XS212B4PAL5
inductive sensor XS2 M12 - L37mm - brass - Sn8mm - 12..24VDC - cable 5m

Main
Range of product OsiSense XS
Series name General purpose
Sensor type Inductive proximity sensor
Device application Mobile equipment
Sensor name XS2
Sensor design Cylindrical M12
Size 37 mm
Body type Fixed
Detector flush mounting acceptance Non flush mountable
Material Metal
Type of output signal Discrete
Wiring technique 3-wire
[Sn] nominal sensing distance 8 mm
Discrete output function 1 NO
Output circuit type DC
Discrete output type PNP
Electrical connection Cable
Cable length 5 m
[Us] rated supply voltage 12...24 V DC with reverse polarity protection
Switching capacity in mA <= 200 mA with overload and short-circuit protection
IP degree of protection IP65 conforming to IEC 60529
IP67 conforming to DIN 40050
IP69K

Complementary
Thread type M12 x 1
Detection face Frontal
Front material PPS

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
<table>
<thead>
<tr>
<th>Enclosure material</th>
<th>Nickel plated brass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensing range</td>
<td>&gt; 4...8 mm</td>
</tr>
<tr>
<td>Operating zone</td>
<td>0...6.4 mm</td>
</tr>
<tr>
<td>Differential travel</td>
<td>1...15% of Sr</td>
</tr>
<tr>
<td>Cable composition</td>
<td>3 x 0.34 mm²</td>
</tr>
<tr>
<td>Wire insulation material</td>
<td>PvR</td>
</tr>
<tr>
<td>Status LED</td>
<td>Output state: 1 LED (yellow)</td>
</tr>
<tr>
<td>Supply voltage limits</td>
<td>10...36 V DC</td>
</tr>
<tr>
<td>Switching frequency</td>
<td>&lt;= 2000 Hz</td>
</tr>
<tr>
<td>Maximum voltage drop</td>
<td>&lt;2 V (closed)</td>
</tr>
<tr>
<td>Current consumption</td>
<td>&lt;= 10 mA no-load</td>
</tr>
<tr>
<td>Maximum delay first up</td>
<td>15 ms</td>
</tr>
<tr>
<td>Maximum delay response</td>
<td>0.2 ms</td>
</tr>
<tr>
<td>Maximum delay recovery</td>
<td>0.2 ms</td>
</tr>
<tr>
<td>Marking</td>
<td>CE</td>
</tr>
<tr>
<td>Threaded length</td>
<td>20 mm</td>
</tr>
<tr>
<td>Length</td>
<td>37 mm</td>
</tr>
<tr>
<td>Net weight</td>
<td>0.16 kg</td>
</tr>
</tbody>
</table>

### Environment
- **Product certifications**
  
  - UL
  - CSA
  - E2

- **Ambient air temperature for operation**
  
  - -25...70 °C

- **Ambient air temperature for storage**
  
  - -40...85 °C

- **Vibration resistance**
  
  - 25 gn amplitude = +/- 2 mm (f = 10...55 Hz) conforming to IEC 60068-2-6

- **Shock resistance**
  
  - 50 gn for 11 ms conforming to IEC 60068-2-27

### Packing Units
- **Unit Type of Package 1**
  
  - PCE

- **Number of Units in Package 1**
  
  - 1

- **Package 1 Weight**
  
  - 160 g

- **Package 1 Height**
  
  - 13 cm

- **Package 1 width**
  
  - 4.1 cm

- **Package 1 Length**
  
  - 9.4 cm

### Offer Sustainability
- **Sustainable offer status**
  
  - Green Premium product

- **EU RoHS Directive**
  
  - Pro-active compliance (Product out of EU RoHS legal scope)

- **Mercury free**
  
  - Yes

- **RoHS exemption information**
  
  - Yes

- **Environmental Disclosure**
  
  - Product Environmental Profile

- **Circularity Profile**
  
  - End of Life Information

### Contractual warranty
- **Warranty**
  
  - 18 months
### Dimensions

**Pre-cabled**

![Dimensions Diagram]

(1) Yellow LED (Output state indication)
Mounting and Clearance

Minimum Mounting Distances

**Side by Side**

- ≥ 100 mm
- ≥ 3.94 in.

**Face to Face**

- ≥ 120 mm
- ≥ 4.72 in.

**Facing a Metal Object**

- ≥ 24 mm
- ≥ 0.95 in.

**Mounted in a Metal Support**

- ≥ 36 mm
- ≥ 1.42 in.
Connection and Schema

Wiring Schemes
PNP 3-wire

BN : Brown
BK : Black
BU : Blue
Performance Curves

Standard Steel Target: 12 x 12 x 1 mm
Operating zone: 0…6.4 mm

(y)

Sensing distance in mm
(1) Pick-up points
(2) Drop-out points (object approaching from the side)