



## Main

|                               |   |
|-------------------------------|---|
| 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      | 0...10 V                                      |
| [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

|   |  |
|---|--|
| Enclosure material                                | Valox  |
| Front material                                    | Epoxy  |
| Thread type                                       | 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 at 1 m   |
| Status LED  | Setting-up assistance: 1 LED (dual colour)<br>Supply on: 1 LED (green)<br>Output state: 1 LED (yellow) |
| Current consumption                               | 60 mA  |
| Maximum switching capacity                        | 2 kOhm overload and short-circuit protection   |
| Setting-up  | Slope selection using teach button   |
| Maximum delay first up                            | 1200 ms  |
| Maximum delay response                            | 250 ms   |
| Maximum delay recovery                            | 250 ms   |
| Marking   | CE   |
| Threaded length                                   | 37 mm  |
| Height  | 96 mm  |
| Width   | 30 mm  |
| Net weight  | 0.09 kg  |






## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | IEC 60947-5-2  |
| Product certifications                | CCSAus<br>UL   |
| 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 (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

|                  |           |
|------------------|-----------|
| Package 1 Weight | 226.796 g |
| Package 1 Height | 3.000 cm  |
| Package 1 width  | 9.525 cm  |
| Package 1 Length | 3.000 cm  |

## Offer Sustainability

|                            |  |
|----------------------------|--|
| Sustainable offer status   | Green Premium product  |
| REACH Regulation           | <a href="#"> REACH Declaration</a>  |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#"> EU RoHS Declaration</a> |
| Mercury free               | Yes  |
| RoHS exemption information | <a href="#"> Yes</a>  |
| Environmental Disclosure   | <a href="#"> Product Environmental Profile</a>  |
| Circularity Profile        | <a href="#"> End of Life Information</a>  |

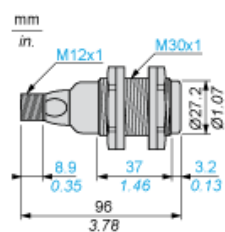
## Contractual warranty

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

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Dimensions

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## Minimum Mounting Distances

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### Side by side



e :    respect the distances indicated on the detection curves

### Face to face



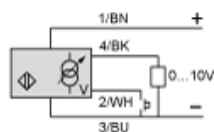
$e > 4 \times S_n$

## Wiring Diagram

### 4-Wire Type



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



BN Brown  
WH White  
BU Blue  
BK Black

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## Curves

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