# Product data sheet
## Characteristics

# XX2V3A1PFM12
## ULTRASONIC DUAL LEVEL SENSOR 2 NO 4 WIRES M30

Green Premium™



## Main

| | |
|---|---|
| Range of product | OsiSense XX |
| Sensor type | Ultrasonic sensor |
| Series name | General purpose |
| Sensor name | XX2 |
| Sensor design | Cylindrical M30 |
| Detection system | Diffuse |
| [Sn] nominal sensing distance | 8 m adjustable with teach push-button |
| Material | Plastic |
| Type of output signal | Discrete |
| Discrete output function | 2 NO |
| Wiring technique | 4-wire |
| Discrete output type | PNP |
| [Us] rated supply voltage | 12...24 V DC with reverse polarity protection |
| Electrical connection | Male connector M12 4 pins |
| Product specific application | For 2 levels monitoring |
| [Sd] sensing range | 0.98…26.25 ft (0.3…8 m) |
| Beam angle | 16 ° |
| IP degree of protection | IP67 IEC 60529 |

## Complementary

| | |
|---|---|
| Enclosure material | ULTEM |
| Front material | Silicone |
| Thread type | M30 x 1.5 |
| Supply voltage limits | 10…28 V DC |
| Function available | Without synchronisation mode |
| [Sa] assured operating distance | 0.98…26.25 ft (0.3…8 m) teach mode |

| Maximum differential travel | 0.50 in (12.7 mm) |
|---|---|
| Blind zone | 0.00…11.81 in (0…300 mm) |
| Transmission frequency | 75 kHz |
| Repeat accuracy | 2.54 % |
| Deviation angle from 90° of object to be detected | -5…5 ° |
| Minimum size of detected object | Cylinder diameter 50.8 mm 15.52 ft (4.732 m) |
| Status LED | Output state 1 LED green/red (flashing)) Setting-up assistance 1 LED green/red (flashing)) Distance indication 1 LED yellow) |
| Current consumption | 100 mA |
| Maximum switching current | 100 mA with overload and short-circuit protection |
| Maximum voltage drop | 1 V |
| Maximum delay first up | 1000 ms |
| Maximum delay response | 150 ms |
| Maximum delay recovery | 1000 ms |
| Marking | CE |
| Threaded length | 2.53 in (64.3 mm) |
| Height | 1.73 in (44 mm) |
| Width | 1.73 in (44 mm) |
| Depth | 4.65 in (118 mm) |
| Net weight | 0.24 lb(US) (0.11 kg) |

## Environment

| Standards | IEC 60947-5-2 |
|---|---|
| Product certifications | UL CCSAus |
| Ambient air temperature for operation | -4…140 °F (-20…60 °C) |
| Ambient air temperature for storage | 14…176 °F (-10…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/yd (10 V/m) level 3 IEC 61000-4-3 |
| Resistance to fast transients | 1 kV level 3 IEC 61000-4-4 |

## Packing Units

| Unit Type of Package 1 | PCE |
|---|---|
| Number of Units in Package 1 | 1 |
| Package 1 Weight | 3.20 oz (90.719 g) |
| Package 1 Height | 3.03 in (7.7 cm) |
| Package 1 width | 3.03 in (7.7 cm) |
| Package 1 Length | 6.10 in (15.5 cm) |

## Offer Sustainability

| Sustainable offer status | Green Premium product |
|---|---|
| REACh Regulation | REACh Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |

Life Is On | Schneider Electric