## Product data sheet Characteristics

## XS1N05PA310

Inductive proximity sensors XS, inductive sensor XS1 M5, L28mm, brass, Sn1mm, 5..24VDC, cable 2m





#### 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	2 M
[Us] rated supply voltage	524 V DC
Switching capacity in mA	<= 100 mA with overload and short-circuit protection
IP degree of protection	IP67 conforming to IEC 60529

#### Complementary

Frontal
Tona
PPS
Nickel plated brass
00.8 Mm
3 x 0.11 mm²
PvR
Output state: 1 LED (yellow)
530 V DC
<= 5000 Hz
<2 V (closed)

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.

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. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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

#### Environment

Product certifications	CSA
	UL
Ambient air temperature for operation	-2570 °C
Ambient air temperature for storage	-4085 °C
Vibration resistance	25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn for 11 ms conforming to IEC 60068-2-27

### Packing Units

Package 3 Height	4.1 Cm	
Package 2 Length	40 Cm	
Package 2 width	30 Cm	
Package 2 Height	15 Cm	
Package 2 Weight	1.01 Kg	
Number of Units in Package 2	22	
Unit Type of Package 2	S02	
Package 1 Length	13.5 Cm	
Package 1 width	10.3 Cm	
Package 1 Height	2.7 Cm	
Package 1 Weight	30 G	
Number of Units in Package 1	1	
Unit Type of Package 1	PCE	

#### 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

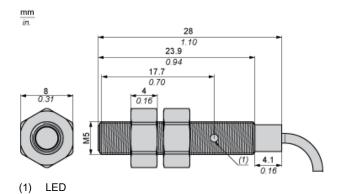
Warranty 18 months
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# Product data sheet Dimensions Drawings

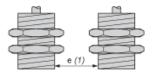
# XS1N05PA310

#### Dimensions



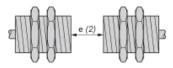
#### Minimum Mounting Distances in mm

#### Side by side

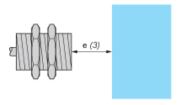


e (1) ≥ mm/0.79 in.

Face to face

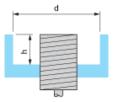


e (2) ≱2 mm/0.47 in. Facing a metal object



e (3) ≱ mm/0.12 in.

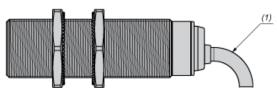
Mounted in a metal support



 $d \ge 5 \text{ mm/0.17 in.}$  $h \ge 0 \text{ mm/0 in.}$ 

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

#### Mounting

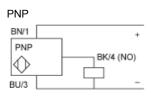


(1) Bending cable: 4 x external cable diameter

## Product data sheet Connections and Schema

## XS1N05PA310

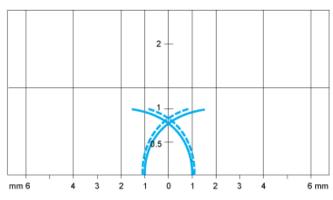
#### Wiring Schemes



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

Product Life Status: Commercialised