

XX9V3A1C2M12

ultrasonic sensor cylindrical M30 - Sn 1 m -
4..20 mA - M12 connector



Main

| | |
|-------------------------------|-----------------------------------------------|
| Commercial Status | Commercialised |
| Range of product | OsiSense XX |
| Sensor type | Ultrasonic sensor |
| Series name | General purpose |
| Sensor name | XX9 |
| Sensor design | Cylindrical M30 |
| Detection system | Diffuse |
| [Sn] nominal sensing distance | 1 m adjustable with remote teach push-button |
| Material | Plastic |
| Type of output signal | Analogue |
| Wiring technique | 4-wire |
| Analogue output function | 4...20 mA |
| [Us] rated supply voltage | 15...24 V DC with reverse polarity protection |
| Electrical connection | Male connector M12 4 pins |
| [Sd] sensing range | 0.1...1 m |
| Beam angle | 7 ° |
| IP degree of protection | IP67 conforming to IEC 60529 |

Complementary

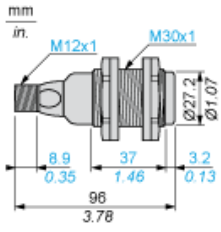
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|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Enclosure material | Valox |
| Front material | Epoxy |
| ISO thread | M30 x 1.5 |
| Supply voltage limits | 10...28 V DC |
| [Sa] assured operating distance | 0.1...1 m (teach mode) |
| Blind zone | 0...100 mm |
| Transmission frequency | 180 kHz |
| Repeat accuracy | 0.9 % |
| Deviation angle from 90° of object to be detected | -5...5 ° |
| Minimum size of detected object | Cylinder diameter 50.8 mm up to 1 m sensing distance |
| Status LED | 1 LED (yellow) for output state 1 LED (green) for supply on 1 LED (dual colour) for setting-up assistance |
| Current consumption | 60 mA |
| Maximum switching capacity | 350 Ohm with overload and short-circuit protection |
| Setting-up | Slope selection using teach button |
| Delay first up | 1200 ms |
| Delay response | 250 ms |
| Delay recovery | 250 ms |
| Marking | CE |
| Threaded length | 37 mm |
| Height | 96 mm |
| Width | 30 mm |
| Product weight | 0.09 kg |

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Environment

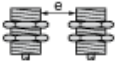
| | |
|---------------------------------------|------------------------------------------------------------|
| Standards | IEC 60947-5-2 |
| Ambient air temperature for operation | 0...70 °C |
| Ambient air temperature for storage | -40...80 °C |
| Vibration resistance | +/-1 mm conforming to IEC 60068-2-6 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 |

Dimensions



Minimum Mounting Distances

Side by side



e : respect the distances indicated on the detection curves

Face to face



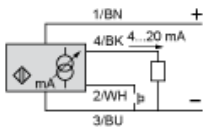
$e > 4 \times S_n$

Wiring Diagram

4-Wire Type

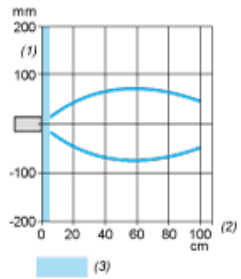


- (1) (+)
- (2) Return signal or teach
- (3) (-)
- (4) Output signal



- BN Brown
- WH White
- BU Blue
- BK Black

Curves



- (1) Parallel movement
- (2) Distance
- (3) Blind zone for diffuse sensors.