

Product data sheet

Characteristics

XS612B1PBL10EX

Inductive proximity sensors XS ATEX D,
inductive sensor hazardous area, M12,
Sn4mm, 12...48 VDC, NC, 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 M12 |
| Size | 12 mm |
| Body type | Fixed |
| Detector flush mounting acceptance | Flush mountable |
| Material | Metal |
| Enclosure material | Nickel plated brass |
| [Sn] nominal sensing distance | 4 Mm |
| Type of output signal | Discrete |
| Wiring technique | 3-wire |
| Discrete output function | 1 NC |
| 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

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|--------------------------|--------------------------|
| Thread type | M12 x 1 |
| Detection face | Frontal |
| Front material | PPS |
| Sensing range | > 2.5...4 mm |
| Operating zone | 0...3.2 Mm |
| Differential travel | 1...15% of Sr |
| Cable composition | 3 x 0.34 mm ² |
| Wire insulation material | PvR |

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|------------------------|--------------------------------|
| Supply voltage limits | 10...58 V DC |
| Switching frequency | <= 2500 Hz |
| Maximum voltage drop | <2 V (closed state) |
| Current consumption | <= 10 mA no-load |
| Maximum delay first up | 10 Ms |
| Maximum delay response | 0.2 Ms |
| Maximum delay recovery | 0.2 Ms |
| Marking | II2 D-Ex tb IIIC T90°C Db IP68 |
| Threaded length | 42 Mm |
| Length | 53 Mm |






Environment

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|---------------------------------------|---|
| Environmental characteristic | Hazardous location |
| Standards | EN/IEC 60079-31 EN/IEC 60079-0 |
| Directives | 2014/34/EU - ATEX directive |
| Product certifications | INERIS 04ATEX0022X 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

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|------------------------------|----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Weight | 312.0 G |
| Package 1 Height | 6 Cm |
| Package 1 width | 8 Cm |
| Package 1 Length | 15 Cm |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 10 |
| Package 2 Weight | 3.455 Kg |
| Package 2 Height | 15 Cm |
| Package 2 width | 30 Cm |
| Package 2 Length | 40 Cm |

Offer Sustainability

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|----------------------------|--|
| 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 |

Contractual warranty

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| Warranty | 18 months |
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Product Life Status : **Commercialised**