



### Main

|                               |   |
|-------------------------------|---|
| Commercial Status             | Commercialised  |
| Range of product              | OsiSense XX   |
| Sensor type                   | Ultrasonic sensor                                       |
| Series name                   | General purpose   |
| Sensor name                   | XX9   |
| Sensor design                 | Flat form 18 x 33 x 60 + cylindrical M18                |
| Detection system              | Diffuse   |
| [Sn] nominal sensing distance | 1.64 ft (0.5 m) adjustable with remote teach pushbutton |
| Material                      | Plastic   |
| Type of output signal         | Analogue  |
| Wiring technique              | 4-wire  |
| Analogue output function      | 4...20 mA   |
| [Us] rated supply voltage     | 12...24 V DC with reverse polarity protection           |
| Electrical connection         | Male connector M12 4 pins                               |
| [Sd] sensing range            | 0.17...1.67 ft (0.051...0.508 m)                        |
| Beam angle                    | 6 °   |
| IP degree of protection       | IP67 conforming to IEC 60529                            |

### Complementary

|   |   |
|---|---|
| Enclosure material                                | Valox   |
| Front material                                    | Epoxy   |
| ISO thread  | M18 x 1   |
| Supply voltage limits                             | 10...28 V DC  |
| [Sa] assured operating distance                   | 0.17...1.67 ft (0.051...0.508 m) (teach mode)   |
| Blind zone  | 0...2.01 in (0...51 mm)   |
| Transmission frequency                            | 300 kHz   |
| Repeat accuracy                                   | 1.27 %  |
| Deviation angle from 90° of object to be detected | -7...7 °  |
| Minimum size of detected object                   | Flat bar 1 mm wide up to 150 mm sensing distance<br>Cylinder diameter 2.5 mm up to 150 mm sensing distance      |
| Status LED  | 1 LED (yellow) for output state<br>1 LED (green) for supply on<br>1 LED (dual colour) for setting-up assistance |
| Current consumption                               | 40 mA   |
| Maximum switching capacity                        | 10...500 Ohm with overload and short-circuit protection   |
| Setting-up  | Slope selection using teach button  |
| Delay first up                                    | 100 ms  |
| Delay response                                    | 15 ms   |
| Delay recovery                                    | 10 ms   |
| Marking   | CE  |
| Threaded length                                   | 0.79 in (20 mm)   |
| Height  | 2.56 in (65 mm)   |
| Width   | 1.73 in (44 mm)   |
| Depth   | 0.71 in (18 mm)   |
| Product weight                                    | 0.2 lb(US) (0.09 kg)  |

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | IEC 60947-5-2  |
| Ambient air temperature for operation | -4...149 °F (-20...65 °C)                                  |
| Ambient air temperature for storage   | -40...176 °F (-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  | 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                  | 003389119129855   |
| Nbr. of units in pkg. | 1   |
| Package weight(Lbs)   | 0.50  |
| Product availability  | Non-Stock - Not normally stocked in distribution facility |
| Returnability         | Y   |
| Country of origin     | US  |

## Contractual warranty

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