

# Product data sheet

Specifications



Inductive proximity sensors XS, inductive sensor XS6 M18, L64mm, brass, Sn12mm, 12..48VDC, cable 2m

XS618B4PAL2

## Main

|                                    |   |
|------------------------------------|---|
| Range of product                   | Telemecanique Inductive proximity sensors XS                                    |
| Series name                        | General purpose   |
| Sensor type                        | Inductive proximity sensor  |
| Device application                 | Mobile equipment  |
| Sensor name                        | XS6   |
| Sensor design                      | Cylindrical M18   |
| Size                               | 64 mm   |
| Body type                          | Fixed   |
| Detector flush mounting acceptance | Non flush mountable   |
| Material                           | Metal   |
| Type of output signal              | Discrete  |
| Wiring technique                   | 3-wire  |
| [Sn] nominal sensing distance      | 12 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...48 V DC with reverse polarity protection                                   |
| Switching capacity in mA           | <= 200 mA DC with overload and short-circuit protection                         |
| IP degree of protection            | IP68 double insulation conforming to IEC 60529<br>IP69K conforming to DIN 40050 |

## Complementary

|                    |                     |
|--------------------|---------------------|
| Thread type        | M18 x 1             |
| Detection face     | Frontal             |
| Front material     | PPS                 |
| Enclosure material | Nickel plated brass |
| Sensing range      | > 8...15 mm         |

|                          |                              |
|--------------------------|------------------------------|
| Operating zone           | 0...9.6 mm                   |
| Differential travel      | 1...15% of Sr                |
| Cable composition        | 3 x 0.34 mm²                 |
| Wire insulation material | PvR                          |
| Status LED               | Output state: 1 LED (yellow) |
| Supply voltage limits    | 10...58 V DC                 |
| Switching frequency      | <= 1000 Hz DC                |
| Maximum voltage drop     | <2 V (closed)                |
| Current consumption      | <= 10 mA no-load             |
| Maximum delay first up   | 10 ms                        |
| Maximum delay response   | 0.3 ms                       |
| Maximum delay recovery   | 0.7 ms                       |
| Marking                  | CE                           |
| Threaded length          | 44 mm                        |
| Length                   | 64 mm                        |
| Net weight               | 0.1 kg                       |

## Environment

|                                       |   |
|---------------------------------------|---|
| Product certifications                | E2<br>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       | Db      |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 4.0 cm  |
| Package 1 Width              | 9.5 cm  |
| Package 1 Length             | 13.2 cm |
| Package 1 Weight             | 108.0 g |
| Unit Type of Package 2       | Doboz   |
| Number of Units in Package 2 | 44      |
| Package 2 Height             | 30.0 cm |
| Package 2 Width              | 30.0 cm |
| Package 2 Length             | 40.0 cm |
| Package 2 Weight             | 5.24 kg |

## Offer Sustainability

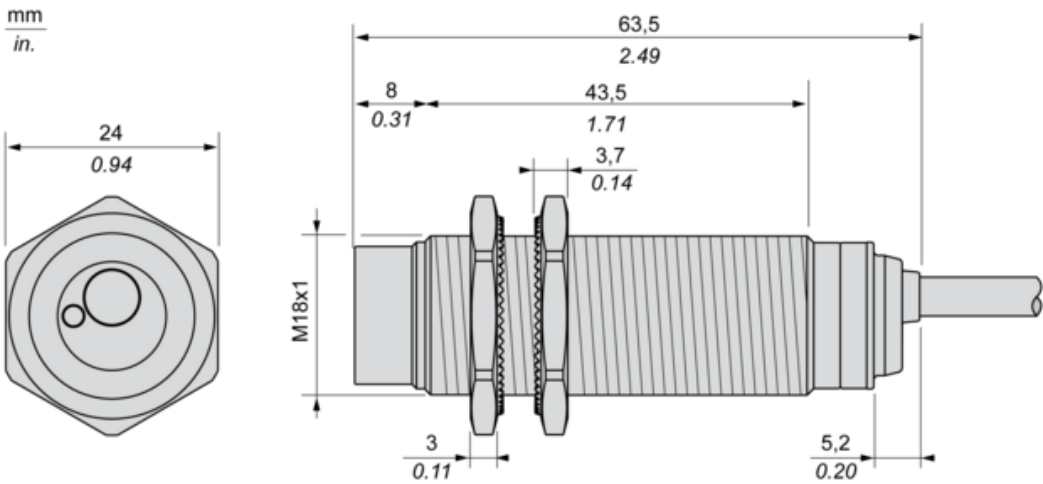
|                          |  |
|--------------------------|--|
| Sustainable offer status | Green Premium product                                      |
| REACH Regulation         | <a href="#">REACH Declaration</a>                          |
| EU RoHS Directive        | Pro-active compliance (Product 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>   |
| 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



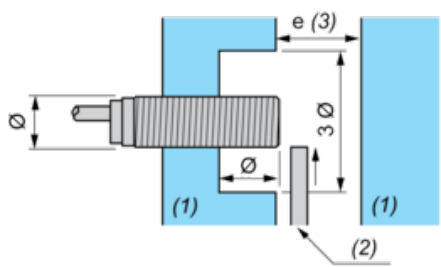
$e(1) \geq 72\text{ mm}/2.83\text{ in.}$

Face to face



$e(2) \geq 144\text{ mm}/5.67\text{ in.}$

Facing a metal object



$e(3) \geq 36\text{ mm}/1.42\text{ in}$

(1) Metal

(2) Object to be detected

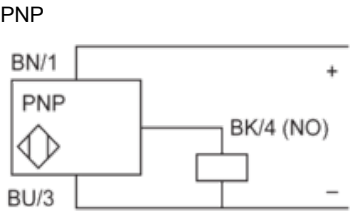
Mounting

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(1) Bending cable: 4 x external cable diameter

Wiring Schemes



**BU** : Blue  
**BN** : Brown  
**BK** : Black

Recommended replacement(s)