

Inductive proximity sensors XS for hazardous area dust, M30, Sn15mm, 12...48 VDC, NO, cable 2 m



Main

|                                    |  |
|------------------------------------|--|
| Range of product                   | Telemecanique Inductive proximity sensors XS         |
| Series name                        | Application  |
| Sensor type                        | Inductive proximity sensor                           |
| Device application                 | ATEX dust  |
| Sensor name                        | XS6  |
| Sensor design                      | Cylindrical M30                                      |
| Size                               | 30 mm  |
| Body type                          | Fixed  |
| Detector flush mounting acceptance | Flush mountable                                      |
| Material                           | Metal  |
| Enclosure material                 | Nickel plated brass                                  |
| [Sn] nominal sensing distance      | 15 mm  |
| Type of output signal              | Discrete   |
| Wiring technique                   | 3-wire   |
| 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 with overload and short-circuit protection |
| IP degree of protection            | IP68 conforming to IEC 60529<br>IP69K                |

Complementary

|                          |                                |
|--------------------------|--------------------------------|
| Thread type              | M30 x 1.5                      |
| Detection face           | Frontal                        |
| Front material           | PPS                            |
| Sensing range            | > 8...15 mm                    |
| Operating zone           | 0...12 mm                      |
| Differential travel      | 1...15% of Sr                  |
| Cable composition        | 3 x 0.34 mm <sup>2</sup>       |
| Wire insulation material | PvR                            |
| Status LED               | Output state: 1 LED (yellow)   |
| Supply voltage limits    | 10...58 V DC                   |
| Switching frequency      | <= 500 Hz                      |
| Maximum voltage drop     | <2 V (closed state)            |
| Current consumption      | <= 10 mA no-load               |
| Maximum delay first up   | 10 ms                          |
| Maximum delay response   | 0.6 ms                         |
| Maximum delay recovery   | 1.4 ms                         |
| Marking                  | II2 D-Ex tb IIIC T90°C Db IP68 |
| Threaded length          | 52 mm                          |
| Length                   | 62 mm                          |

## Environment

|                                       |   |
|---------------------------------------|---|
| Environmental characteristic          | Hazardous location  |
| Standards                             | EN/IEC 60079-31<br>EN/IEC 60079-0                                       |
| Directives                            | 2014/34/EU - ATEX directive   |
| Product certifications                | INERIS 04ATEX0022[RETURN]IEC-Ex INE 17.0006                             |
| Ambient air temperature for operation | -20...60 °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                            |
| Dust zone                             | Zone 21 - 22  |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 13.2 cm |
| Package 1 Width              | 6.7 cm  |
| Package 1 Length             | 9.6 cm  |
| Package 1 Weight             | 245.0 g |

## Offer Sustainability

|  |   |
|--|---|
| Sustainable offer status                   | Green Premium product   |
| Circularity Profile                        |  End of Life Information   |
| California proposition 65                  | WARNING: This product can expose you to chemicals including: Diisobutyl 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 |
|----------|-----------|