Product data sheet
Characteristics

XS1L04NA310

inductive sensor XS1 Ø4 - L29mm - brass - Sn1mm - 5..24VDC - cable 2m

Green Premium Product

Main

Range of product	OsiSense XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Device application	-
Sensor name	XS1
Sensor design	Cylindrical Ø 4 mm plain
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	2 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

Detection face	Frontal
Front material	PPS
Enclosure material	Nickel plated brass
Operating zone	0...0.8 mm

Cable composition	3 x 0.11 mm²
Wire insulation material	PvR
Status LED	1 LED yellow for output state
Supply voltage limits	5...30 V DC
Switching frequency	<= 5000 Hz
Voltage drop	<= 2 V at closed state
Current consumption	<= 10 mA at no-load
Delay first up	<= 5 ms
Delay response	<= 1 ms
Delay recovery	<= 1 ms
Marking	CE
Threaded length	0 mm
Height	4 mm
Length	28 mm
Product weight	0.025 kg

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

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0935 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available Available
Product end of life instructions	Available Available

Contractual warranty

Warranty period	18 months

XS1L04NA310

Dimensions

mm
in.

28
1.10

22.3
0.88

5.7
0.22

17.7
0.70

Ø4.08
Ø0.16

(1)

(1)   LED

XS1L04NA310
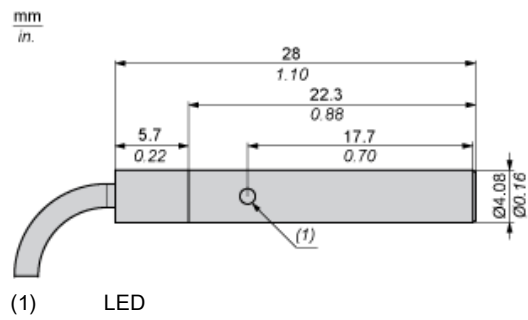
Minimum Mounting Distances in mm

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
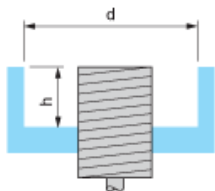
d ≥   4 mm/0.16 in.
h ≥   0 mm/0 in.

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

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Mounting

(1) Bending cable: 4 x external cable diameter

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Wiring Schemes

NPN

BU :   Blue
BN :   Brown
BK :   Black

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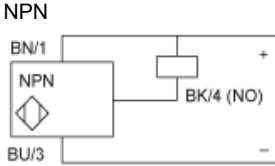
Performance Curves

Standard Steel Target (mm) : 5x5x1
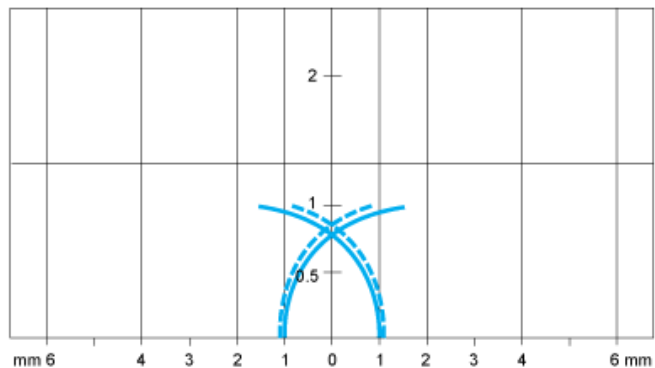
Pick-up points
Drop-out points (object approaching from the side)
(y)　　　Sensing distance in mm