



### Main

|                               |   |
|-------------------------------|---|
| Range of product              | OsiSense 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

|                                 |                              |
|---------------------------------|------------------------------|
| 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   |
| 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))<br>Setting-up assistance: 1 LED (green/red (flashing))<br>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

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

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><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 |
|----------|-----------|