

# Product data sheet

## Characteristics

# XS106B3PBL5

inductive sensor XS1 Ø6.5 - L33mm - brass - Sn2mm - 12..24VDC - cable 5m



## Main

|                                    |                                                              |
|------------------------------------|--------------------------------------------------------------|
| Range of product                   | Telemecanique Inductive proximity sensors 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                       | 5 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       | Stainless steel 303          |
| Operating zone           | 0...2 mm                     |
| Differential travel      | 1...15% of Sr                |
| Cable composition        | 3 x 0.11 mm <sup>2</sup>     |
| Wire insulation material | PVC                          |
| 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                        |

## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Product certifications                | CSA[RETURN]UL                                                           |
| 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             | 13 cm  |
| Package 1 Width              | 4.1 cm |
| Package 1 Length             | 9.4 cm |
| Package 1 Weight             | 94 g   |

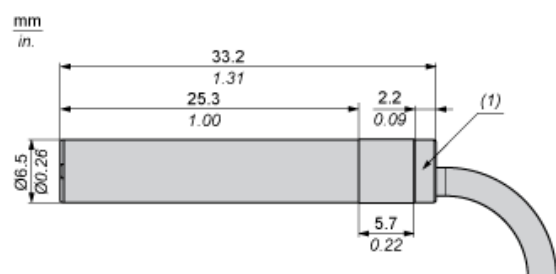
## Offer Sustainability

|                            |                                                                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                              |
| 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 |  Yes                                                                                              |

## Contractual warranty

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

## Dimensions



### Minimum Mounting Distances in mm

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.

≥

### 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 : 8x8x1 mm



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