

# XX7F1A2PAL01M12

Ultrasonic sensors XX, ultrasonic sensor  
parallelepipedic, Sn 0.1 m, NO, pre cabled M12  
0.15 m



## Main

|                               |  |
|-------------------------------|--|
| Range of Product              | Telemecanique Ultrasonic sensors XX                |
| Sensor Type                   | Ultrasonic sensor                                  |
| Series name                   | General purpose                                    |
| Sensor name                   | XX7  |
| Sensor design                 | Flat form 33 x 19 x 7.6                            |
| Detection system              | Diffuse  |
| [Sn] nominal sensing distance | 0.33 ft (0.1 m) fixed                              |
| Material                      | Plastic  |
| Type of output signal         | Discrete   |
| Discrete output function      | 1 NO   |
| Wiring Technique              | 3-wire   |
| Discrete output type          | PNP  |
| [Us] rated supply voltage     | 12...24 V DC reverse polarity protection           |
| Electrical connection         | Remote male connector M12 4 pins, 0.49 ft (0.15 m) |
| [Sd] sensing range            | 0.02...0.33 ft (0.0064...0.102 m)                  |
| Beam angle                    | 14 °   |
| IP degree of protection       | IP67 conforming to IEC 60529                       |

## Complementary

|                                 |  |
|---------------------------------|--|
| Enclosure Material              | ULTEM  |
| Front material                  | Epoxy  |
| Supply voltage limits           | 10...28 V DC   |
| [Sa] assured operating distance | 0.02...0.33 ft (0.0064...0.102 m)                    |
| Maximum differential travel     | 0.03 in (0.7 mm)                                     |
| Blind zone                      | 0.00...0.25 in (0...6.4 mm)                          |
| Transmission frequency          | 500 kHz  |
| Repeat accuracy                 | 0.7 %  |
| Minimum size of detected object | Cylinder diameter 2.5 mm<br>Flat bar 1 mm wide       |
| Status LED                      | Supply on 1 LED green)<br>Output state 1 LED yellow) |
| Current Consumption             | 25 mA  |
| Maximum switching current       | 100 mA   |
| Maximum voltage drop            | 1 V  |
| Switching frequency             | <= 100 Hz  |
| Maximum delay first up          | 20 ms  |
| Maximum delay response          | 4 ms   |
| Maximum delay recovery          | 4 ms   |
| Marking                         | CE   |
| Height                          | 0.75 in (19 mm)                                      |
| Width                           | 0.31 in (8 mm)                                       |
| Depth                           | 1.30 in (33 mm)                                      |
| Net Weight                      | 0.09 lb(US) (0.04 kg)                                |

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## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | IEC 60947-5-2                            |
| Product Certifications                | UL                                       |
| 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 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                  | 3389110704167                      |
| Nbr. of units in pkg. | 1                                  |
| Package weight(Lbs)   | 1.13 oz (32 g)                     |
| Returnability         | Yes                                |
| Country of origin     | US                                 |

## Packing Units

|                              |                  |
|------------------------------|------------------|
| Unit Type of Package 1       | PCE              |
| Package 1 Height             | 3.74 in (9.5 cm) |
| Package 1 width              | 2.80 in (7.1 cm) |
| Package 1 Length             | 1.42 in (3.6 cm) |
| Unit Type of Package 2       | S01              |
| Number of Units in Package 2 | 15               |
| Package 2 Weight             | 33.40 oz (947 g) |
| Package 2 Height             | 5.91 in (15 cm)  |
| Package 2 width              | 5.91 in (15 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 |
|----------|-----------|