

# XS506B1PAL2

Inductive proximity sensors XS, inductive sensor XS5  $\tilde{A} \sim 6.5$ , 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 NO                                                        |
| 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           | $\leq 200$ 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      | $\leq 5000$ Hz               |
| Maximum voltage drop     | $< 2$ V (closed)             |
| Current consumption      | $\leq 10$ 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                | 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             | 1.500 cm  |
| Package 1 Width              | 10.000 cm |
| Package 1 Length             | 13.200 cm |
| Package 1 Weight             | 29.000 g  |
| Unit Type of Package 2       | S02       |
| Number of Units in Package 2 | 22        |
| Package 2 Height             | 15 cm     |
| Package 2 Width              | 30 cm     |
| Package 2 Length             | 40 cm     |
| Package 2 Weight             | 962.000 g |

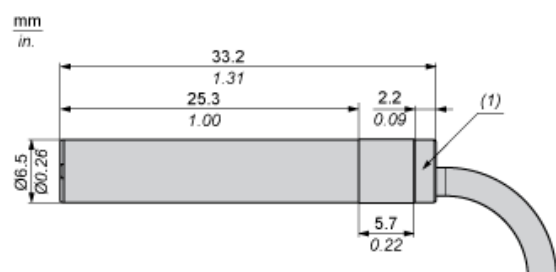
## Offer Sustainability

|                                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status                   | Green Premium product                                                                                                                                                                                                                                                                                                                                                             |
| 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> |
| For all Reach Rohs enquiries contact us at | <a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</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

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