



## Main

|                                    |   |
|------------------------------------|---|
| Range of product                   | OsiSense XS   |
| Series name                        | General purpose   |
| Sensor type                        | Inductive proximity sensor  |
| Sensor name                        | XS6   |
| Sensor design                      | Cylindrical M12   |
| Size                               | 54 mm   |
| Body type                          | Fixed   |
| Detector flush mounting acceptance | Flush mountable   |
| Material                           | Metal   |
| Type of output signal              | Discrete  |
| Wiring technique                   | 2-wire  |
| [Sn] nominal sensing distance      | 4 mm  |
| Discrete output function           | 1 NO  |
| Output circuit type                | AC/DC   |
| Electrical connection              | Cable   |
| Cable length                       | 10 m  |
| [Us] rated supply voltage          | 24...240 V AC/DC 50/60 Hz   |
| Switching capacity in mA           | 5...200 mA AC/DC  |
| IP degree of protection            | IP68 double insulation conforming to IEC 60529<br>IP69K conforming to DIN 40050 |

## Complementary

|                    |                     |
|--------------------|---------------------|
| Thread type        | M12 x 1             |
| Detection face     | Frontal             |
| Front material     | PPS                 |
| Enclosure material | Nickel plated brass |

|                          |                              |
|--------------------------|------------------------------|
| Sensing range            | > 2.5...4 mm                 |
| Operating zone           | 0...3.2 mm                   |
| Differential travel      | 1...15% of Sr                |
| Cable composition        | 2 x 0.34 mm <sup>2</sup>     |
| Wire insulation material | PvR                          |
| Status LED               | Output state: 1 LED (yellow) |
| Supply voltage limits    | 20...264 V AC/DC             |
| Maximum residual current | 0.8 mA open state            |
| Switching frequency      | <= 1000 Hz DC<br><= 25 Hz AC |
| Maximum voltage drop     | <5.5 V (closed)              |
| Maximum delay first up   | 20 ms                        |
| Maximum delay response   | 0.5 ms                       |
| Maximum delay recovery   | 0.2 ms                       |
| Marking                  | CE                           |
| Threaded length          | 42 mm                        |
| Length                   | 54 mm                        |
| Net weight               | 0.395 kg                     |

## Environment

|                                       |   |
|---------------------------------------|---|
| Product certifications                | UL<br>CSA   |
| 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             | 285.9 g  |
| Package 1 Height             | 6.7 cm   |
| Package 1 width              | 9.6 cm   |
| Package 1 Length             | 13.2 cm  |
| Unit Type of Package 2       | BAG      |
| Number of Units in Package 2 | 1        |
| Package 2 Weight             | 286 g    |
| Package 2 Height             | 5.5 cm   |
| Package 2 width              | 25 cm    |
| Package 2 Length             | 20 cm    |
| Unit Type of Package 3       | S01      |
| Number of Units in Package 3 | 7        |
| Package 3 Weight             | 2.201 kg |
| Package 3 Height             | 15 cm    |
| Package 3 width              | 15 cm    |
| Package 3 Length             | 40 cm    |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>   |

---

|                          |   |
|--------------------------|---|
| Environmental Disclosure | <a href="#">Product Environmental Profile</a> |
| Circularity Profile      | <a href="#">End of Life Information</a>       |

---

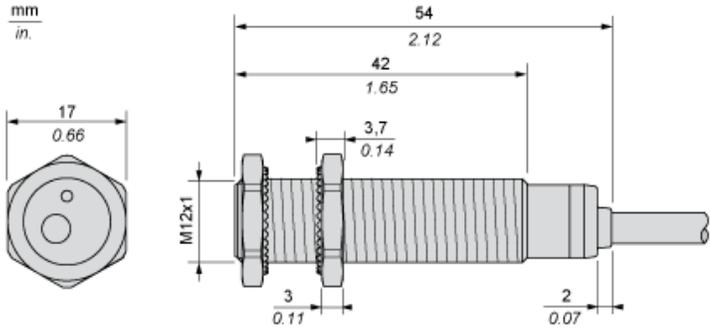
### Contractual warranty

---

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

---

Dimensions

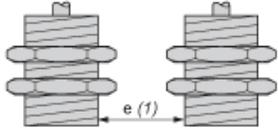


---

Minimum Mounting Distances

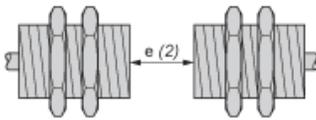
---

Side by side



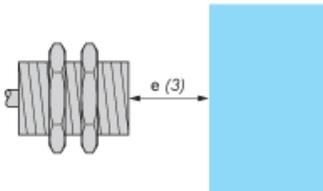
$e (1) \geq 8 \text{ mm}/0.31 \text{ in.}$

Face to face



$e (2) \geq 48 \text{ mm}/1.89 \text{ in.}$

Facing a metal object

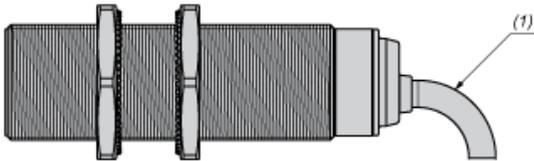


$e (3) \geq 12 \text{ mm}/0.47 \text{ in.}$

---

Mounting

---



(1) Bending cable: 4 x external cable diameter

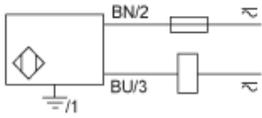
---

Wiring Schemes

---

2-Wire AC or DC

NO output



BU : Blue  
BN : Brown