



Main

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| Range of product | OsiSense XS |
| Series name | General purpose |
| Sensor type | Inductive proximity sensor |
| Device application | - |
| Sensor name | XS1 |
| Sensor design | Cylindrical Ø 4 mm plain |
| Size | 29 mm |
| Body type | Fixed |
| Detector flush mounting acceptance | Flush mountable |
| Material | Metal |
| Type of output signal | Discrete |
| Wiring technique | 3-wire |
| [Sn] nominal sensing distance | 1 mm |
| Discrete output function | 1 NO |
| Output circuit type | DC |
| Discrete output type | NPN |
| Electrical connection | Cable |
| Cable length | 5 m |
| [Us] rated supply voltage | 5...24 V DC |
| Switching capacity in mA | <= 100 mA with overload and short-circuit protection |
| IP degree of protection | IP67 conforming to IEC 60529 |

Complementary

| | |
|--------------------------|-------------------------------|
| Detection face | Frontal |
| Front material | PPS |
| Enclosure material | Nickel plated brass |
| Operating zone | 0...0.8 mm |
| Cable composition | 3 x 0.11 mm ² |
| Wire insulation material | PvR |
| Status LED | 1 LED yellow for output state |
| Supply voltage limits | 5...30 V DC |
| Switching frequency | <= 5000 Hz |
| Voltage drop | <= 2 V at closed state |
| Current consumption | <= 10 mA at no-load |
| Delay first up | <= 5 ms |

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| Delay response | <= 1 ms |
| Delay recovery | <= 1 ms |
| Marking | CE |
| Threaded length | 0 mm |
| Height | 4 mm |
| Length | 28 mm |
| Product weight | 0.145 kg |

Environment

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|---------------------------------------|---|
| Product certifications | CSA 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 |

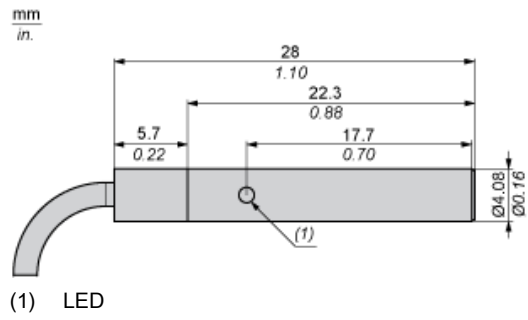
Offer Sustainability

| | |
|----------------------------------|--|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 1104 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product environmental profile | Available End Of Life Information |
| Product end of life instructions | Available |

Contractual warranty

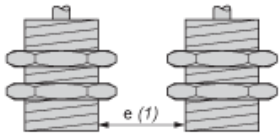
| | |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

Dimensions



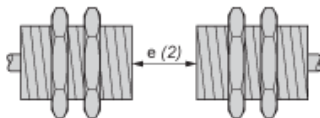
Minimum Mounting Distances in mm

Side by side



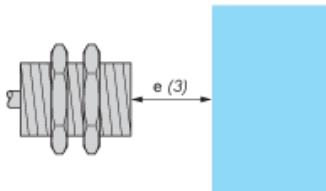
$e (1) \geq 2 \text{ mm}/0.79 \text{ in.}$

Face to face



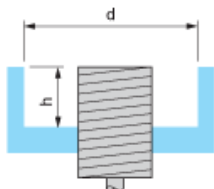
$e (2) \geq 2 \text{ mm}/0.47 \text{ in.}$

Facing a metal object



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

Mounted in a metal support

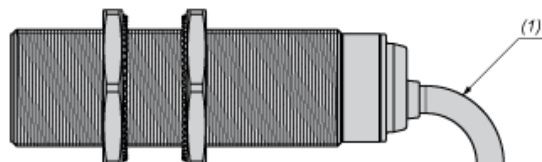


$d \geq 4 \text{ mm}/0.16 \text{ in.}$

$h \geq 0 \text{ mm}/0 \text{ in.}$

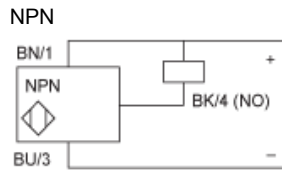
Tightening torque : 1.6 N.m. (values obtained with washers mounted)

Mounting



(1) Bending cable: 4 x external cable diameter

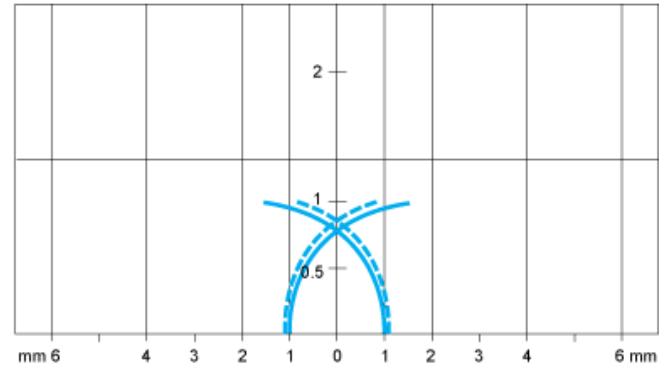
Wiring Schemes



BU : Blue
BN : Brown
BK : Black

Performance Curves

Standard Steel Target (mm) : 5x5x1



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

Product Life Status : **Commercialised**