

XS618B1PAL10EX

Inductive proximity sensors XS for hazardous area dust, M18, Sn8mm, 12...48 VDC, NO, cable 10 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 M18 |
| Size | 18 mm |
| Body type | Fixed |
| Detector flush mounting acceptance | Flush mountable |
| Material | Metal |
| Enclosure material | Nickel plated brass |
| [Sn] nominal sensing distance | 8 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 | 10 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 IP69K |

Complementary

| | |
|--------------------------|--------------------------------|
| Thread type | M18 x 1 |
| Detection face | Frontal |
| Front material | PPS |
| Sensing range | > 4...8 mm |
| Operating zone | 0...6.4 mm |
| Differential travel | 1...15% of Sr |
| Cable composition | 3 x 0.34 mm ² |
| Wire insulation material | PVC |
| Status LED | Output state: 1 LED (yellow) |
| Supply voltage limits | 10...58 V DC |
| Switching frequency | <= 1000 Hz |
| Maximum voltage drop | <2 V (closed state) |
| 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 | II2 D-Ex tb IIIC T90°C Db IP68 |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

| | |
|-----------------|-------|
| Threaded length | 51 mm |
| Length | 61 mm |

Environment

| | |
|---------------------------------------|---|
| Environmental characteristic | Hazardous location |
| Standards | EN/IEC 60079-31 EN/IEC 60079-0 |
| Directives | 2014/34/EU - ATEX directive |
| Product certifications | IEC-Ex INE 17.0006 INERIS 04ATEX0022 |
| 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 | 6.000 cm |
| Package 1 Width | 15.000 cm |
| Package 1 Length | 15.000 cm |
| Package 1 Weight | 340.000 g |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 10 |
| Package 2 Height | 15.000 cm |
| Package 2 Width | 30.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 3.951 kg |

Offer Sustainability

| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |
| 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 www.P65Warnings.ca.gov |

Contractual warranty

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

Dimensions



Minimum Mounting Distances

Side by side



$e (1) \geq 16 \text{ mm}/0.63 \text{ in.}$

Face to face



$e (2) \geq 100 \text{ mm}/3.94 \text{ in.}$

Facing a metal object



$e (3) \geq 25 \text{ mm}/0.98 \text{ in}$

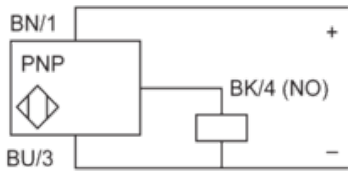
Mounting



(1) Bending cable: 4 x external cable diameter

Wiring Schemes

PNP



BU : Blue
BN : Brown
BK : Black