

Product availability: Non-Stock - Not normally stocked in distribution facility

### Main

|                              |   |
|------------------------------|---|
| Commercial Status            | Commercialised                                |
| Range of product             | OsiSense XX                                   |
| Sensor type                  | Ultrasonic sensor                             |
| Sensor name                  | XX9   |
| Material                     | PBT (polybutylene terephthalate)              |
| Sensor design                | Ø 30 mm                                       |
| Product specific application | Analog output                                 |
| Type of output signal        | Analogue                                      |
| Wiring technique             | 4 wires                                       |
| [Us] rated supply voltage    | 15...24 V DC with reverse polarity protection |
| Electrical connection        | 1 male connector M12, 4 pins                  |
| [Sd] sensing range           | 0.39...6.56 ft (0.12...2 m)                   |
| Beam angle                   | 10 °  |
| IP degree of protection      | IP67 conforming to IEC 60529                  |

### Complementary

|   |  |
|---|--|
| Enclosure material                                | ULTEM  |
| Front material                                    | Silicone   |
| ISO thread  | M30 x 1.5  |
| Supply voltage limits                             | 10...28 V DC   |
| Analogue output range                             | 4...20 mA direct   |
| [Sn] nominal sensing distance                     | 6.56 ft (2 m)  |
| Type of sensing window                            | Adjustable   |
| [Sa] assured operating distance                   | 0.39...6.56 ft (0.12...2 m) (teach mode)   |
| Maximum differential travel                       | <= 0.1 in (2.5 mm)   |
| Blind zone  | 2.01 in (51 mm)  |
| Transmission frequency                            | 200 kHz  |
| Repeat accuracy                                   | 0.9 %  |
| Deviation angle from 90° of object to be detected | -8...8 °   |
| Minimum size of detected object                   | Cylinder diameter 1.6 mm up to 635 mm sensing distance   |
| Status LED  | 2 LEDs (yellow) for distance indication<br>2 LEDs (green/red (flashing)) for setting-up assistance<br>2 LEDs (green/red (flashing)) for output state |
| Current consumption                               | 100 mA   |
| Maximum switching current                         | 100 mA with overload and short-circuit protection  |
| Maximum switching capacity                        | 10...500 Ohm with overload and short-circuit protection  |
| Delay first up                                    | 1200 ms  |
| Delay response                                    | 1 s  |
| Delay recovery                                    | 1000 ms  |
| Marking   | CE   |
| Height  | 1.18 in (30 mm)  |
| Width   | 1.18 in (30 mm)  |
| Depth   | 1.18 in (30 mm)  |
| Length  | 3.78 in (96 mm)  |
| CAD overall height                                | 3.78 in (95.99 mm)   |
| CAD overall width                                 | 1.35 in (34.17 mm)   |

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|                   |                      |
|-------------------|----------------------|
| CAD overall depth | 1.35 in (34.17 mm)   |
| Product weight    | 0.2 lb(US) (0.09 kg) |

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | IEC 60947-5-2  |
| Product certifications                | UL   |
| NEMA degree of protection             | NEMA 4X for indoor use only                                  |
| Ambient air temperature for operation | 32...122 °F (0...50 °C)                                      |
| Ambient air temperature for storage   | -40...176 °F (-40...80 °C)                                   |
| Vibration resistance                  | +/-1 mm (f = 10...55 Hz) conforming to IEC 60068-2-6         |
| Shock resistance                      | 30 gn for 11 ms (in all 3 axes) conforming to IEC 60068-2-27 |
| Resistance to electrostatic discharge | 8 kV, level 4 conforming to IEC 61000-4-2                    |
| Resistance to electromagnetic fields  | 9.14 V/yd (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                    |

## Ordering and shipping details

|                       |   |
|-----------------------|---|
| Category              | 22490 - SENSORS-ULTRASONIC (XX5,6)                        |
| Discount Schedule     | DS2   |
| GTIN                  | 003389119130370   |
| Nbr. of units in pkg. | 1   |
| Package weight(Lbs)   | 0.09  |
| Product availability  | Non-Stock - Not normally stocked in distribution facility |
| Returnability         | Y   |
| Country of origin     | US  |

## Contractual warranty

|        |           |
|--------|-----------|
| Period | 18 months |
|--------|-----------|

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