

XS1N05PB311S

inductive sensor XS1 M5 - L41mm - stainless -
Sn0.8mm - 5..24VDC - M8



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 | 41 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 NC |
| Output circuit type | DC |
| Discrete output type | PNP |
| Electrical connection | 3 pins M8 male connector |
| [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 |
| Status LED | 1 LED yellow for output state |
| Supply voltage limits | 5...30 V DC |
| Switching frequency | <= 5000 Hz |
| Voltage drop | <= 2 V at closed state |
| Current consumption | 0...10 mA at no-load |
| Delay first up | <= 5 ms |
| Delay response | <= 1 ms |
| Delay recovery | <= 1 ms |
| Marking | CE |
| Threaded length | 24 mm |
| Length | 42 mm |

Environment

| | |
|---------------------------------------|-------------|
| product certifications | CSA UL |
| ambient air temperature for operation | -25...70 °C |
| ambient air temperature for storage | -40...85 °C |

The information provided in this documentation contains general descriptions and/or technical characteristics 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.

| | |
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| 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 |

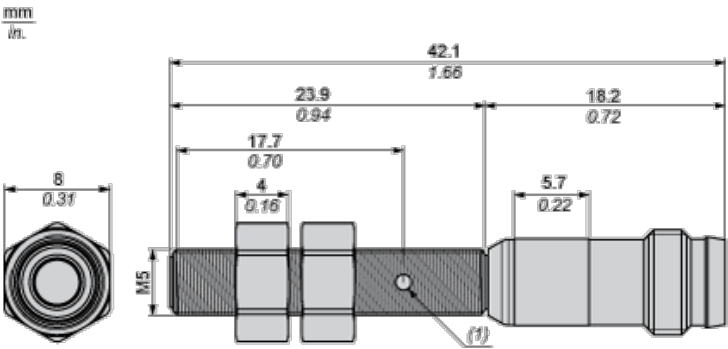
Offer Sustainability

| | |
|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0935 - Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Available |

Contractual warranty

| | |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

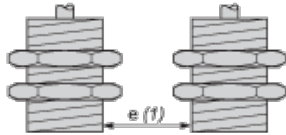
Dimensions



(1) LED

Minimum Mounting Distances in mm

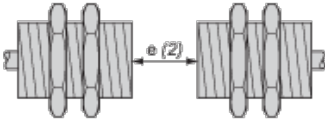
Side by side



e (1) 2 mm/0.79 in.

≥

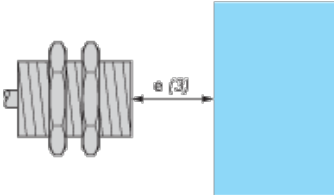
Face to face



e (2) 12 mm/0.47 in.

≥

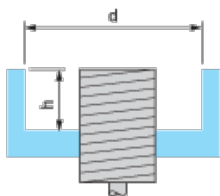
Facing a metal object



e (3) 3 mm/0.12 in.

≥

Mounted in a metal support



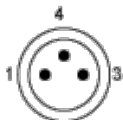
$d \geq 5 \text{ mm}/0.17 \text{ in.}$

$h \geq 0 \text{ mm}/0 \text{ in.}$

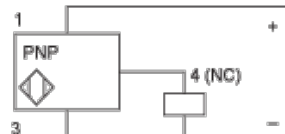
Tightening torque : 2.2 N.m. (values obtained with washers mounted)

Wiring Schemes

M8 Connector

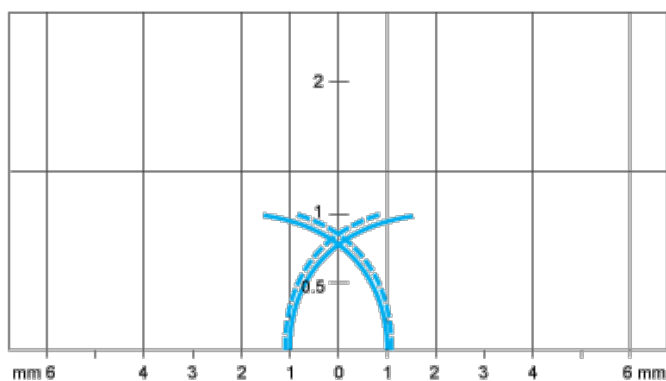


PNP



Performance Curves

Standard Steel Target (mm) : 5x5x1



— Pick-up points

- - - Drop-out points (object approaching from the side)

(y) Sensing distance in mm