

Product data sheet

Specifications



Inductive proximity sensors XS, inductive sensor XS1 M5, L28mm, stainless, Sn0.8mm, 5..24VDC, cable 5m

XS1N05PA311L1

⚠ Discontinued

⚠ Discontinued on: 20 April 2022

Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Device application	-
Sensor name	XS1
Sensor design	Cylindrical M5
Size	28 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	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 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	24 mm
Length	28 mm
Net weight	0.15 kg

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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	150.0 g
Package 1 Height	13.3 cm
Package 1 width	4.5 cm
Package 1 Length	8.2 cm
Unit Type of Package 2	BAG
Number of Units in Package 2	1
Package 2 Weight	160.0 g
Package 2 Height	1.5 cm
Package 2 width	20.0 cm
Package 2 Length	15.0 cm

Offer Sustainability

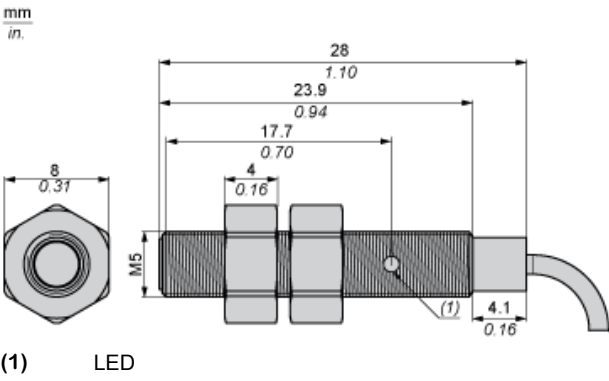
Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration

Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Contractual warranty

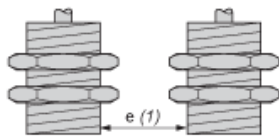
Warranty	18 months
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Dimensions



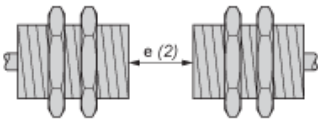
Minimum Mounting Distances in mm

Side by side



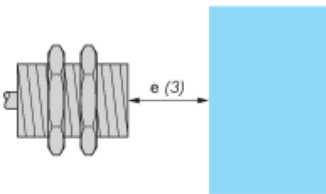
e (1) ≥ 2 mm/0.79 in.

Face to face



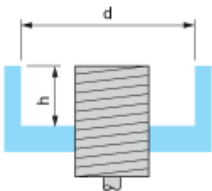
e (2) ≥ 12 mm/0.47 in.

Facing a metal object



e (3) ≥ 3 mm/0.12 in.

Mounted in a metal support

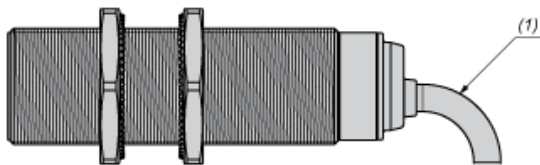


d ≥ 5 mm/0.17 in.

h ≥ 0 mm/0 in.

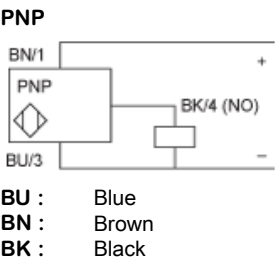
Tightening torque : 2.2 N.m. (values obtained with washers mounted)

Mounting



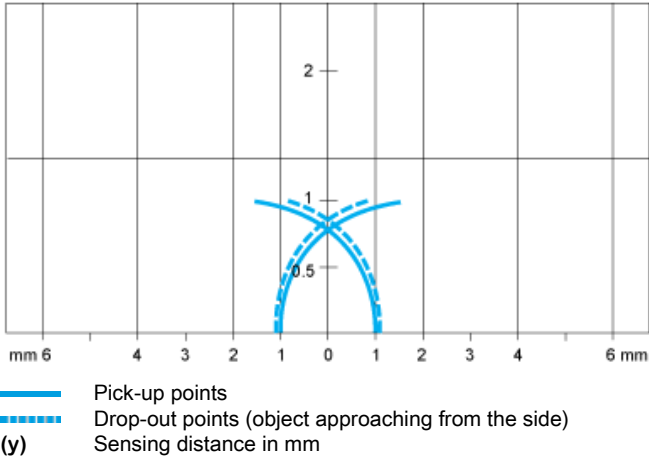
(1) Bending cable: 4 x external cable diameter

Wiring Schemes





Performance Curves

Standard Steel Target (mm) : 5x5x1



Recommended replacement(s)

XS1N05PA311L1 is replaced by the following group of products:

1x		Inductive proximity sensors XS, inductive sensor XS1 M5, L42mm, stainless, Sn0.8mm, 5..24VDC, M8 XS1N05PA311S
1x		Pre wired connectors XZ, straight female, M8, 3 pins, cable PVC 5 m XZCPV0566L5