Product data sheet
Characteristics

XS1N05PB310

inductive sensor XS1 M5 - L29mm - brass - Sn1mm - 5..24VDC - cable 2m

Green Premium™

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 NC
Output circuit type	DC
Discrete output type	PNP
Electrical connection	Cable
Cable length	6.56 ft (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 IEC 60529

Complementary

Thread type	M5 x 0.5
Detection face	Frontal
Front material	PPS

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Enclosure material	Nickel plated brass
Operating zone	0.00…0.03 in (0…0.8 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	1.14 in (29 mm)
Height	0.20 in (5 mm)
Length	1.10 in (28 mm)

Environment

Product certifications	CSA UL
Ambient air temperature for operation	-13…158 °F (-25…70 °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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	1.13 oz (32 g)
Package 1 Height	0.83 in (2.1 cm)
Package 1 width	2.76 in (7 cm)
Package 1 Length	5.91 in (15 cm)
Unit Type of Package 2	BAG
Number of Units in Package 2	1
Package 2 Weight	1.83 oz (52 g)
Package 2 Height	0.39 in (1 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	33.87 oz (960.2 g)
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
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

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Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

Contractual warranty

Warranty	18 months

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Dimensions

(1)   LED

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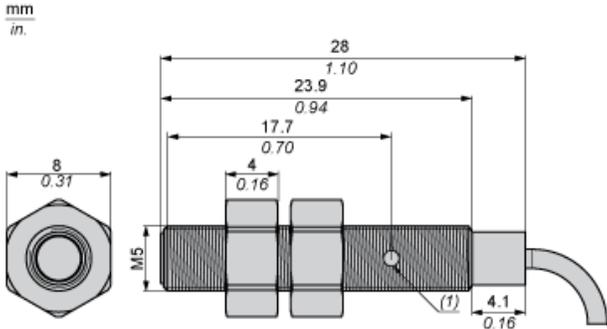
Minimum Mounting Distances in mm

Side by side
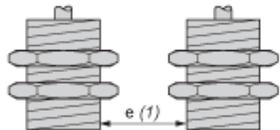
e (1) ≥   2 mm/0.79 in.

Face to face
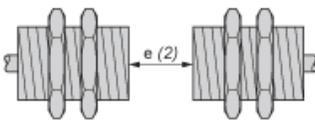
e (2) ≥   12 mm/0.47 in.

Facing a metal object
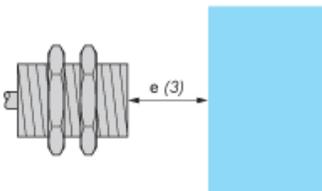
e (3) ≥   3 mm/0.12 in.

Mounted in a metal support
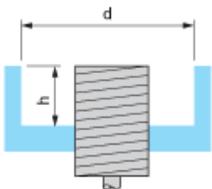
d ≥   5 mm/0.17 in.
h ≥   0 mm/0 in.

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

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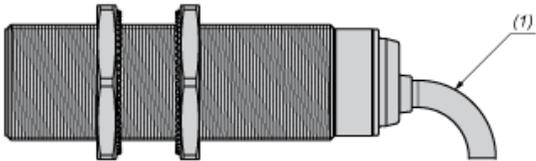
(1)   Bending cable: 4 x external cable diameter

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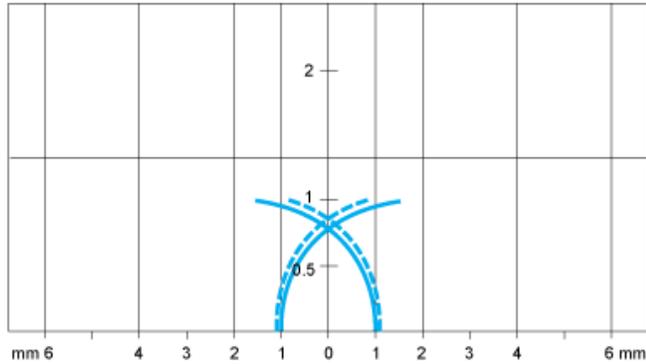
Wiring Schemes

PNP
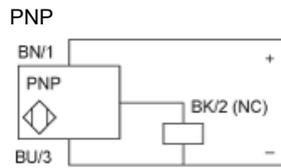
BU :   Blue
BN :   Brown
BK :   Black

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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