



Main

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|------------------------------------|--|
| Range of product | OsiSense XS |
| Series name | General purpose |
| Sensor type | Inductive proximity sensor |
| Sensor name | XS4 |
| Sensor design | Cylindrical M12 |
| Size | 50 mm |
| Body type | Fixed |
| Detector flush mounting acceptance | Non flush mountable |
| Material | Plastic |
| Type of output signal | Discrete |
| Wiring technique | 4-wire |
| [Sn] nominal sensing distance | 4 mm |
| Discrete output function | 1 NO or 1 NC programmable |
| Output circuit type | DC |
| Discrete output type | PNP and NPN |
| Electrical connection | Cable |
| Cable length | 2 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 | IP68 double insulation conforming to IEC 60529 |

Complementary

| | |
|--------------------------|------------------------------|
| Thread type | M12 x 1 |
| Detection face | Frontal |
| Front material | PPS |
| Enclosure material | PPS |
| Operating zone | 0...3.2 mm |
| Differential travel | 1...15% of Sr |
| Cable composition | 4 x 0.34 mm ² |
| 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 | <2.6 V (closed) |
| Current consumption | 0...10 mA no-load |
| Maximum delay first up | 5 ms |
| Maximum delay response | 0.1 ms |
| Maximum delay recovery | 0.1 ms |
| Marking | CE |
| Threaded length | 42 mm |
| Height | 12 mm |
| Length | 54 mm |
| Net weight | 0.065 Kg 0.075 kg |

Environment

| | |
|---------------------------------------|---|
| Product certifications | UL 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 |
| Unit Type of Package 2 | BAG |
| Unit Type of Package 3 | S03 |

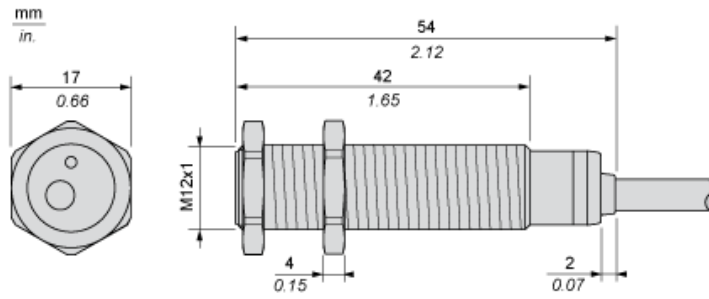
Offer Sustainability

| | |
|----------------------------|--|
| Sustainable offer status | Green Premium product |
| 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) 16 mm/0.63 in.

≥

Face to face



e (2) 48 mm/1.89 in.

≥

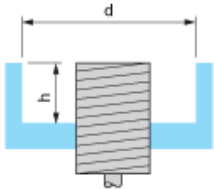
Facing a metal object



e (3) 12 mm/0.47 in.

≥

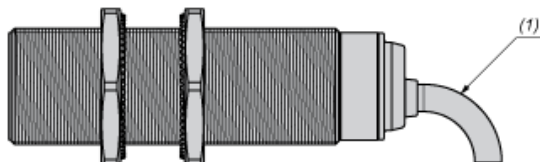
Mounted in a metal support



d ≥ 36 mm/1.42 in.

h ≥ 8 mm/0.31 in.

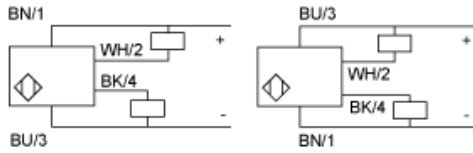
Mounting



(1) Bending cable: 4 x external cable diameter

Wiring Schemes

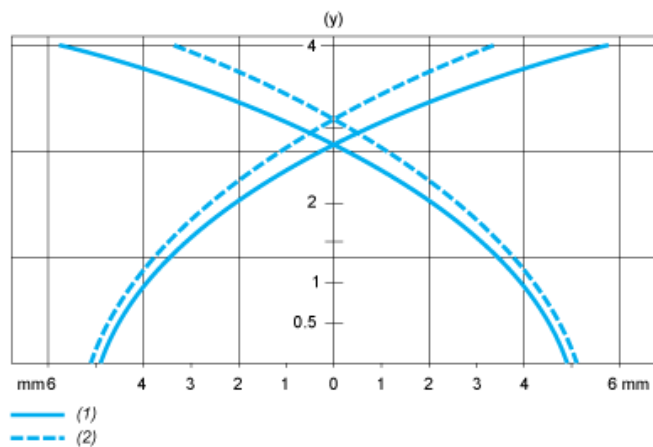
4-Wire DC, PNP/NPN, NO or NC Output



BU : Blue
BN : Brown
BK : Black
WH : White

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