



### Main

|                               |  |
|-------------------------------|--|
| Range of Product              | Telemecanique Ultrasonic sensors XX                    |
| Sensor Type                   | Ultrasonic sensor                                      |
| Series name                   | General purpose  |
| Sensor name                   | XX6  |
| Sensor design                 | Cylindrical M30  |
| Detection system              | Diffuse  |
| [Sn] nominal sensing distance | 3.28 ft (1 m) adjustable with remote teach push-button |
| Material                      | Plastic  |
| Type of output signal         | Discrete   |
| Discrete output function      | 1 NO   |
| Wiring Technique              | 3-wire   |
| Discrete output type          | NPN  |
| [Us] rated supply voltage     | 12...24 V DC reverse polarity protection               |
| Electrical connection         | Male connector M12 4 pins                              |
| [Sd] sensing range            | 0.33...3.28 ft (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                   | 0.33...3.28 ft (0.1...1 m) teach mode)   |
| Maximum differential travel                       | 0.10 in (2.5 mm)   |
| Blind zone  | 0.00...3.94 in (0...100 mm)  |
| Transmission frequency                            | 180 kHz  |
| Repeat accuracy                                   | 0.9 %  |
| Deviation angle from 90° of object to be detected | -7...7 °   |
| Minimum size of detected object                   | Cylinder diameter 50.8 mm 3.28 ft (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 current                         | 100 mA overload and short-circuit protection   |
| Maximum voltage drop                              | 1 V  |
| Switching frequency                               | <= 70 Hz   |
| Maximum delay first up                            | 75 ms  |
| Maximum delay response                            | 15 ms  |
| Maximum delay recovery                            | 75 ms  |
| Marking   | CE   |
| Threaded length                                   | 1.46 in (37 mm)  |
| Height  | 3.78 in (96 mm)  |
| Width   | 1.18 in (30 mm)  |
| Net Weight  | 0.20 lb(US) (0.09 kg)  |

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | IEC 60947-5-2                            |
| Product Certifications                | UL<br>cCSAus                             |
| Ambient Air Temperature for Operation | 32...158 °F (0...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                  | 3389119029902                    |
| Nbr. of units in pkg. | 1                                |
| Package weight(Lbs)   | 4.41 oz (125.0 g)                |
| Returnability         | No                               |
| Country of origin     | US                               |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Package 1 Height             | 3.07 in (7.8 cm)       |
| Package 1 width              | 3.07 in (7.8 cm)       |
| Package 1 Length             | 6.10 in (15.5 cm)      |
| Unit Type of Package 2       | S03                    |
| Number of Units in Package 2 | 15                     |
| Package 2 Weight             | 5.64 lb(US) (2.558 kg) |
| Package 2 Height             | 11.81 in (30 cm)       |
| Package 2 width              | 11.81 in (30 cm)       |
| Package 2 Length             | 15.75 in (40 cm)       |

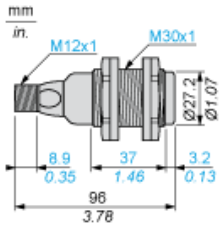
## Offer Sustainability

|                            |   |
|----------------------------|---|
| 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 |
|----------|-----------|

Dimensions

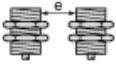


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Minimum Mounting Distances

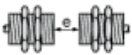
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Side by side



e : respect the distances indicated on the detection curves

Face to face



e > 4 x Sn

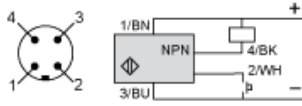
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Wiring Diagram

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3-Wire Type

NO outputs, NPN

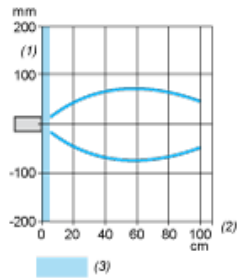


- (1) (+)
- (2) Teach input (WH)
- (3) (-)
- (4) Output
- BN Brown
- WH White
- BU Blue
- BK Black

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Curves

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