

# Product data sheet

## Characteristics

# XS606B1DBL2

inductive sensor XS6 Ø6.5 - L51mm - stainless  
- Sn2.5mm - 12..48VDC - cable 2m



## Main

|                                    |                                                         |
|------------------------------------|---------------------------------------------------------|
| Range of product                   | Telemecanique Inductive proximity sensors XS            |
| Series name                        | General purpose                                         |
| Sensor type                        | Inductive proximity sensor                              |
| Sensor name                        | XS6                                                     |
| Sensor design                      | Cylindrical Ø 6.5 mm plain                              |
| Size                               | 51 mm                                                   |
| Body type                          | Fixed                                                   |
| Detector flush mounting acceptance | Flush mountable                                         |
| Material                           | Stainless steel                                         |
| Type of output signal              | Discrete                                                |
| Wiring technique                   | 2-wire                                                  |
| [Sn] nominal sensing distance      | 2.5 mm                                                  |
| Discrete output function           | 1 NC                                                    |
| Output circuit type                | DC                                                      |
| Electrical connection              | Cable                                                   |
| Cable length                       | 2 m                                                     |
| [Us] rated supply voltage          | 12...48 V DC with reverse polarity protection           |
| Switching capacity in mA           | <= 100 mA DC with overload and short-circuit protection |
| IP degree of protection            | IP67 conforming to IEC 60529                            |

## Complementary

|                          |                              |
|--------------------------|------------------------------|
| Detection face           | Frontal                      |
| Front material           | PPS                          |
| Enclosure material       | Stainless steel 303          |
| Sensing range            | > 0...2.5 mm                 |
| Operating zone           | 0...2 mm                     |
| Differential travel      | 1...15% of Sr                |
| Cable composition        | 2 x 0.11 mm <sup>2</sup>     |
| Wire insulation material | PVC                          |
| Status LED               | Output state: 1 LED (yellow) |
| Supply voltage limits    | 10...58 V DC                 |
| Switching frequency      | <= 3000 Hz DC                |
| Maximum voltage drop     | <4 V (closed)                |
| Maximum delay first up   | 10 ms                        |
| Maximum delay response   | 0.3 ms                       |
| Maximum delay recovery   | 0.3 ms                       |
| Marking                  | CE                           |
| Threaded length          | 42 mm                        |
| Length                   | 51 mm                        |

## 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             | 13 cm  |
| Package 1 Width              | 4.1 cm |
| Package 1 Length             | 9.4 cm |
| Package 1 Weight             | 25 g   |

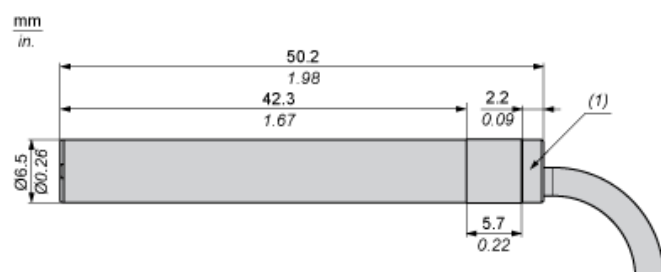
## Offer Sustainability

|                            |                                                                                                                           |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------|
| 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)                                                                |
| Mercury free               | Yes                                                                                                                       |
| RoHS exemption information |  <a href="#">Yes</a>                     |
| Circularity Profile        |  <a href="#">End Of Life Information</a> |

## Contractual warranty

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

## Dimensions

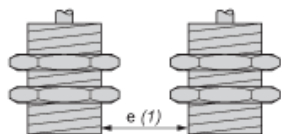


---

Minimum Mounting Distances in mm

---

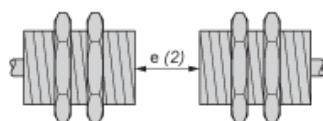
Side by side



e (1) 5 mm/0.20 in.

≥

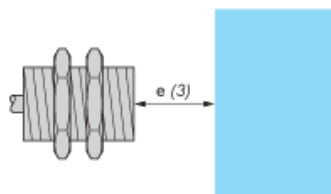
Face to face



e (2) 30 mm/1.18 in.

≥

Facing a metal object



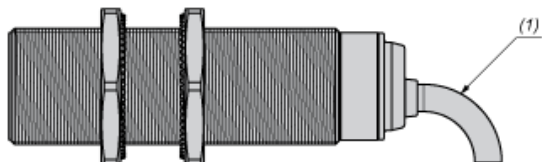
e (3) 8 mm/0.31 in.

≥

---

Mounting

---

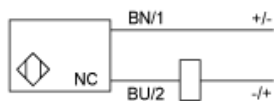


(1) Bending cable: 4 x external cable diameter

## Wiring Schemes

### 2-Wire Non-polarised

NC output



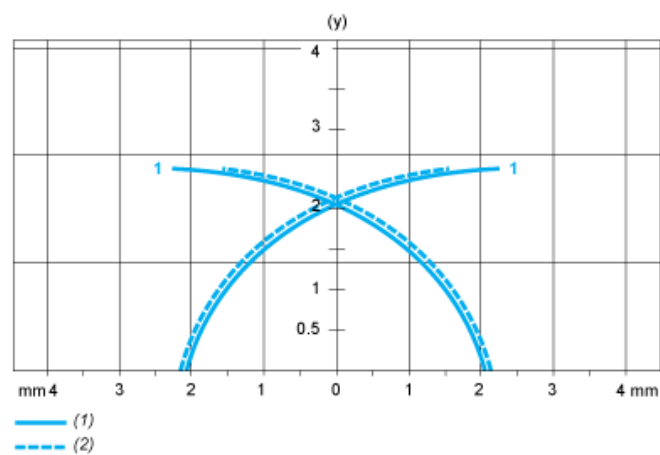
BU : Blue  
BN : Brown

---

Performance Curves

---

Standard Steel Target (mm) : 8x8x1



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