XX518A3PAM12
ultrasonic sensor cylindrical M18 - Sn 0.5 m - NO - M12 connector

Main

Range of product | OsiSense XX
Sensor type     | Ultrasonic sensor
Series name     | General purpose
Sensor name     | XX5
Sensor design   | Cylindrical M18
Detection system| Diffuse
[Sn] nominal sensing distance | 0.5 m adjustable with remote teach pushbutton
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 with reverse polarity protection
Electrical connection | Male connector M12 4 pins
[Sd] sensing range | 0.051...0.508 m
Beam angle      | 6 °
IP degree of protection | IP67 conforming to IEC 60529

Complementary

Enclosure material | Valox
Front material     | Epoxy
ISO thread         | M18 x 1
Supply voltage limits | 10...28 V DC
[Sa] assured operating distance | 0.051...0.508 m (teach mode)
Maximum differential travel | 2.5 mm
Blind zone         | 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 up to 150 mm sensing distance
Status LED         | 1 LED (green) for supply on
                    | 1 LED (yellow) for output state
Current consumption | 40 mA
Maximum switching current | 100 mA with overload and short-circuit protection
Voltage drop       | < 1 V
Switching frequency | <= 40 Hz
Delay first up     | 100 ms
Delay response     | 10 ms
Delay recovery     | 10 ms
Marking            | CE
Threaded length    | 43 mm
CAD overall height | 18 mm
CAD overall width  | 18 mm
CAD overall depth  | 79 mm
Product weight     | 0.033 kg
## Environment

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<tr>
<th>Standards</th>
<th>IEC 60947-5-2</th>
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<td>-20...65 °C</td>
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<td>Ambient air temperature for storage</td>
<td>-40...80 °C</td>
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<td>Vibration resistance</td>
<td>+/-1 mm conforming to IEC 60068-2-6 10...55 Hz</td>
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<td>Shock resistance</td>
<td>30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27</td>
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<td>Resistance to electrostatic discharge</td>
<td>8 kV level 4 conforming to IEC 61000-4-2</td>
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<td>Resistance to electromagnetic fields</td>
<td>10 V/m level 3 conforming to IEC 61000-4-3</td>
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<td>Resistance to fast transients</td>
<td>1 kV level 3 conforming to IEC 61000-4-4</td>
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<td>RoHS EUR status</td>
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