

Product data sheet

Specifications



ultrasonic sensor cylindrical M18 - 2 levels - Sn 8 m - 2 NO - M12 connector

XX2V1A1PKM12J14

! Discontinued on: 08 December 2020

! Discontinued

Main

| | |
|-------------------------------|---|
| Range of product | Telemecanique Ultrasonic sensors XX |
| Sensor type | Ultrasonic sensor |
| Series name | General purpose |
| Sensor name | XX2 |
| Sensor design | Cylindrical M30 |
| Detection system | Diffuse |
| [Sn] nominal sensing distance | 8 m adjustable with teach push-button |
| Material | Plastic |
| Type of output signal | Discrete |
| Discrete output function | 2 NO |
| Wiring technique | 4-wire |
| Discrete output type | PNP |
| [Us] rated supply voltage | 12...24 V DC with reverse polarity protection |
| Electrical connection | Male connector M12 4 pins |
| Product specific application | For 2 levels monitoring |
| [Sd] sensing range | 0.3...8 m |
| Beam angle | 16 ° |
| IP degree of protection | IP67 conforming to IEC 60529 |

Complementary

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|---------------------------------|------------------------------|
| Enclosure material | ULTEM |
| Front material | Silicone |
| Thread type | M30 x 1.5 |
| Supply voltage limits | 10...28 V DC |
| Function available | Without synchronisation mode |
| [Sa] assured operating distance | 0.3...8 m (teach mode) |
| Maximum differential travel | 12.7 mm |
| Blind zone | 0...300 mm |

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| Transmission frequency | 75 kHz |
| Repeat accuracy | 2.54 % |
| Deviation angle from 90° of object to be detected | -5...5 ° |
| Minimum size of detected object | Cylinder diameter 50.8 mm at 4.732 m |
| Status LED | Output state: 1 LED (green/red (flashing)) Setting-up assistance: 1 LED (green/red (flashing)) Distance indication: 1 LED (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 | 1000 ms |
| Maximum delay response | 150 ms |
| Maximum delay recovery | 1000 ms |
| Marking | CE |
| Threaded length | 64.3 mm |
| Height | 44 mm |
| Width | 44 mm |
| Depth | 118 mm |
| Product weight | 0.11 kg |

Environment

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| Standards | IEC 60947-5-2 |
| Product certifications | UL cCSAus |
| 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 |

Offer Sustainability

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|----------------------------------|---|
| EU RoHS Directive | Not applicable, out of EU RoHS legal scope |
| 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 |

Recommended replacement(s)

XX2V1A1PKM12J14 is replaced by:

1x



Ultrasonic sensors XX, ultrasonic sensor, plastic, cylindrical M30, straight, 1 m, PNP
XXS30P1PM12