

XX512A1KAM8

ultrasonic sensor cylindrical M12 - Sn 0.05 m -
2NO - M8 connector



Main

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| Range of product | OsiSense XX |
| Sensor type | Ultrasonic sensor |
| Series name | General purpose |
| Sensor name | XX5 |
| Sensor design | Cylindrical M12 |
| Detection system | Diffuse |
| [Sn] nominal sensing distance | 0.05 m fixed |
| Material | Plastic |
| Type of output signal | Discrete |
| Discrete output function | 2 NO |
| Wiring technique | 4-wire |
| Discrete output type | PNP and NPN |
| [Us] rated supply voltage | 12...24 V DC with reverse polarity protection |
| Electrical connection | Male connector M8 4 pins |
| [Sd] sensing range | 0.0064...0.051 m |
| Beam angle | 11 ° |
| IP degree of protection | IP67 conforming to IEC 60529 |

Complementary

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| Enclosure material | ULTEM |
| Front material | Epoxy |
| Thread type | M12 x 1 |
| Supply voltage limits | 10...28 V DC |
| [Sa] assured operating distance | 0.0064...0.051 m |
| Maximum differential travel | 0.7 mm |
| Blind zone | 0...6.4 mm |
| Transmission frequency | 500 kHz |
| Repeat accuracy | 0.7 % |
| Deviation angle from 90° of object to be detected | -10...10 ° |
| Minimum size of detected object | Cylinder diameter 2.5 mm Flat bar 1 mm wide |
| Status LED | 1 LED (green) for supply on 1 LED (yellow) for output state |
| Current consumption | 25 mA |
| Maximum switching current | 100 mA with overload and short-circuit protection |
| Voltage drop | < 1 V |
| Switching frequency | <= 125 Hz |
| Delay first up | 20 ms |
| Delay response | 2 ms |
| Delay recovery | 2 ms |
| Marking | CE |
| Threaded length | 38 mm |
| Height | 12 mm |
| Width | 12 mm |
| Depth | 50 mm |
| Product weight | 0.011 kg |

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Environment

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| Standards | IEC 60947-5-2 |
| Ambient air temperature for operation | -20...65 °C |
| Ambient air temperature for storage | -40...80 °C |
| Vibration resistance | +/-1 mm conforming to IEC 60068-2-6 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 |

Offer Sustainability

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| Sustainable offer status | Not Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 1140 - Schneider Electric declaration of conformity |
| REACH | Reference contains SVHC above the threshold - go to CaP for more details |