

# XS1N05PA310L1

Inductive proximity sensors XS, inductive sensor XS1 M5, L28mm, brass, Sn1mm, 5..24VDC, cable 5m



## 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	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	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	Nickel plated brass
Operating zone	0...0.8 mm
Cable composition	3 x 0.11 mm <sup>2</sup>
Wire insulation material	PVC
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[RETURN]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 Height	3.600 cm
Package 1 Width	14.000 cm
Package 1 Length	15.300 cm
Package 1 Weight	64.000 g
Unit Type of Package 2	S01
Number of Units in Package 2	9
Package 2 Height	15 cm
Package 2 Width	15 cm
Package 2 Length	40 cm
Package 2 Weight	755.000 g

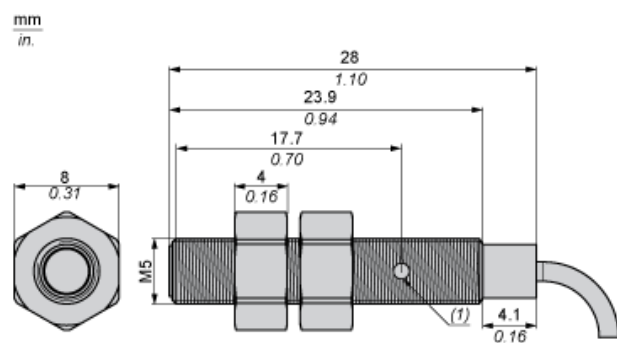
## Offer Sustainability

Sustainable offer status	Green Premium product
Circularity Profile	 <a href="#">End of Life Information</a>
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
For all Reach Rohs enquiries contact us at	<a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>

## Contractual warranty

Warranty	18 months
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## Dimensions



(1) LED

### 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

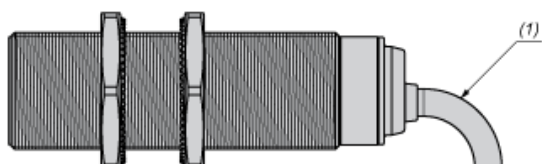


d ≥ 5 mm/0.17 in.

h ≥ 0 mm/0 in.

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

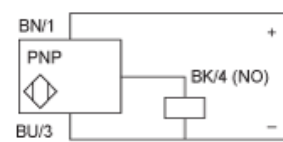
### Mounting



(1) Bending cable: 4 x external cable diameter

## Wiring Schemes

PNP



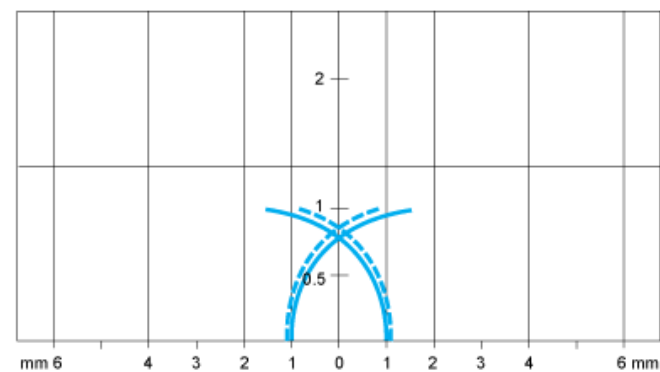
BU : Blue  
BN : Brown  
BK : Black

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Performance Curves

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Standard Steel Target (mm) : 5x5x1



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