



## Main

|                                    |                                                      |
|------------------------------------|------------------------------------------------------|
| 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      | 0.04 in (1 mm)                                       |
| Discrete output function           | 1 NO                                                 |
| Output circuit type                | DC                                                   |
| Discrete output type               | NPN                                                  |
| Electrical connection              | Cable                                                |
| Cable length                       | 6.56 ft (2 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...0.03 in (0...0.8 mm)  |
| Cable composition        | 3 x 0.11 mm <sup>2</sup>  |
| Wire insulation material | PvR                       |
| Status LED               | 1 LED yellow 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                   |
| Delay response           | <= 1 ms                   |
| Delay recovery           | <= 1 ms                   |
| Marking                  | CE                        |
| Threaded length          | 0 in (0 mm)               |
| Height                   | 0.16 in (4 mm)            |
| Length                   | 1.1 in (28 mm)            |
| Product weight           | 0.06 lb(US) (0.025 kg)    |

## Environment

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| product certifications                | CSA<br>UL                                                               |
| 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 amplitude = +/- 2 mm (f = 10...55 Hz) conforming to IEC 60068-2-6 |
| shock resistance                      | 50 gn 11 ms conforming to IEC 60068-2-27                                |

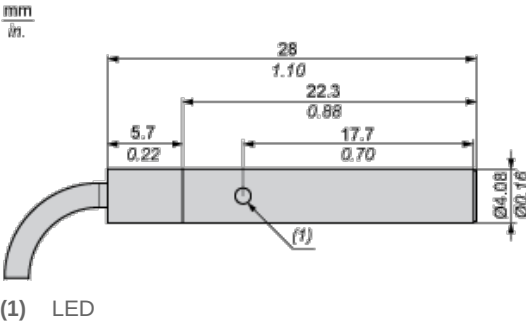
### Offer Sustainability

|                                                                                                                            |                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Green Premium product                                                                                                      | Green Premium product                                                                                                      |
| Compliant - since 0935 - Schneider Electric declaration of conformity                                                      | Compliant - since 0935 - Schneider Electric declaration of conformity                                                      |
| Reference not containing SVHC above the threshold                                                                          | Reference not containing SVHC above the threshold                                                                          |
| Available                                                                                                                  | Available                                                                                                                  |
| Available                                                                                                                  | Available                                                                                                                  |
| WARNING: This product can expose you to chemicals including:                                                               | WARNING: This product can expose you to chemicals including:                                                               |
| Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and                                | Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and                                |
| Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. | Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. |
| For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                              | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                              |

### Contractual warranty

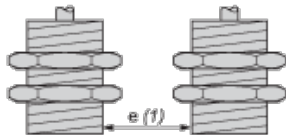
|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

### Dimensions



### Minimum Mounting Distances in mm

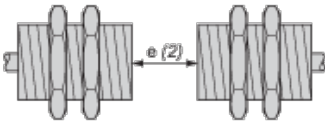
Side by side



e (1) 2 mm/0.79 in.

≥

Face to face



e (2) 12 mm/0.47 in.

≥

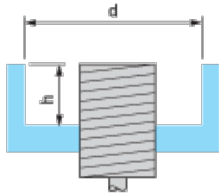
Facing a metal object



e (3) 3 mm/0.12 in.

≥

Mounted in a metal support

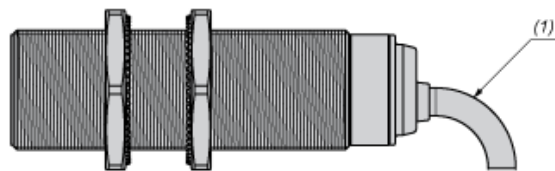


d ≥ 4 mm/0.16 in.

h ≥ 0 mm/0 in.

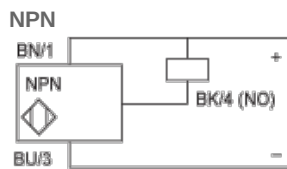
Tightening torque : 1.6 N.m. (values obtained with washers mounted)

## Mounting



(1) Bending cable: 4 x external cable diameter

## Wiring Schemes



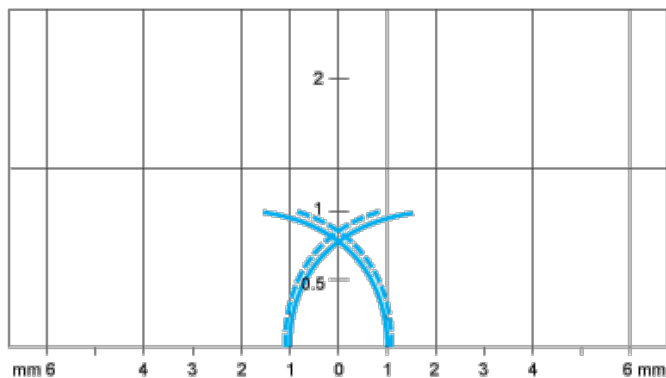
BU : Blue

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