

# Product data sheet

## Characteristics

# XS612B1MBL2

Inductive proximity sensors XS, inductive sensor XS6 M12, L54mm, brass, Sn4mm, 24...240VAC/DC, cable 2 m



### Main

|                                    |   |
|------------------------------------|---|
| Range of product                   | Telemecanique Inductive proximity sensors XS                                    |
| Series name                        | General purpose   |
| Sensor type                        | Inductive proximity sensor  |
| Sensor name                        | XS6   |
| Sensor design                      | Cylindrical M12   |
| Size                               | 54 mm   |
| Body type                          | Fixed   |
| Detector flush mounting acceptance | Flush mountable   |
| Material                           | Metal   |
| Type of output signal              | Discrete  |
| Wiring technique                   | 2-wire  |
| [Sn] nominal sensing distance      | 4 Mm  |
| Discrete output function           | 1 NC  |
| Output circuit type                | AC/DC   |
| Electrical connection              | Cable   |
| Cable length                       | 2 M   |
| [Us] rated supply voltage          | 24...240 V AC/DC 50/60 Hz   |
| Switching capacity in mA           | 5...200 mA AC/DC  |
| IP degree of protection            | IP68 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            | > 2.5...4 mm                 |
| Operating zone           | 0...3.2 Mm                   |
| Differential travel      | 1...15% of Sr                |
| Cable composition        | 2 x 0,34 mm <sup>2</sup>     |
| Wire insulation material | PvR                          |
| Status LED               | Output state: 1 LED (yellow) |
| Supply voltage limits    | 20...264 V AC/DC             |

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|                        |                              |
|------------------------|------------------------------|
| Switching frequency    | <= 1000 Hz DC<br><= 25 Hz AC |
| Maximum voltage drop   | <5.5 V (closed)              |
| Maximum delay first up | 20 Ms                        |
| Maximum delay response | 0.5 Ms                       |
| Maximum delay recovery | 0.2 Ms                       |
| Marking                | CE                           |
| Threaded length        | 42 Mm                        |
| Length                 | 54 Mm                        |
| Net weight             | 0.075 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             | 93.0 G  |
| Package 1 Height             | 4.2 Cm  |
| Package 1 width              | 13.2 Cm |
| Package 1 Length             | 9.7 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 |
|----------|-----------|

Product Life Status : **Commercialised**