



### Main

|                                    |  |
|------------------------------------|--|
| Range of product                   | OsiSense XS  |
| Series name                        | General purpose                                    |
| Sensor type                        | Inductive proximity sensor                         |
| Device application                 | -  |
| Sensor name                        | XS5  |
| Sensor design                      | Cylindrical M8                                     |
| Size                               | 62 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 NC   |
| Output circuit type                | DC   |
| Discrete output type               | NPN  |
| Electrical connection              | 4 pins M12 male connector                          |
| [Us] rated supply voltage          | 12...48 V DC with reverse polarity protection      |
| Switching capacity in mA           | <= 200 mA DC overload and short-circuit protection |
| IP degree of protection            | IP67 IEC 60529                                     |

### Complementary

|                    |                     |
|--------------------|---------------------|
| Thread type        | M8 x 1              |
| Detection face     | Frontal             |
| Front material     | PPS                 |
| Enclosure material | Stainless steel 303 |

|                        |                              |
|------------------------|------------------------------|
| Operating zone         | 0.00...0.05 in (0...1.2 mm)  |
| Differential travel    | 1...15% of Sr                |
| Status LED             | Output state: 1 LED (yellow) |
| Supply voltage limits  | 10...58 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                           |
| Threaded length        | 1.57 in (40 mm)              |
| Height                 | 0.31 in (8 mm)               |
| Length                 | 2.44 in (62 mm)              |
| Net weight             | 0.08 lb(US) (0.035 kg)       |

## Environment

|                                       |   |
|---------------------------------------|---|
| Product certifications                | UL<br>CSA                               |
| Ambient air temperature for operation | -13...158 °F (-25...70 °C)              |
| Ambient air temperature for storage   | -40...185 °F (-40...85 °C)              |
| Vibration resistance                  | 25 gn +/- 2 mm 10...55 Hz)IEC 60068-2-6 |
| Shock resistance                      | 50 gn 11 ms IEC 60068-2-27              |

## Packing Units

|                              |                  |
|------------------------------|------------------|
| Unit Type of Package 1       | PCE              |
| Number of Units in Package 1 | 1                |
| Package 1 Weight             | 0.53 oz (15 g)   |
| Package 1 Height             | 2.52 in (6.4 cm) |
| Package 1 width              | 1.61 in (4.1 cm) |
| Package 1 Length             | 3.70 in (9.4 cm) |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| 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 |
|----------|-----------|



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Minimum Mounting Distances

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Side by side



$e (1) \geq 3 \text{ mm}/0.12 \text{ in.}$

Face to face



$e (2) \geq 18 \text{ mm}/0.71 \text{ in.}$

Facing a metal object



$e (3) \geq 4.5 \text{ mm}/0.18 \text{ in.}$

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Wiring Schemes

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M12 connector



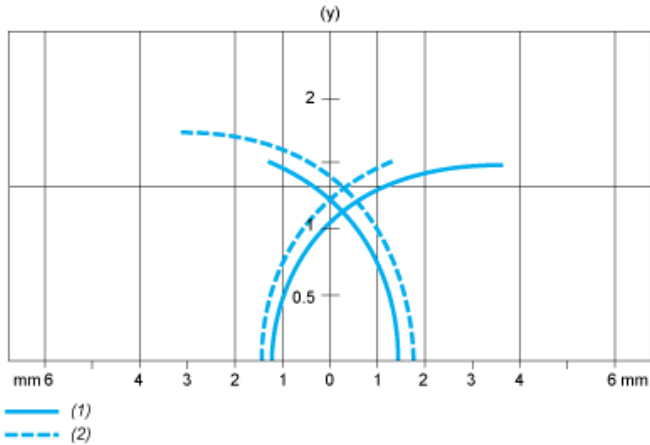
NPN



- 1 : (+)
- 2 : NC Output
- 3 : (-)
- 4 : Not connected

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