

XXR18A4KAM12

ultrasonic sensor cylindrical M18 - receiver -Sn
1 m -2NO - M12 connector



Main

| | |
|-------------------------------|---|
| Range of product | OsiSense XX |
| Sensor type | Ultrasonic sensor receiver |
| Series name | General purpose |
| Sensor name | XXR |
| Sensor design | Cylindrical M18 |
| Detection system | Thru beam (need a transmitter XXT18A4M12) |
| [Sn] nominal sensing distance | 1 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 M12 4 pins |
| [Sd] sensing range | 0...1 m |
| IP degree of protection | IP67 conforming to IEC 60529 |

Complementary

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|---------------------------------|---|
| Enclosure material | ULTEM |
| Front material | Silicone |
| Thread type | M18 x 1 |
| Supply voltage limits | 10...28 V DC |
| [Sa] assured operating distance | 0...1 m |
| Current consumption | 40 mA |
| Maximum switching current | 100 mA with overload and short-circuit protection |
| Maximum voltage drop | 1 V |
| Switching frequency | <= 40 Hz |
| Maximum delay first up | 100 ms |
| Maximum delay response | 10 ms |
| Maximum delay recovery | 10 ms |
| Marking | CE |
| Threaded length | 51 mm |
| Height | 18 mm |
| Width | 18 mm |
| Depth | 65 mm |
| Net weight | 0.033 kg |

Environment






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|---------------------------------------|--|
| Standards | IEC 60947-5-2 |
| Product certifications | UL |
| Ambient air temperature for operation | 0...60 °C |
| Ambient air temperature for storage | -40...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 |

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|---------------------------------------|--|
| 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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| Package 1 Weight | 90.718 g |
|------------------|----------|

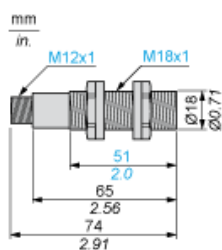
Offer Sustainability

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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 |

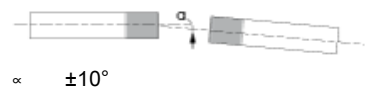
Contractual warranty

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|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions



Minimum Mounting Distances



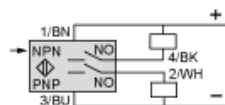
Wiring Diagram

M12



- (1) (+)
- (2) (PNP)
- (3) (-)
- (4) (NPN)

NPN, PNP, NO



BN Brown
WH White
BU Blue
BK Black