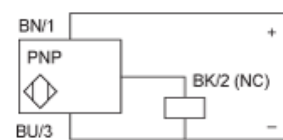
Mounting



(1) Bending cable: 4 x external cable diameter

Wiring Schemes

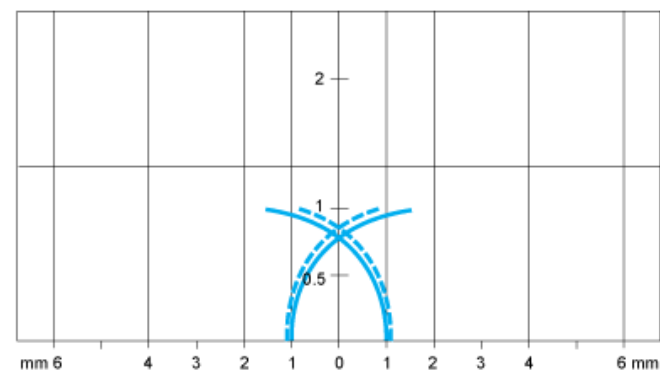
PNP



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