



## Main

|                                    |                              |
|------------------------------------|------------------------------|
| Range of product                   | OsiSense XS                  |
| Series name                        | Application                  |
| Sensor type                        | Inductive proximity sensor   |
| Device application                 | -                            |
| Sensor name                        | XS4                          |
| Sensor design                      | Cylindrical M12              |
| Size                               | 50 mm                        |
| Body type                          | Fixed                        |
| Detector flush mounting acceptance | Non flush mountable          |
| Material                           | Plastic                      |
| Type of output signal              | Analogue                     |
| Wiring technique                   | 2-wire                       |
| [Sn] nominal sensing distance      | 0.16 in (4 mm)               |
| Discrete output function           | 1 NC                         |
| Output circuit type                | DC                           |
| Analogue output range              | 4...20 mA                    |
| Electrical connection              | Cable                        |
| Cable length                       | 6.56 ft (2 m)                |
| [Us] rated supply voltage          | 12...24 V DC                 |
| IP degree of protection            | IP67 conforming to IEC 60529 |

## Complementary

|                          |                             |
|--------------------------|-----------------------------|
| Thread type              | M12 x 1                     |
| Detection face           | Frontal                     |
| Front material           | PBT                         |
| Enclosure material       | PBT                         |
| Operating zone           | 0.02...0.16 in (0.4...4 mm) |
| Repeat accuracy          | <= 3% of Sr                 |
| Linearity error          | +/- 2 mA                    |
| Cable composition        | 3 x 0.34 mm <sup>2</sup>    |
| Wire insulation material | PvR                         |
| Supply voltage limits    | 10...36 V DC                |
| Switching frequency      | <= 1500 Hz                  |
| Current consumption      | 4 mAat no-load              |
| Output current drift     | <= 10 %                     |
| Marking                  | CE                          |
| Threaded length          | 1.65 in (42 mm)             |
| Height                   | 0.47 in (12 mm)             |
| Length                   | 1.97 in (50 mm)             |
| Product weight           | 0.14 lb(US) (0.065 kg)      |

## Environment

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

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.

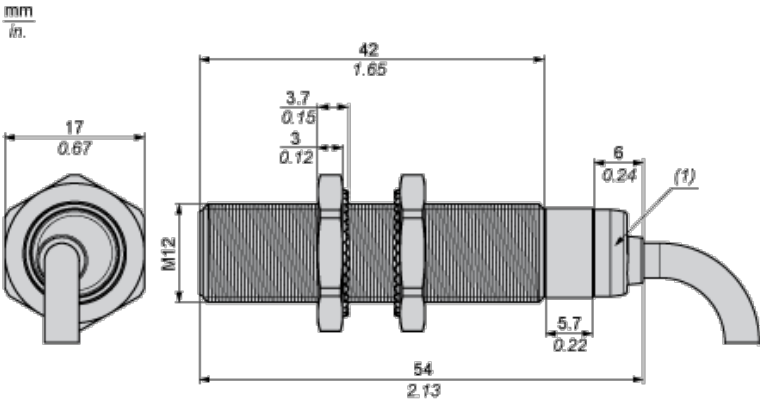
Offer Sustainability

|                                                                                                                            |                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Green Premium product                                                                                                      | Green Premium product                                                                                                      |
| Compliant - since 0808 - Schneider Electric declaration of conformity                                                      | Compliant - since 0808 - 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 |
|-----------------|-----------|

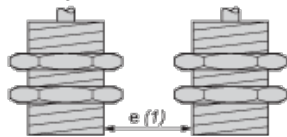
Dimensions



(1) LED

Minimum Mounting Distances

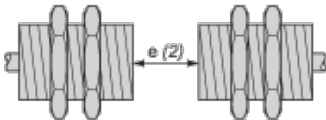
Side by side



e (1) 16 mm/0.63 in.

≥

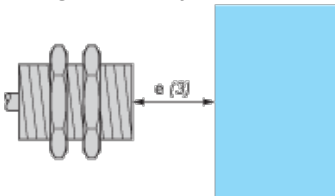
Face to face



e (2) 48 mm/1.89 in.

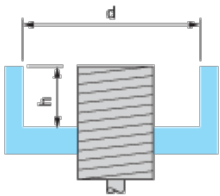
≥

Facing a metal object



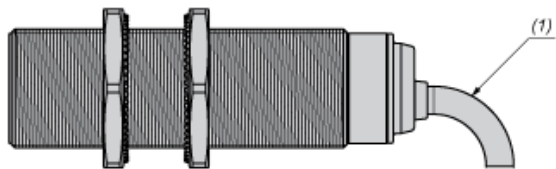
e (3) 12 mm/0.47 in.  
≥

Mounted in a metal support



d ≥ 36 mm/1.42 in.  
h ≥ 8 mm/0.31 in.

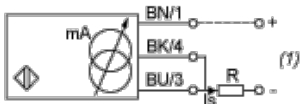
Mounting



(1) Bending cable: 4 x external cable diameter

Wiring Schemes

2-Wire connection



(1) Output current

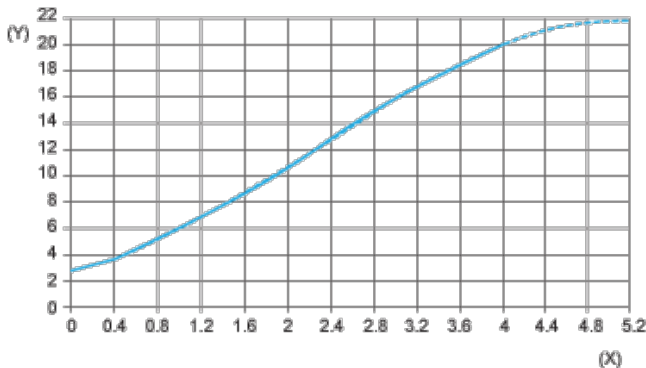
BN : Brown

BK : Black

BU : Blue

|      | Output current | Load impedance value   |
|------|----------------|------------------------|
| 12 V | 4...20 mA      | $R \leq 8.2 \, \Omega$ |
| 24 V | 4...20 mA      | $R \leq 470 \, \Omega$ |

Output Curves



(Y) Is (mA)

(X) Sensors - object distance (mm)

## Данный компонент на территории Российской Федерации

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<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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