

# XX230A21HA00M12

ultrasonic sensor cylindrical M30 - Sn=2m -  
pump in NO PNP sync - M12



## Main

|                               |   |
|-------------------------------|---|
| Range of product              | OsiSense XX                                   |
| Sensor type                   | Ultrasonic sensor                             |
| Series name                   | Application                                   |
| Sensor name                   | XX2   |
| Sensor design                 | Cylindrical M30                               |
| Detection system              | Diffuse                                       |
| [Sn] nominal sensing distance | 2 m adjustable with teach push-button         |
| Material                      | Plastic                                       |
| Type of output signal         | Discrete                                      |
| Discrete output function      | 2 NO  |
| Wiring technique              | 5-wire  |
| Discrete output type          | PNP   |
| [Us] rated supply voltage     | 12...24 V DC with reverse polarity protection |
| Electrical connection         | Male connector M12 5 pins                     |
| Product specific application  | For 2 filling levels monitoring               |
| [Sd] sensing range            | 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                             | 10...28 V DC  |
| Function available                                | With synchronisation mode   |
| [Sa] assured operating distance                   | 0.12...2 m (teach mode)   |
| Maximum differential travel                       | 2.5 mm  |
| Blind zone  | 0...120 mm  |
| Transmission frequency                            | 200 kHz   |
| Repeat accuracy                                   | 0.9 %   |
| Deviation angle from 90° of object to be detected | -10...10 °  |
| Minimum size of detected object                   | Cylinder diameter 1.6 mm 0.635 m  |
| Status LED  | 1 LED (green/red (flashing)) for output state<br>1 LED (green/red (flashing)) for setting-up assistance<br>1 LED (yellow) for distance indication |
| Current consumption                               | 100 mA  |
| Maximum switching current                         | 100 mA with overload and short-circuit protection   |
| Voltage drop                                      | < 1 V   |
| Delay first up                                    | 1000 ms   |
| Delay response                                    | 150 ms  |
| Delay recovery                                    | 1000 ms   |
| Marking   | CE  |
| Threaded length                                   | 45 mm   |
| Height  | 35 mm   |
| Width   | 35 mm   |

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|                |          |
|----------------|----------|
| Depth          | 85 mm    |
| Product weight | 0.091 kg |

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | IEC 60947-5-2  |
| Ambient air temperature for operation | 0...50 °C  |
| Ambient air temperature for storage   | -10...80 °C  |
| Vibration resistance                  | +/-1 mm conforming to IEC 60068-2-6 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                   |