



Main

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|-------------------------------|---|
| Range of product | OsiSense XS |
| Series name | General purpose |
| Sensor type | Inductive proximity sensor |
| Sensor name | XS2 |
| Sensor design | Cylindrical M12 |
| Size | 44 mm |
| Body type | Fixed |
| Enclosure material | Nickel plated brass |
| Type of output signal | Discrete |
| Wiring technique | 3-wire |
| [Sn] nominal sensing distance | 4 mm |
| Discrete output function | 1 NC |
| Discrete output type | NPN |
| Electrical connection | Cable |
| Cable length | 6.56 ft (2 m) |
| [Us] rated supply voltage | 12...24 V DC with reverse polarity protection |
| Switching capacity in mA | <= 200 mA overload and short-circuit protection |
| IP degree of protection | IP67 IEC 60529 |

Complementary

| | |
|------------------------------------|-----------------------------|
| ISO thread | M12 x 1 |
| Detection face | Frontal |
| Detector flush mounting acceptance | Non flush mountable |
| Material | Metal |
| Front material | PBT |
| Operating zone | 0.00...0.13 in (0...3.2 mm) |

| | |
|--------------------------|------------------------------|
| Differential travel | 1...15% of Sr |
| Output circuit type | DC |
| Cable composition | 3 x 0.14 mm ² |
| Wire insulation material | PVC |
| Status LED | Output state: 1 LED (yellow) |
| Supply voltage limits | 10...36 V DC |
| Switching frequency | <= 1200 Hz |
| Maximum voltage drop | <2 V closed) |
| Current consumption | <= 10 mA no-load |
| Maximum delay first up | 15 ms |
| Maximum delay response | 0.15 ms |
| Maximum delay recovery | 0.4 ms |
| Marking | CE |
| Threaded length | 1.02 in (26 mm) |
| Height | 0.47 in (12 mm) |
| Length | 1.73 in (44 mm) |
| Net weight | 0.15 lb(US) (0.07 kg) |

Environment

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|---------------------------------------|---|
| 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 | 3.53 oz (100 g) |
| Package 1 Height | 1.61 in (4.1 cm) |
| Package 1 width | 3.82 in (9.7 cm) |
| Package 1 Length | 5.20 in (13.2 cm) |
| Unit Type of Package 2 | S01 |
| Number of Units in Package 2 | 11 |
| Package 2 Weight | 2.92 lb(US) (1.325 kg) |
| Package 2 Height | 5.91 in (15 cm) |
| Package 2 width | 5.91 in (15 cm) |
| Package 2 Length | 15.75 in (40 cm) |

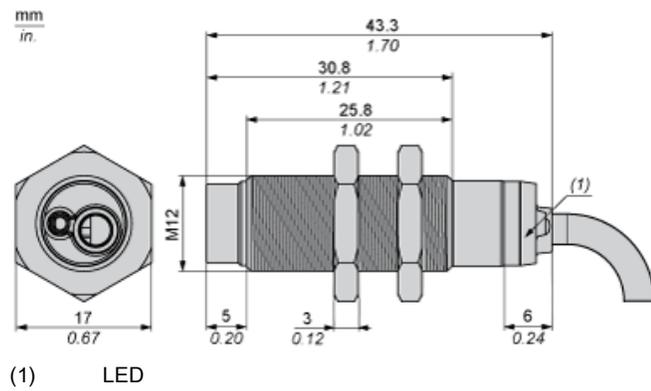
Offer Sustainability

| | |
|----------------------------|---|
| 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

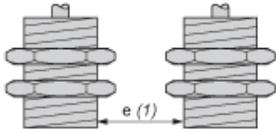
| | |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions



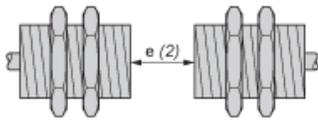
Minimum Mounting Distances

Side by side



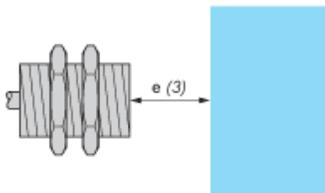
$e (1) \geq 16 \text{ mm}/0.63 \text{ in.}$

Face to face



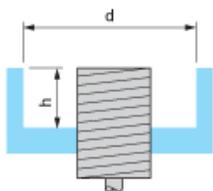
$e (2) \geq 48 \text{ mm}/1.89 \text{ in.}$

Facing a metal object



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

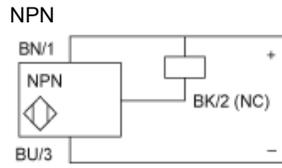
Mounted in a metal support



$d \geq 36 \text{ mm}/1.42 \text{ in.}$

$h \geq 8 \text{ mm}/0.31 \text{ in.}$

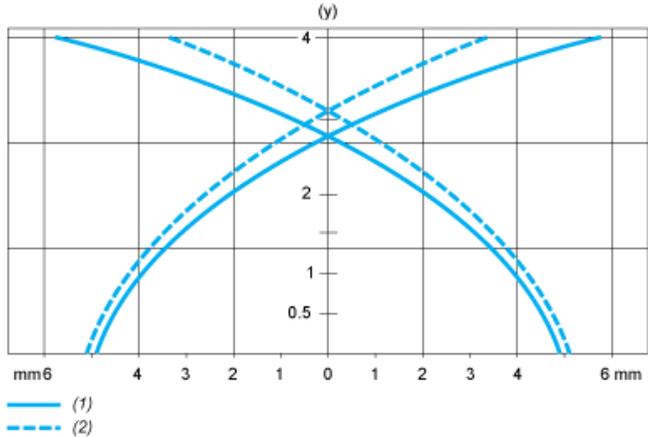
Wiring Schemes



BU : Blue
BN : Brown
BK : Black

Performance Curves

Standard Steel Target : 12x12x1 mm



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