

# 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 | 0.1 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 with reverse polarity protection         |
| Electrical connection         | Remote male connector M12 4 pins, 0.15 m cable length |
| [Sd] sensing range            | 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 | 0.0064...0.102 m   |
| Maximum differential travel     | 0.7 mm   |
| Blind zone                      | 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                          | 19 mm  |
| Width                           | 8 mm   |
| Depth                           | 33 mm  |
| Net weight                      | 0.04 kg  |

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.

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | IEC 60947-5-2  |
| Product certifications                | UL   |
| Ambient air temperature for operation | -20...65 °C  |
| Ambient air temperature for storage   | -40...80 °C  |
| Vibration resistance                  | +/-1 mm conforming to IEC 60068-2-6 (f = 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  | 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                   |

## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Weight | 0.032 kg |
| Package 1 Height | 0.950 dm |
| Package 1 width  | 0.710 dm |
| Package 1 Length | 0.360 dm |

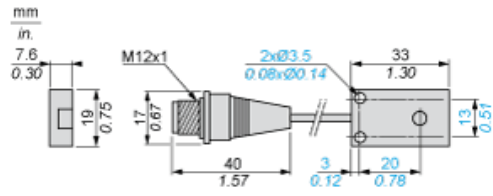
## Offer Sustainability

|                            |  |
|----------------------------|--|
| Sustainable offer status   | Green Premium product  |
| 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

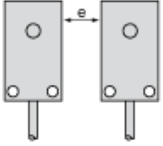


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Minimum Mounting Distances

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Side by side



e : respect the distances indicated on the detection curves

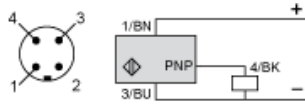
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Wiring Diagram

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3-Wire Type

NO outputs, PNP

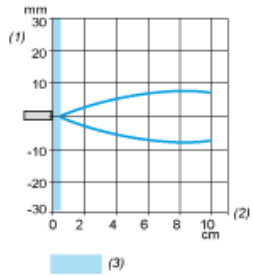


- (1) (+)
- (3) (-)
- (4) Output
- BN Brown
- BU Blue
- BK Black

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Curves

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