

Product data sheet

Specifications



Photoelectric sensors XU, fiber optic amplifier, NO/NC programmable, M8 connector

XUDA2PSMM8

Main

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| Range of product | Telemecanique Photoelectric sensors XU |
| Series name | Application assembly |
| Specific application of photoelectric detector | Object |
| Sensor name | XUD |

Complementary

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|---------------------------|---|
| Electronic sensor type | Photo-electric sensor |
| Sensor design | Fiber design |
| Enclosure material | PBT |
| Wiring technique | 3-wire |
| Supply circuit type | DC |
| Type of output signal | Discrete |
| Output type | Solid state |
| Discrete output function | 1 NO or 1 NC programmable |
| Discrete output type | PNP |
| Electrical connection | 1 male connector M8, 4 pins |
| Cable material | PVC |
| Status LED | Stability: 1 LED (green) Output state: 1 LED (yellow) |
| [Us] rated supply voltage | 12...24 V DC with reverse polarity protection |
| Supply voltage limits | 10.8...26.4 V DC |
| Current consumption | <= 50 mA no-load |
| Switching capacity in mA | <= 100 mA (overload protection) <= 100 mA (short-circuit protection) |
| Maximum voltage drop | <2 V (closed) |
| Time delay range | 0...40 s |
| Switching frequency | <= 1 kHz <= 5 kHz |
| Add on output | With alarm output, 50 mA with overload protection With alarm output, 50 mA with short-circuit protection |
| Maximum delay first up | 120 ms |

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| Maximum delay response | 0.1 ms |
| Maximum delay recovery | 0.1 ms |
| Product compatibility | Glass or plastic fibre optics 1 mm or 2.2 mm |
| Setting-up | Sensitivity adjustment with teach mode |
| Display type | 4-digit |
| Lens material | PMMA |
| Depth | 10 mm |
| Height | 65 mm |
| Width | 40 mm |
| Net weight | 0.04 kg |

Environment

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|--|---|
| Emission | Red |
| Interference protection | With |
| Product certifications | cULus CE |
| IP degree of protection | IP64 optic fiber Ø 1 mm conforming to IEC 529 IP65 optic fiber Ø 2 mm conforming to IEC 529 |
| Ambient air temperature for operation | -10...55 °C |
| Ambient air temperature for storage | -30...70 °C |
| Vibration resistance | +/-0.5 mm (f= 10...55 Hz) conforming to IEC 60068-2-6 7 gn (f= 10...55 Hz) conforming to IEC 60068-2-6 |
| Shock resistance | 30 gn (duration = 11 ms) conforming to IEC 60068-2-27 |

Packing Units

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|-------------------------------------|-----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 3.700 cm |
| Package 1 Width | 8.200 cm |
| Package 1 Length | 8.100 cm |
| Package 1 Weight | 41.000 g |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 45 |
| Package 2 Height | 15.000 cm |
| Package 2 Width | 30.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 2.220 kg |

Offer Sustainability

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|-------------------------------|---|
| REACH Regulation | REACH Declaration |
| REACH free of SVHC | Yes |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |

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|-----------------------------------|--|
| RoHS exemption information | Yes |
| California proposition 65 | <p>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 www.P65Warnings.ca.gov</p> |

Contractual warranty

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|-----------------|-----------|
| Warranty | 18 months |
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Recommended replacement(s)