

# XX918A3F1M12

Ultrasonic sensors XX, ultrasonic sensor cylindrical M18, Sn 0.5 m, 0...10 V, M12 connector



## Main

|                               |  |
|-------------------------------|--|
| Range of Product              | Telemecanique Ultrasonic sensors XX                      |
| Sensor Type                   | Ultrasonic sensor  |
| Series name                   | General purpose  |
| Sensor name                   | XX9  |
| Sensor design                 | Cylindrical M18  |
| Detection system              | Diffuse  |
| [Sn] nominal sensing distance | 1.64 ft (0.5 m) adjustable with remote teach push-button |
| Material                      | Plastic  |
| Type of output signal         | Analogue   |
| Wiring Technique              | 4-wire   |
| Analogue output function      | 0...10 V   |
| [Us] rated supply voltage     | 12...24 V DC 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  |
| Thread type                                       | 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  | 0.00...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                   | Cylinder diameter 1.6 mm   |
| Status LED  | Setting-up assistance 1 LED dual colour)<br>Supply on 1 LED green)<br>Output state 1 LED yellow) |
| Current Consumption                               | 40 mA  |
| Maximum switching capacity                        | >= 1 kOhm overload and short-circuit protection  |
| Maximum voltage drop                              | 1 V  |
| Setting-up  | Slope selection using teach button   |
| Maximum delay first up                            | 100 ms   |
| Maximum delay response                            | 25 ms  |
| Maximum delay recovery                            | 25 ms  |
| Marking   | CE   |
| Threaded length                                   | 1.69 in (43 mm)  |
| Height  | 0.71 in (18 mm)  |
| Width   | 0.71 in (18 mm)  |
| Depth   | 3.11 in (79 mm)  |
| Net Weight  | 0.07 lb(US) (0.033 kg)   |

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | IEC 60947-5-2                            |
| Product Certifications                | UL<br>cCSAus                             |
| 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                  | 3389119029834                      |
| Nbr. of units in pkg. | 1                                  |
| Package weight(Lbs)   | 1.69 oz (48 g)                     |
| Returnability         | Yes                                |
| Country of origin     | US                                 |

## Packing Units

|                        |                  |
|------------------------|------------------|
| Unit Type of Package 1 | PCE              |
| Package 1 Height       | 1.57 in (4 cm)   |
| Package 1 width        | 3.35 in (8.5 cm) |
| Package 1 Length       | 3.35 in (8.5 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 |
|----------|-----------|