Product data sheet
Characteristics

XS1L04PA310S
Inductive proximity sensors XS, inductive sensor XS1 Ø4, L42mm, brass, Sn1mm, 5..24VDC, M8



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 Ø 4 mm plain
Size	42 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	0.04 in (1 mm)
Discrete output function	1 NO
Output circuit type	DC
Discrete output type	PNP
Electrical connection	Male connector M8, 3 pins
[Us] rated supply voltage	5...24 V DC
Switching capacity in mA	<= 100 mA 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	0.00…0.03 in (0…0.8 mm)
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	0.00 in (0 mm)
Length	1.65 in (42 mm)
Net Weight	0.02 lb(US) (0.01 kg)

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This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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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

Ordering and shipping details

Category	22486-SENSORS, PROXIMITY
Discount Schedule	DS2
GTIN	3389110910032
Returnability	Yes
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.61 in (4.1 cm)
Package 1 Width	3.74 in (9.5 cm)
Package 1 Length	2.56 in (6.5 cm)
Package 1 Weight	0.28 oz (8.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	44
Package 2 Height	5.91 in (15 cm)
Package 2 Width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	23.63 oz (670 g)

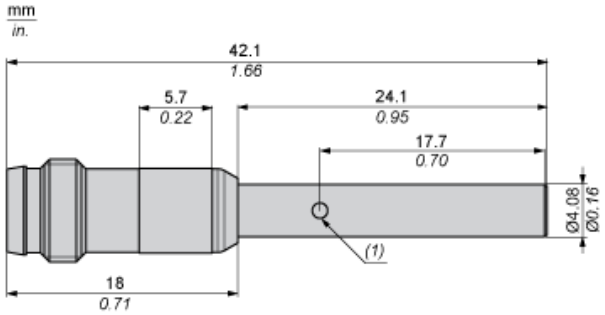
Offer Sustainability

Sustainable offer status	Green Premium product
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
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

Contractual warranty

Warranty	18 months

Dimensions

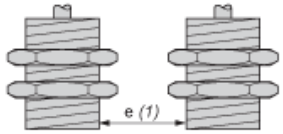


(1) LED

XS1L04PA310S

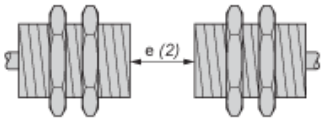
Minimum Mounting Distances in mm

Side by side



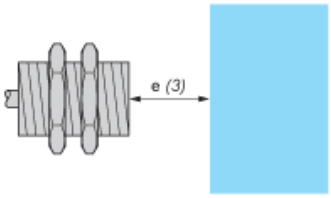
e (1) 2 mm/0.79 in.
≥

Face to face



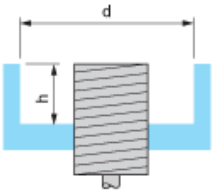
e (2) 12 mm/0.47 in.
≥

Facing a metal object



e (3) 3 mm/0.12 in.
≥

Mounted in a metal support



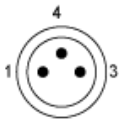
d ≥ 4 mm/0.16 in.
h ≥ 0 mm/0 in.

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

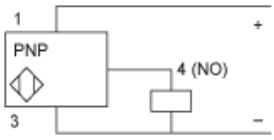
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Wiring Schemes

M8 Connector

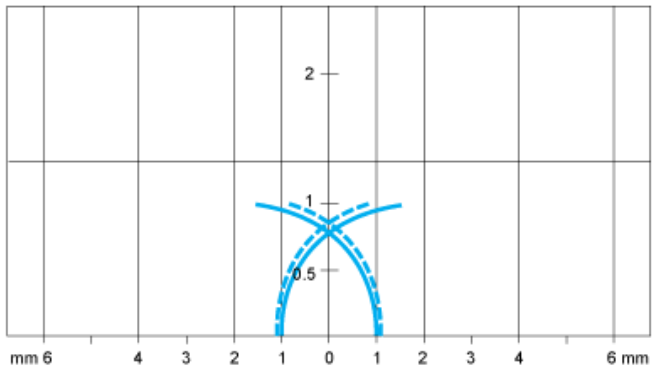


PNP



Performance Curves

Standard Steel Target (mm) : 5x5x1



Pick-up points
Drop-out points (object approaching from the side)
(y) Sensing distance in mm