



Main

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|------------------------------|---|
| Range of product | Telemecanique Ultrasonic sensors XX |
| Sensor type | Ultrasonic sensor |
| Sensor name | XX9 |
| Material | PBT (polybutylene terephthalate) |
| Sensor design | Ø 30 mm |
| Product specific application | For 2 levels monitoring |
| Type of output signal | Dual-level - dual setpoint |
| Wiring technique | 4-wire |
| [Us] rated supply voltage | 12...24 V DC with reverse polarity protection |
| Discrete output function | 1 NO |
| Discrete output type | NPN |
| Electrical connection | 1 male connector M12 4 pins |
| [Sd] sensing range | 0.203...8 m |
| Beam angle | 10 ° |
| IP degree of protection | IP67 conforming to IEC 60529 |

Complementary

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|---|---|
| Enclosure material | ULTEM |
| Front material | Glass epoxy |
| ISO thread | M30 x 1.5 |
| Supply voltage limits | 10...28 V DC |
| [Sn] nominal sensing distance | 8 m |
| Type of sensing window | Adjustable |
| [Sa] assured operating distance | 0.203...8 m (teach mode) |
| Maximum differential travel | 2.5 mm |
| Blind zone | 51 mm |
| Transmission frequency | 75 kHz |
| Repeat accuracy | 0.254 % |
| Deviation angle from 90° of object to be detected | -10...10 ° |
| Minimum size of detected object | Cylinder diameter 50.8 mm - up to 4732 mm sensing distance |
| Status LED | Output state: 2 LEDs (green/red (flashing)) Setting-up assistance: 2 LEDs (green/red (flashing)) Distance indication: 2 LEDs (yellow) |
| Current consumption | 100 mA |
| Maximum switching current | 100 mA with overload and short-circuit protection |
| Maximum voltage drop | <1 V |
| Maximum delay first up | 75 ms |
| Maximum delay response | 1 s |
| Maximum delay recovery | 1000 ms |
| Marking | CE |
| Height | 30 mm |
| Width | 30 mm |
| Depth | 30 mm |
| Length | 117.35 mm |
| CAD overall height | 117.35 mm |
| CAD overall width | 43.18 mm |

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| CAD overall depth | 43.18 mm |
| Net weight | 0.11 kg |

Environment

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| Standards | IEC 60947-5-2 |
| Product certifications | UL |
| NEMA degree of protection | NEMA 4X (indoor use only) |
| Ambient air temperature for operation | -20...60 °C |
| Ambient air temperature for storage | -10...80 °C |
| Vibration resistance | +/-1 mm conforming to IEC 60068-2-6 (f = 10...55 Hz) |
| Shock resistance | 30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27 |
| Resistance to electrostatic discharge | 8 kV level 4 conforming to IEC 61000-4-2 |
| Resistance to electromagnetic fields | 10 V/m level 3 conforming to IEC 61000-4-3 |
| Resistance to fast transients | 1 kV level 3 conforming to IEC 61000-4-4 |

Packing Units

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| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |

Contractual warranty

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| Warranty | 18 months |
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