

# XS506B1NBL2

Inductive proximity sensors XS, inductive sensor XS5 Ø 6.5, L33mm, stainless, Sn1.5 mm, 12...24 VDC, cable 2 m



## Main

|                                    |   |
|------------------------------------|---|
| Range of product                   | Telemecanique Inductive proximity sensors XS            |
| Series name                        | General purpose   |
| Sensor type                        | Inductive proximity sensor                              |
| Device application                 | -   |
| Sensor name                        | XS5   |
| Sensor design                      | Cylindrical Ø 6.5 mm plain                              |
| Size                               | 33 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      | 1.5 mm  |
| Discrete output function           | 1 NC  |
| Output circuit type                | DC  |
| Discrete output type               | NPN   |
| 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 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          |
| Operating zone           | 0...1.2 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      | <= 5000 Hz                   |
| Maximum voltage drop     | <2 V (closed)                |
| Current consumption      | <= 10 mA no-load             |
| Maximum delay first up   | 10 ms                        |
| Maximum delay response   | 0.1 ms                       |
| Maximum delay recovery   | 0.1 ms                       |
| Marking                  | CE                           |
| Length                   | 33 mm                        |
| Net weight               | 0.035 kg                     |




## 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             | 25 g   |

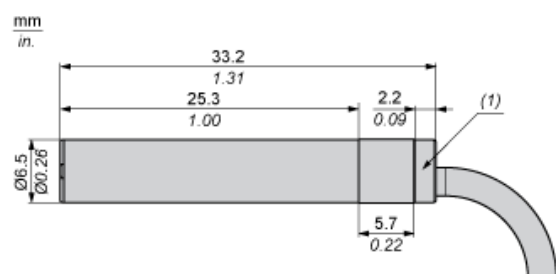
## Offer Sustainability

|                            |   |
|----------------------------|---|
| 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>   |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

## Contractual warranty

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

## Dimensions



## Minimum Mounting Distances

Side by side



e (1) 3 mm/0.12 in.

≥

Face to face



e (2) 18 mm/0.71 in.

≥

Facing a metal object



e (3) 4.5 mm/0.18 in.

≥

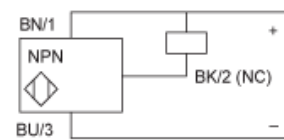
## Mounting



(1) Bending cable: 4 x external cable diameter

## Wiring Schemes

NPN



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