



## Main

|                                    |                                                                                 |
|------------------------------------|---------------------------------------------------------------------------------|
| Range of product                   | OsiSense XS                                                                     |
| Series name                        | Application                                                                     |
| Sensor type                        | Inductive proximity sensor                                                      |
| Device application                 | -                                                                               |
| Sensor name                        | XS6                                                                             |
| Sensor design                      | Cylindrical M12                                                                 |
| Size                               | 55 mm                                                                           |
| Body type                          | Fixed                                                                           |
| Detector flush mounting acceptance | Non flush mountable                                                             |
| Material                           | Metal                                                                           |
| Type of output signal              | Discrete                                                                        |
| Wiring technique                   | 3-wire                                                                          |
| [Sn] nominal sensing distance      | 0.2 in (5 mm) non flush mountable<br>0.13 in (3.4 mm) flush mountable           |
| Discrete output function           | 1 NO                                                                            |
| Output circuit type                | DC                                                                              |
| Discrete output type               | NPN                                                                             |
| Electrical connection              | Remote male connector M12 4 pins                                                |
| Cable length                       | 0.49 ft (0.15 m)                                                                |
| [Us] rated supply voltage          | 12...24 V DC with reverse polarity protection                                   |
| Switching capacity in mA           | <= 100 mA with overload and short-circuit protection                            |
| IP degree of protection            | IP67 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                                                                             |
| Fine adjustment zone     | 0.07...0.13 in (1.7...3.4 mm) flush mountable<br>0.07...0.2 in (1.7...5 mm) non flush mountable |
| Differential travel      | 1...15% of Sr                                                                                   |
| Cable composition        | 3 x 0.34 mm <sup>2</sup>                                                                        |
| Wire insulation material | PvR                                                                                             |
| Status LED               | 1 LED (green) supply on and teach mode<br>1 LED (yellow) output state                           |
| Supply voltage limits    | 10...36 V DC                                                                                    |
| Switching frequency      | <= 1000 Hz                                                                                      |
| Voltage drop             | <= 2 V, closed state                                                                            |
| Current consumption      | <= 10 mA (no-load)                                                                              |
| Delay first up           | <= 10 ms                                                                                        |
| Delay response           | <= 0.3 ms                                                                                       |
| Delay recovery           | <= 0.7 ms                                                                                       |
| Marking                  | CE                                                                                              |
| Threaded length          | 1.65 in (42 mm)                                                                                 |
| Length                   | 2.32 in (59 mm)                                                                                 |
| Product weight           | 0.22 lb(US) (0.1 kg)                                                                            |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance 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.

Environment

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

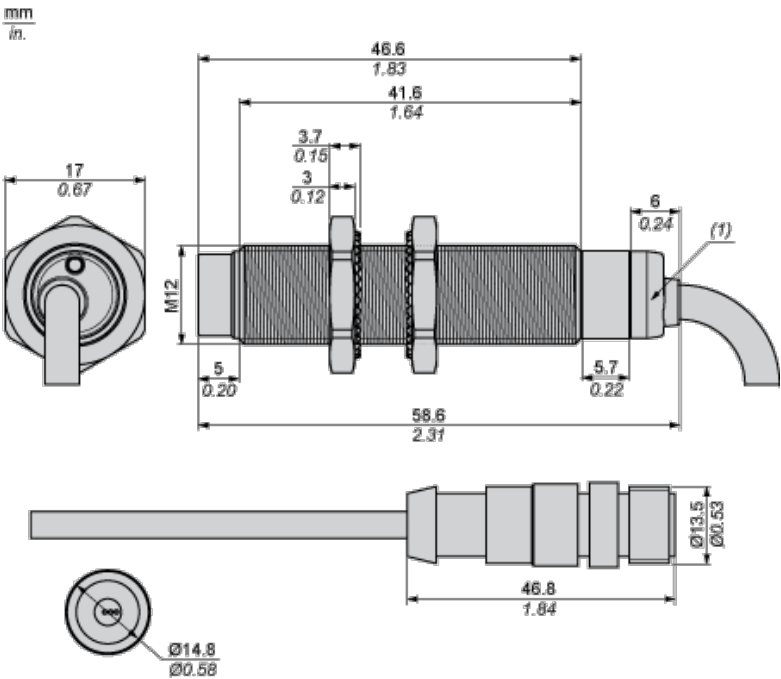
Offer Sustainability

|                                                                                                                            |                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Not Green Premium product                                                                                                  | Not Green Premium product                                                                                                  |
| Will be Compliant on 3Q2013                                                                                                | Will be Compliant on 3Q2013<br>Will be Compliant on 3Q2013                                                                 |
| 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 |
|-----------------|-----------|

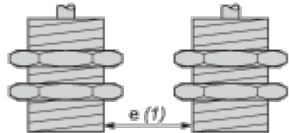
Dimensions



(1) LED

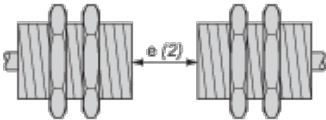
Minimum Mounting Distances in mm

Side by side



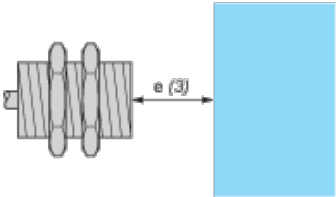
| e (1)         |        |                   |      |
|---------------|--------|-------------------|------|
| Flush mounted |        | Not flush mounted |      |
| mm            | in.    | mm                | in.  |
| ≥ 14          | ≥ 0.55 | 50                | 1.97 |

Face to face



| e (2)         |        |                   |      |
|---------------|--------|-------------------|------|
| Flush mounted |        | Not flush mounted |      |
| mm            | in.    | mm                | in.  |
| ≥ 50          | ≥ 1.97 | 100               | 3.94 |

Facing a metal object



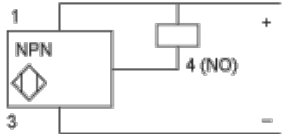
| e (3) |        |
|-------|--------|
| mm    | in.    |
| ≥ 3.4 | ≥ 0.13 |

Wiring Schemes

M12 connector



NPN



- 1 : (+)
- 2 : Not connected
- 3 : (-)
- 4 : NO Output