

# Product data sheet

## Characteristics

# XX930A2A2230M12

Ultrasonic sensors XX, ultrasonic sensor, M30, diffuse, Sn 2 m, 4...20 mA, 250 ms, M12

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



### Main

|                               |   |
|-------------------------------|---|
| Range of product              | Telemecanique Ultrasonic sensors XX             |
| Sensor type                   | Ultrasonic sensor                               |
| Series name                   | General purpose                                 |
| Sensor name                   | XX9   |
| Sensor design                 | Cylindrical M30                                 |
| Detection system              | Diffuse   |
| [Sn] nominal sensing distance | 6.56 ft (2 m) adjustable with teach push-button |
| Material                      | Plastic   |
| Type of output signal         | Analogue  |
| Wiring technique              | 4-wire  |
| Analogue output function      | 4...20 mA                                       |
| [Us] rated supply voltage     | 15...24 V DC reverse polarity protection        |
| Electrical connection         | Male connector M12 4 pins                       |
| [Sd] sensing range            | 0.39...6.56 ft (0.12...2 m)                     |
| Beam angle                    | 10 °  |
| IP degree of protection       | IP67 conforming to IEC 60529                    |

### Complementary

|   |   |
|---|---|
| Enclosure material                                | ULTEM                                   |
| Front material                                    | Silicone                                |
| Thread type                                       | M30 x 1.5                               |
| Supply voltage limits                             | 14...28 V DC                            |
| Function available                                | Without synchronisation mode            |
| [Sa] assured operating distance                   | 0.39...6.56 ft (0.12...2 m) teach mode) |
| Blind zone  | 0.00...4.72 in (0...120 mm)             |
| Transmission frequency                            | 200 kHz                                 |
| Repeat accuracy                                   | 0.9 %                                   |
| Deviation angle from 90° of object to be detected | -8...8 °                                |

\* Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

|                                 |  |
|---------------------------------|--|
| Minimum size of detected object | Cylinder diameter 1.6 mm 2.08 ft (0.635 m)   |
| Status LED                      | Setting-up assistance/supply on/output state 1 LED dual colour)<br>1 LED yellow)<br>1 LED green) |
| Current consumption             | 80 mA  |
| Maximum switching capacity      | 10...500 Ohm overload and short-circuit protection   |
| Setting-up                      | Slope selection using teach button   |
| Maximum delay first up          | 720 ms   |
| Maximum delay response          | 250 ms   |
| Maximum delay recovery          | 25 ms  |
| Marking                         | CE   |
| Threaded length                 | 1.77 in (45 mm)  |
| Height                          | 1.38 in (35 mm)  |
| Width                           | 1.38 in (35 mm)  |
| Depth                           | 3.35 in (85 mm)  |
| Net Weight                      | 0.21 lb(US) (0.095 kg)   |

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | IEC 60947-5-2                            |
| Product certifications                | UL<br>CCSAus                             |
| Ambient air temperature for operation | 32...122 °F (0...50 °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                  | 03389119130363                     |
| Nbr. of units in pkg. | 1                                  |
| Package weight(Lbs)   | 0.24 lb(US) (0.11 kg)              |
| Returnability         | No                                 |
| Country of origin     | US                                 |

## Offer Sustainability

|                           |   |
|---------------------------|---|
| 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         | Not applicable, out of EU RoHS legal scope  |

## Contractual warranty

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