

# XS106B3PBL2

inductive sensor XS1 Ø6.5 - L33mm - brass -  
Sn2.5mm - 12..24VDC - cable 2m



## Main

|                                    |                                                              |
|------------------------------------|--------------------------------------------------------------|
| Range of product                   | OsiSense XS                                                  |
| Series name                        | General purpose                                              |
| Sensor type                        | Inductive proximity sensor                                   |
| Sensor name                        | XS1                                                          |
| Sensor design                      | Cylindrical Ø 6.5 mm plain                                   |
| Size                               | 33 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      | 2.5 mm                                                       |
| Discrete output function           | 1 NC                                                         |
| Output circuit type                | DC                                                           |
| Discrete output type               | PNP                                                          |
| Electrical connection              | Cable                                                        |
| Cable length                       | 2 m                                                          |
| [Us] rated supply voltage          | 12...24 V DC with reverse polarity protection                |
| Switching capacity in mA           | <= 200 mA with overload and short-circuit protection         |
| IP degree of protection            | IP65 conforming to IEC 60529<br>IP67 conforming to IEC 60529 |

## Complementary

|                          |                              |
|--------------------------|------------------------------|
| Detection face           | Frontal                      |
| Front material           | PPS                          |
| Enclosure material       | Nickel plated brass          |
| Operating zone           | 0...2 mm                     |
| Differential travel      | 1...15% of Sr                |
| Cable composition        | 3 x 0.11 mm <sup>2</sup>     |
| Wire insulation material | PvR                          |
| Status LED               | Output state: 1 LED (yellow) |
| Supply voltage limits    | 10...36 V DC                 |
| Switching frequency      | <= 2500 Hz                   |
| Maximum voltage drop     | <2 V (closed)                |
| Current consumption      | <= 10 mA no-load             |
| Maximum delay first up   | 10 ms                        |
| Maximum delay response   | 0.2 ms                       |
| Maximum delay recovery   | 0.2 ms                       |
| Marking                  | CE                           |
| Length                   | 33 mm                        |

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.

## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Product certifications                | UL<br>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             | 59 g   |
| Package 1 Height             | 13 cm  |
| Package 1 width              | 4.1 cm |
| Package 1 Length             | 9.4 cm |

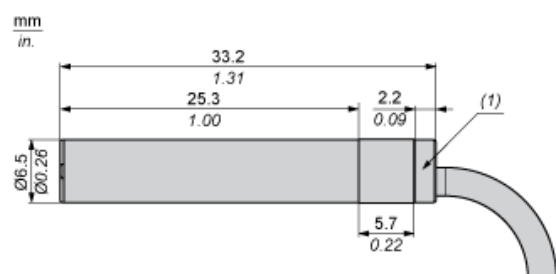
## Offer Sustainability

|                            |                                                                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                              |
| REACH Regulation           | <a href="#"> REACH Declaration</a>                                                                |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#"> EU RoHS Declaration</a> |
| Mercury free               | Yes                                                                                                                                                                                |
| RoHS exemption information | <a href="#"> Yes</a>                                                                             |
| Environmental Disclosure   | <a href="#"> Product Environmental Profile</a>                                                  |
| Circularity Profile        | <a href="#"> End of Life Information</a>                                                        |

## Contractual warranty

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

## Dimensions

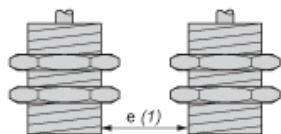


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Minimum Mounting Distances in mm

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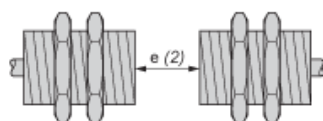
Side by side



e (1) 5 mm/0.20 in.

≥

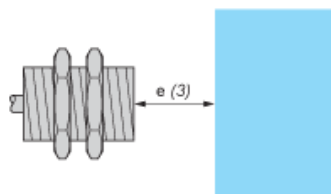
Face to face



e (2) 30 mm/1.18 in.

≥

Facing a metal object



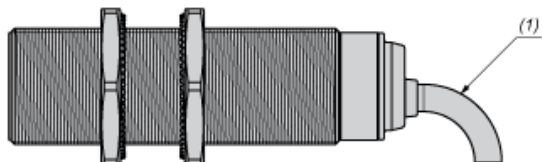
e (3) 8 mm/0.31 in.

≥

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Mounting

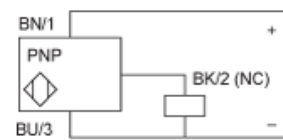
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(1) Bending cable: 4 x external cable diameter

## Wiring Schemes

PNP



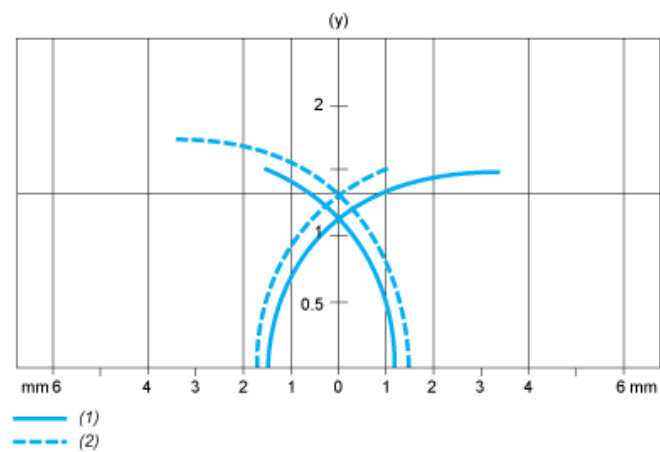
BU : Blue  
BN : Brown  
BK : Black

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Performance Curves

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Standard Steel Target : 8x8x1 mm



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