



## Main

|                              |  |
|------------------------------|--|
| Range of Product             | Telemecanique Ultrasonic sensors XX      |
| Sensor Type                  | Ultrasonic sensor                        |
| Sensor name                  | XX5                                      |
| Material                     | Valox                                    |
| Sensor design                | Ø 18 mm                                  |
| Product Specific Application | Optimum and universal                    |
| Type of output signal        | Discrete                                 |
| Wiring Technique             | 4-wire                                   |
| [Us] rated supply voltage    | 12...24 V DC reverse polarity protection |
| Discrete output function     | 1 NC                                     |
| Discrete output type         | PNP                                      |
| Electrical connection        | 1 male connector M12 4 pins              |
| [Sd] sensing range           | 2.00...20.00 in (50.8...508 mm)          |
| Beam angle                   | 5 °                                      |
| IP degree of protection      | IP67 conforming to IEC 60529             |

## Complementary

|   |   |
|---|---|
| Enclosure Material                                | ULTEM   |
| Front material                                    | Glass epoxy   |
| ISO thread  | M18 x 1   |
| Supply voltage limits                             | 10...28 V DC  |
| [Sn] nominal sensing distance                     | 20.00 in (508 mm)   |
| Type of sensing window                            | Adjustable  |
| [Sa] assured operating distance                   | 2.01...20.00 in (51...508 mm) teach mode)   |
| Maximum differential travel                       | 0.10 in (2.5 mm)  |
| Blind zone  | 2.01 in (51 mm)   |
| Transmission frequency                            | 300 kHz   |
| Repeat accuracy                                   | 1.27 %  |
| Deviation angle from 90° of object to be detected | -10...10 °  |
| Minimum size of detected object                   | Cylinder diameter 2.5 mm - up to 254 mm sensing distance                                  |
| Status LED  | Setting-up assistance 2 LEDs green/yellow (flashing)<br>Output state 2 LEDs green/yellow) |
| Current Consumption                               | 40 mA   |
| Maximum switching current                         | 100 mA overload and short-circuit protection  |
| Maximum voltage drop                              | <1.5 V  |
| Switching frequency                               | 40 Hz   |
| Maximum delay first up                            | 100 ms  |
| Maximum delay response                            | 15 ms   |
| Maximum delay recovery                            | 1000 ms   |
| Marking   | CE  |
| Height  | 0.71 in (18 mm)   |
| Width   | 0.71 in (18 mm)   |
| Depth   | 0.71 in (18 mm)   |
| Length  | 3.06 in (77.62 mm)  |
| CAD overall height                                | 0.03 in (0.654 mm)  |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                   |                        |
|-------------------|------------------------|
| CAD overall width | 0.71 in (18 mm)        |
| CAD overall depth | 0.71 in (18 mm)        |
| Net Weight        | 0.07 lb(US) (0.033 kg) |

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | IEC 60947-5-2                            |
| Product Certifications                | UL                                       |
| NEMA degree of protection             | NEMA 4X indoor use only)                 |
| Ambient Air Temperature for Operation | -22...158 °F (-30...70 °C)               |
| Ambient Air Temperature for Storage   | -40...176 °F (-40...80 °C)               |
| Vibration resistance                  | +/-1 mm 10...55 Hz)IEC 60068-2-6         |
| Shock resistance                      | 30 gn in all 3 axes 11 ms IEC 60068-2-27 |
| Resistance to electrostatic discharge | 8 kV level 4 IEC 61000-4-2               |
| Resistance to electromagnetic fields  | 9.14 V/m (10 V/m) level 3 IEC 61000-4-3  |
| Resistance to fast transients         | 1 kV level 3 IEC 61000-4-4               |

## Ordering and shipping details

|                   |                                  |
|-------------------|----------------------------------|
| Category          | 22490-SENSORS-ULTRASONIC (XX5,6) |
| Discount Schedule | DS2                              |
| GTIN              | 3389119055666                    |
| Returnability     | No                               |
| Country of origin | US                               |

## Packing Units

|                              |                    |
|------------------------------|--------------------|
| Unit Type of Package 1       | PCE                |
| Number of Units in Package 1 | 1                  |
| Package 1 Height             | 1.57 in (4.0 cm)   |
| Package 1 Width              | 1.57 in (4.0 cm)   |
| Package 1 Length             | 2.56 in (6.5 cm)   |
| Package 1 Weight             | 1.41 oz (40.007 g) |
| Unit Type of Package 2       | S01                |
| Number of Units in Package 2 | 15                 |
| Package 2 Height             | 5.91 in (15.0 cm)  |
| Package 2 Width              | 5.91 in (15.0 cm)  |
| Package 2 Length             | 15.75 in (40.0 cm) |
| Package 2 Weight             | 28.15 oz (798.0 g) |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| 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 |
|----------|-----------|