



Main

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|-------------------------------|------------------------------------------------------|
| Range of product | OsiSense XS |
| Series name | General purpose |
| Sensor type | Inductive proximity sensor |
| Sensor name | XS1 |
| Sensor design | Cylindrical M18 |
| Size | 53 mm |
| Body type | Fixed |
| Enclosure material | Nickel plated brass |
| Type of output signal | Discrete |
| Wiring technique | 3-wire |
| [Sn] nominal sensing distance | 5 mm |
| Discrete output function | 1 NO |
| Discrete output type | NPN |
| Electrical connection | Cable |
| Cable length | 5 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 | IP67 conforming to IEC 60529 |

Complementary

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|------------------------------------|-------------------------------|
| ISO thread | M18 x 1 |
| Detection face | Frontal |
| Detector flush mounting acceptance | Flush mountable |
| Material | Metal |
| Front material | PBT |
| Operating zone | 0...4 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 | 1 LED yellow for output state |

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|-----------------------|------------------------|
| Supply voltage limits | 10...36 V DC |
| Switching frequency | <= 1200 Hz |
| Voltage drop | <= 2 V at closed state |
| Current consumption | <= 10 mA at no-load |
| Delay first up | <= 15 ms |
| Delay response | <= 0.1 ms |
| Delay recovery | <= 0.3 ms |
| Marking | CE |
| Threaded length | 41 mm |
| Height | 18 mm |
| Length | 53 mm |
| Product weight | 0.225 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 |

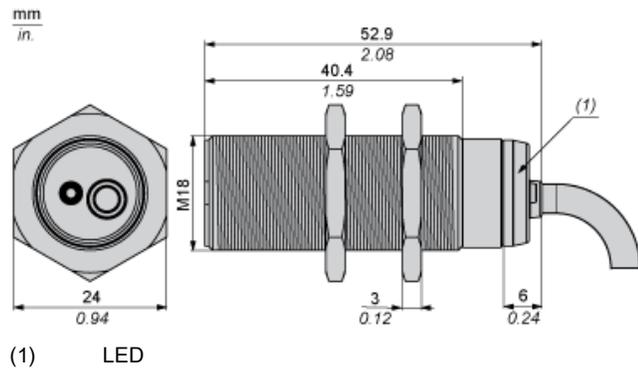
Offer Sustainability

| | |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| RoHS (date code: YYWW) | Compliant - since 0903 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------|

Contractual warranty

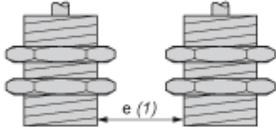
| | |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

Dimensions



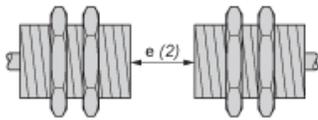
Minimum Mounting Distances

Side by side



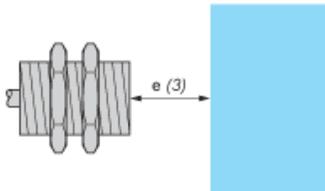
$e (1) \geq 10 \text{ mm}/0.39 \text{ in.}$

Face to face



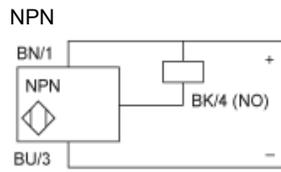
$e (2) \geq 60 \text{ mm}/2.36 \text{ in.}$

Facing a metal object



$e (3) \geq 15 \text{ mm}/0.60 \text{ in}$

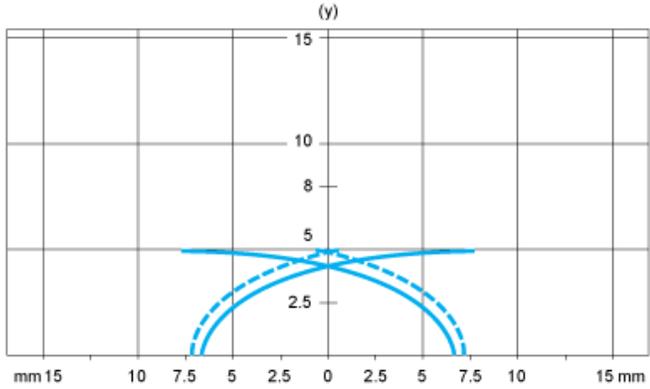
Wiring Schemes



BU : Blue
BN : Brown
BK : Black

Performance Curves

Standard Steel Target : 18x18x1 mm



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