



## Main

|                                    |                                                              |
|------------------------------------|--------------------------------------------------------------|
| Range of product                   | OsiSense XS                                                  |
| Series name                        | General purpose                                              |
| Sensor type                        | Inductive proximity sensor                                   |
| Device application                 | -                                                            |
| Sensor name                        | XS1                                                          |
| Sensor design                      | Cylindrical Ø 6.5 mm plain                                   |
| Size                               | 42 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      | 0.1 in (2.5 mm)                                              |
| Discrete output function           | 1 NC                                                         |
| Output circuit type                | DC                                                           |
| Discrete output type               | NPN                                                          |
| Electrical connection              | M8 male connector, 3 pins                                    |
| [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            | IP65 conforming to IEC 60529<br>IP67 conforming to IEC 60529 |
| Sale per indivisible quantity      | 1                                                            |

## Complementary

|                       |                             |
|-----------------------|-----------------------------|
| Detection face        | Frontal                     |
| Front material        | PPS                         |
| Enclosure material    | Nickel plated brass         |
| Operating zone        | 0...0.08 in (0...2 mm)      |
| Differential travel   | 1...15% of Sr               |
| Status LED            | 1 LED (yellow) output state |
| Supply voltage limits | 10...36 V DC                |
| Switching frequency   | <= 2500 Hz                  |
| Voltage drop          | <= 2 V (closed state)       |
| Current consumption   | <= 10 mA (no-load)          |
| Delay first up        | <= 10 ms                    |
| Delay response        | <= 0.2 ms                   |
| Delay recovery        | <= 0.2 ms                   |
| Marking               | CE                          |
| Length                | 1.65 in (42 mm)             |
| Product weight        | 0.07 lb(US) (0.03 kg)       |

## Environment

|                                       |                            |
|---------------------------------------|----------------------------|
| standards                             | UL                         |
| product certifications                | CSA                        |
| ambient air temperature for operation | -13...158 °F (-25...70 °C) |

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|                                     |                                                                         |
|-------------------------------------|-------------------------------------------------------------------------|
| 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 (duration = 11 ms) conforming to IEC 60068-2-27                   |

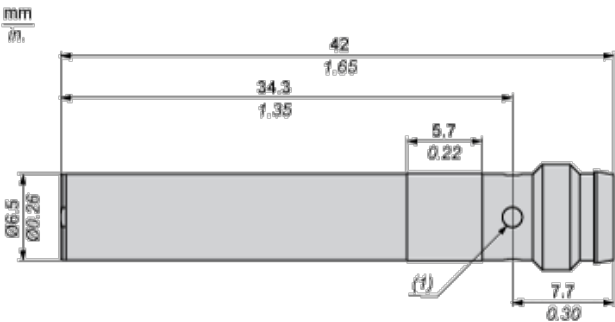
### Offer Sustainability

|                                                                                                                            |                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Green Premium product                                                                                                      | Green Premium product                                                                                                      |
| Compliant - since 1004 - Schneider Electric declaration of conformity                                                      | Compliant - since 1004 - 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 |
|-----------------|-----------|

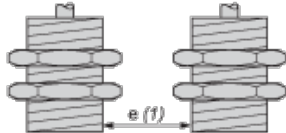
### Dimensions



(1) LED

### Minimum Mounting Distances in mm

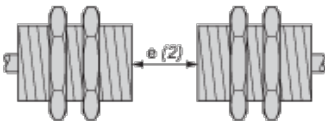
Side by side



e (1) 5 mm/0.20 in.

≥

Face to face



e (2) 30 mm/1.18 in.

≥

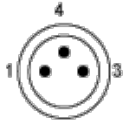
Facing a metal object



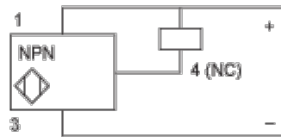
e (3) 8 mm/0.31 in.  
 $\geq$

## Wiring Schemes

M8 Connector

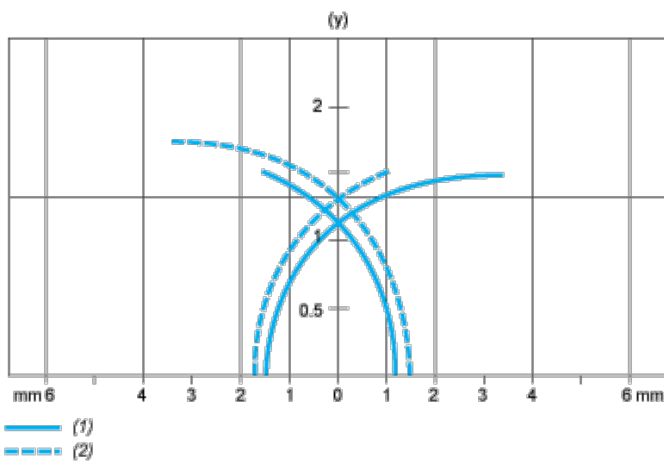


NPN



## Performance Curves

Standard Steel Target : 8x8x1 mm



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