



## Main

|                                    |   |
|------------------------------------|---|
| Range of product                   | OsiSense XS   |
| Series name                        | General purpose   |
| Sensor type                        | Inductive proximity sensor  |
| Device application                 | -   |
| Sensor name                        | XS5   |
| Sensor design                      | Cylindrical M12   |
| Size                               | 35 mm   |
| Body type                          | Fixed   |
| Detector flush mounting acceptance | Flush mountable   |
| Material                           | Metal   |
| Type of output signal              | Discrete  |
| Wiring technique                   | 2-wire  |
| [Sn] nominal sensing distance      | 2 mm  |
| Discrete output function           | 1 NO  |
| Output circuit type                | DC  |
| Electrical connection              | Cable   |
| Cable length                       | 2 m   |
| [Us] rated supply voltage          | 12...24 V DC with reverse polarity protection                                   |
| Switching capacity in mA           | 1.5...100 mA DC with overload and short-circuit protection                      |
| IP degree of protection            | IP68 double insulation conforming to IEC 60529<br>IP69K conforming to DIN 40050 |

## Complementary



|                    |                     |
|--------------------|---------------------|
| Thread type        | M12 x 1             |
| Detection face     | Frontal             |
| Front material     | PPS                 |
| Enclosure material | Nickel plated brass |

|                          |                                 |
|--------------------------|---------------------------------|
| Operating zone           | 0...1.6 mm                      |
| Differential travel      | 1...15% of Sr                   |
| Cable composition        | 3 x 0.34 mm <sup>2</sup>        |
| Wire insulation material | PvR                             |
| Status LED               | 1 LED (yellow) for output state |
| Supply voltage limits    | 10...36 V DC                    |
| Residual current         | <= 0.5 mA, open state           |
| Switching frequency      | <= 4000 Hz                      |
| Voltage drop             | <= 4 V, closed state            |
| Delay first up           | <= 10 ms                        |
| Delay response           | <= 0.2 ms                       |
| Delay recovery           | <= 0.2 ms                       |
| Marking                  | CE                              |
| Threaded length          | 25 mm                           |
| Height                   | 12 mm                           |
| Length                   | 35 mm                           |
| Product weight           | 0.035 kg                        |

## Environment

|                                       |   |
|---------------------------------------|---|
| Product certifications                | CSA<br>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 (duration = 11 ms) conforming to IEC 60068-2-27                   |

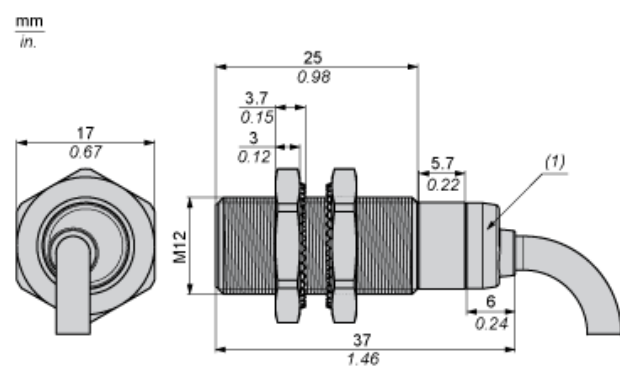
## Offer Sustainability

|                                  |   |
|----------------------------------|---|
| Sustainable offer status         | Green Premium product   |
| RoHS (date code: YYWW)           | Compliant - since 1004 - Schneider Electric declaration of conformity<br><a href="#"> Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold<br><a href="#">Reference not containing SVHC above the threshold</a>  |
| Product environmental profile    | Available<br><a href="#"> End of Life Information</a>  |
| Product end of life instructions | Available   |

## Contractual warranty

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

## Dimensions



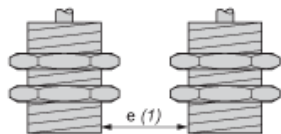
(1) LED

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Minimum Mounting Distances

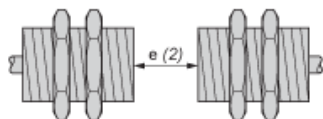
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Side by side



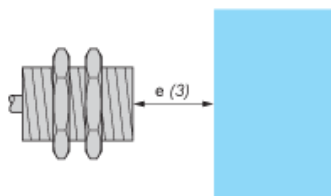
$e (1) \geq 4 \text{ mm}/0.16 \text{ in.}$

Face to face



$e (2) \geq 24 \text{ mm}/0.94 \text{ in.}$

Facing a metal object

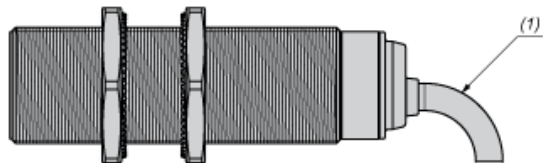


$e (3) \geq 6 \text{ mm}/0.24 \text{ in.}$

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Mounting

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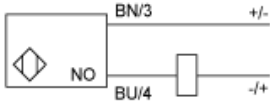


(1) Bending cable: 4 x external cable diameter

Wiring Schemes

2-Wire Non-polarised

NO output



BU : Blue  
BN : Brown

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Performance Curves

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Standard Steel Target : 12x12x1 mm

