Product data sheet
Characteristics

XS1L04PA311L2

inductive sensor XS1 Ø4 - L29mm - stainless - Sn0.8mm - 5..24VDC - cable 10m

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	Stainless steel
Type of output signal	Discrete
Wiring technique	3-wire
[Sn] nominal sensing distance	0.8 mm
Discrete output function	1 NO
Output circuit type	DC
Discrete output type	PNP
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

Detection face	Frontal
Front material	PPS
Enclosure material	Stainless steel 303
Operating zone	0…0.6 mm
Cable composition	3 x 0.11 mm²
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	0 mm
Height	4 mm
Length	28 mm
Net weight	0.345 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

Packing Units

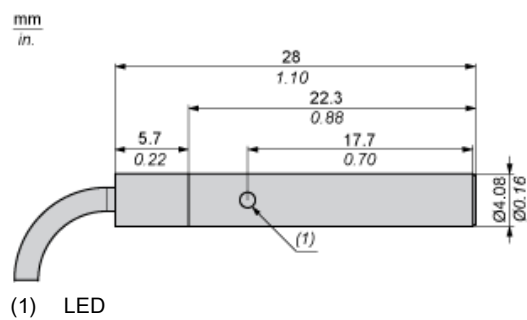|	
Package 1 Weight	0.049 kg
Package 1 Height	0.450 dm
Package 1 width	0.800 dm
Package 1 Length	1.470 dm

Offer Sustainability

Sustainable offer status	Green Premium product
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

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Sensors

XS1L04PA311L2

Dimensions

(1) LED

XS1L04PA311L2

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
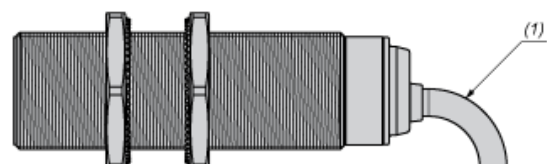
e (3) 3 mm/0.12 in.
≥

Mounted in a metal support

d ≥   4 mm/0.16 in.
h ≥   0 mm/0 in.

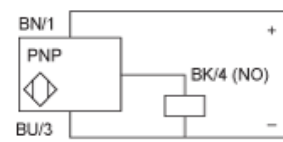Tightening torque : 2.2 N.m. (values obtained with washers mounted)

Mounting
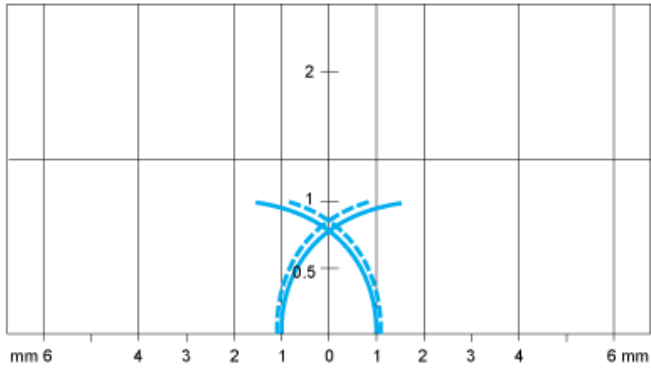
(1)   Bending cable: 4 x external cable diameter

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Sensors

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