

# XS612B2PAL01M12

inductive sensor XS6 M12 - L55mm - brass -  
Sn5mm - 12..24VDC - M12 0.15m



## Main

|                                    |                                                                                 |
|------------------------------------|---------------------------------------------------------------------------------|
| Range of product                   | Telemecanique Inductive proximity sensors XS                                    |
| Series name                        | Application                                                                     |
| Sensor type                        | Inductive proximity sensor                                                      |
| Type of sensing window             | Adjustable                                                                      |
| Sensor name                        | XS6                                                                             |
| Sensor design                      | Cylindrical M12                                                                 |
| Size                               | 55 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      | 5 Mm non flush mountable<br>3.4 mm flush mountable                              |
| Discrete output function           | 1 NO                                                                            |
| Output circuit type                | DC                                                                              |
| Discrete output type               | PNP                                                                             |
| Electrical connection              | Remote male connector M12, 4 pins                                               |
| Cable length                       | 0.15 m                                                                          |
| [Us] rated supply voltage          | 12...24 V DC with reverse polarity protection                                   |
| Switching capacity in mA           | <= 100 mA with overload and short-circuit protection                            |
| IP degree of protection            | IP67 double insulation conforming to IEC 60529<br>IP69K conforming to DIN 40050 |

## Complementary

|                          |                                                                         |
|--------------------------|-------------------------------------------------------------------------|
| Thread type              | M12 x 1                                                                 |
| Detection face           | Frontal                                                                 |
| Front material           | PPS                                                                     |
| Enclosure material       | Nickel plated brass                                                     |
| Sensing range            | > 4...8 mm                                                              |
| Fine adjustment zone     | 1.7...3.4 Mm flush mountable<br>1.7...5 mm non flush mountable          |
| Differential travel      | 1...15% of Sr                                                           |
| Cable composition        | 3 x 0.34 mm <sup>2</sup>                                                |
| Wire insulation material | PvR                                                                     |
| Status LED               | Supply on and teach mode: 1 LED (green)<br>Output state: 1 LED (yellow) |
| Supply voltage limits    | 10...36 V DC                                                            |
| Switching frequency      | <= 1000 Hz                                                              |
| 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 | 42 mm  |
| Length          | 59 mm  |
| Net weight      | 0.1 kg |

## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Product certifications                | 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       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Weight             | 56 g     |
| Package 1 Height             | 2.6 cm   |
| Package 1 width              | 14.1 cm  |
| Package 1 Length             | 12.5 cm  |
| Unit Type of Package 2       | BAG      |
| Number of Units in Package 2 | 1        |
| Package 2 Weight             | 75 g     |
| Package 2 Height             | 1.5 cm   |
| Package 2 width              | 20 cm    |
| Package 2 Length             | 15 cm    |
| Unit Type of Package 3       | S02      |
| Number of Units in Package 3 | 22       |
| Package 3 Weight             | 1.488 kg |
| Package 3 Height             | 15 cm    |
| Package 3 width              | 30 cm    |
| Package 3 Length             | 40 cm    |

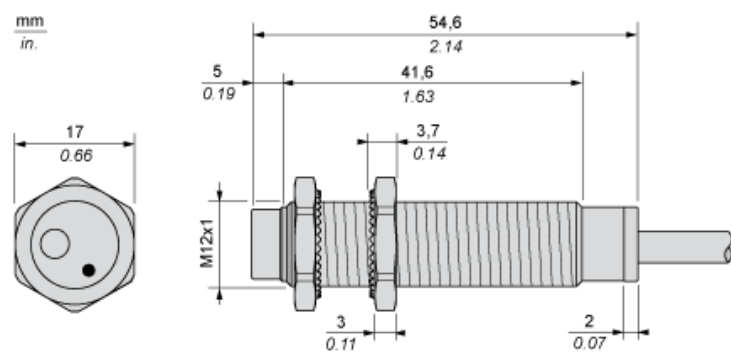
## Offer Sustainability

|                            |                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------|
| 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>                                                        |

## Contractual warranty

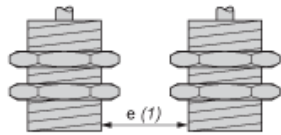
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

## Dimensions



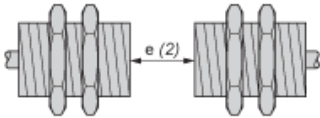
Minimum Mounting Distances in mm

Side by side



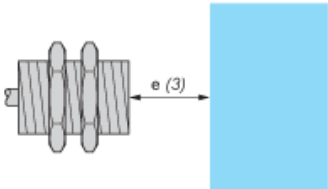
| e (1)         |        |                   |      |
|---------------|--------|-------------------|------|
| Flush mounted |        | Not flush mounted |      |
| mm            | in.    | mm                | in.  |
| ≥ 14          | ≥ 0.55 | 50                | 1.97 |

Face to face



| e (2)         |        |                   |      |
|---------------|--------|-------------------|------|
| Flush mounted |        | Not flush mounted |      |
| mm            | in.    | mm                | in.  |
| ≥ 50          | ≥ 1.97 | 100               | 3.94 |

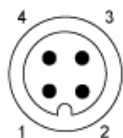
Facing a metal object



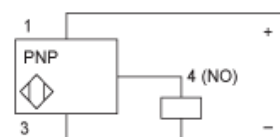
| e (3) |        |
|-------|--------|
| mm    | in.    |
| ≥ 3.4 | ≥ 0.13 |

## Wiring Schemes

M12 connector



PNP



- 1 : (+)
- 2 : Not connected
- 3 : (-)
- 4 : NO Output