# Product data sheet
## Characteristics

# XS506B1PAM12

inductive sensor XS5 Ø6.5 - L45mm - stainless - Sn1.5mm - 12..24VDC - M12

Green Premium™ Product

### Main

| | |
|---|---|
| Range of product | OsiSense XS |
| Series name | General purpose |
| Sensor type | Inductive proximity sensor |
| Device application | - |
| Sensor name | XS5 |
| Sensor design | Cylindrical Ø 6.5 mm plain |
| Size | 45 mm |
| Body type | Fixed |
| Detector flush mounting acceptance | Flush mountable |
| Material | Stainless steel |
| Type of output signal | Discrete |
| Wiring technique | 3-wire |
| [Sn] nominal sensing distance | 1.5 mm |
| Discrete output function | 1 NO |
| Output circuit type | DC |
| Discrete output type | PNP |
| Electrical connection | 4 pins M12 male connector |
| [Us] rated supply voltage | 12...24 V DC with reverse polarity protection |
| Switching capacity in mA | <= 200 mA DC with overload and short-circuit protection |
| IP degree of protection | IP67 conforming to IEC 60529 |

### Complementary

| | |
|---|---|
| Detection face | Frontal |
| Front material | PPS |
| Enclosure material | Stainless steel 303 |
| Operating zone | 0…1.2 mm |
| Differential travel | 1...15% of Sr |
| Wire insulation material | PvR |
| Status LED | Output state: 1 LED (yellow) |
| Supply voltage limits | 10…36 V DC |
| Switching frequency | <= 5000 Hz |
| Maximum voltage drop | <2 V (closed) |
| Current consumption | <= 10 mA no-load |
| Maximum delay first up | 10 ms |
| Maximum delay response | 0.1 ms |
| Maximum delay recovery | 0.1 ms |
| Marking | CE |
| Height | 6.5 mm |
| Length | 45 mm |
| Net weight | 0.025 kg |

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## Environment

| | |
|---|---|
| Product certifications | CSA<br>UL |
| 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 | 24 g |
| Package 1 Height | 4.2 cm |
| Package 1 width | 6.6 cm |
| Package 1 Length | 9.6 cm |
| Unit Type of Package 2 | BAG |
| Number of Units in Package 2 | 1 |
| Package 2 Weight | 24 g |
| Package 2 Height | 1.2 cm |
| Package 2 width | 20 cm |
| Package 2 Length | 15 cm |
| Unit Type of Package 3 | S02 |
| Number of Units in Package 3 | 44 |
| Package 3 Weight | 1.469 kg |
| Package 3 Height | 15 cm |
| Package 3 width | 30 cm |
| Package 3 Length | 40 cm |

## Offer Sustainability

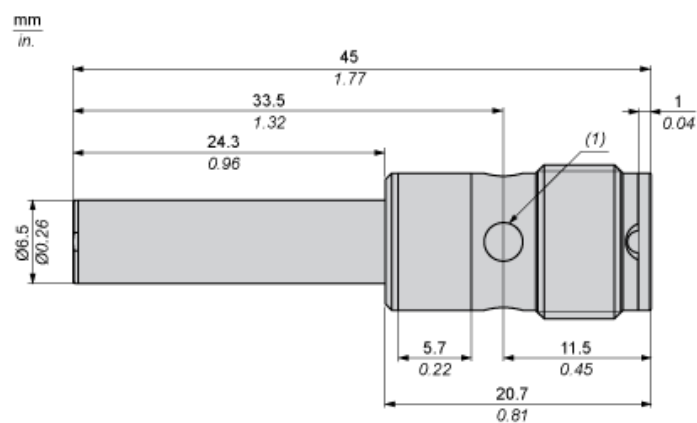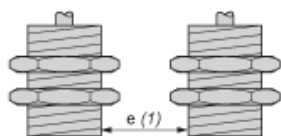| | |
|---|---|
| Sustainable offer status | Green Premium product |
| REACh Regulation | REACh Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| Environmental Disclosure |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

## Contractual warranty

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

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## Dimensions



(1) LED

# XS506B1PAM12

## Minimum Mounting Distances

Side by side



e (1)  3 mm/0.12 in.
≥

Face to face



e (2)  18 mm/0.71 in.
≥

Facing a metal object



e (3)  4.5 mm/0.18 in.
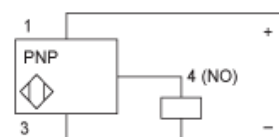≥

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## Wiring Schemes

M12 connector



PNP



1 :    (+)
2 :    Not connected
3 :    (-)
4 :    NO Output

## Performance Curves

### Standard Steel Target : 8x8x1 mm



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

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