

# Product data sheet

## Characteristics

# XX218A3PFM12

Ultrasonic sensors XX, ultrasonic sensor cylindrical M18, 2 filling levels, Sn 0.5 m, NO, M12



Product availability: Non-Stock - Not normally stocked in distribution facility

Price\*: 147.00 USD



### Main

|                               |  |
|-------------------------------|--|
| Range of Product              | Telemecanique Ultrasonic sensors XX                      |
| Sensor Type                   | Ultrasonic sensor  |
| Series name                   | Application  |
| Sensor name                   | XX2  |
| 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         | 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         | Male connector M12 4 pins                                |
| Product Specific Application  | For 2 filling levels monitoring                          |
| [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) |
| Maximum differential travel     | 0.10 In (2.5 mm)                             |
| 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 2.5 mm 0.49 ft (0.15 m)  |
| 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 current                         | 100 mA overload and short-circuit protection   |
| Maximum voltage drop                              | 1 V  |
| Maximum delay first up                            | 100 Ms   |
| Maximum delay response                            | 15 Ms  |
| Maximum delay recovery                            | 1000 Ms  |
| Marking   | CE   |
| Threaded length                                   | 1.69 In (43 mm)  |
| Maximum Height                                    | 0.71 In (18 mm)  |
| Maximum Width                                     | 0.71 In (18 mm)  |
| Maximum 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                  | 00785901636984                     |
| Nbr. of units in pkg. | 1                                  |
| Package weight(Lbs)   | 8.00 Oz (226.796 g)                |
| Returnability         | No                                 |
| Country of origin     | US                                 |

## Packing Units

|                        |                  |
|------------------------|------------------|
| Unit Type of Package 1 | PCE              |
| Package 1 Height       | 1.50 In (3.8 cm) |
| Package 1 width        | 3.31 In (8.4 cm) |
| Package 1 Length       | 3.31 In (8.4 cm) |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Diisobutyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isooctyl 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 |  Yes   |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a>   |
| Circularity Profile        |  <a href="#">End Of Life Information</a>   |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Product Life Status : **Commercialised**