



## Main

|                                    |                                                                       |
|------------------------------------|-----------------------------------------------------------------------|
| Range of product                   | OsiSense XS                                                           |
| Series name                        | General purpose                                                       |
| Sensor type                        | Inductive proximity sensor                                            |
| Device application                 | Mobile equipment                                                      |
| Sensor name                        | XS2                                                                   |
| Sensor design                      | Cylindrical M12                                                       |
| Size                               | 37 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      | 0.31 in (8 mm)                                                        |
| Discrete output function           | 1 NO                                                                  |
| Output circuit type                | DC                                                                    |
| Discrete output type               | PNP                                                                   |
| Electrical connection              | Cable                                                                 |
| Cable length                       | 6.56 ft (2 m)                                                         |
| [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>IP69K<br>IP67 conforming to DIN 40050 |

## Complementary

|                          |                           |
|--------------------------|---------------------------|
| Thread type              | M12 x 1                   |
| Detection face           | Frontal                   |
| Front material           | PPS                       |
| Enclosure material       | Nickel plated brass       |
| Operating zone           | 0...0.25 in (0...6.4 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 output state |
| Supply voltage limits    | 10...36 V DC              |
| Switching frequency      | <= 2000 Hz                |
| Voltage drop             | <= 2 V at closed state    |
| Current consumption      | <= 10 mA at no-load       |
| Delay first up           | <= 15 ms                  |
| Delay response           | <= 0.2 ms                 |
| Delay recovery           | <= 0.2 ms                 |
| Marking                  | CE                        |
| Threaded length          | 0.79 in (20 mm)           |
| Length                   | 1.46 in (37 mm)           |
| Product weight           | 0.19 lb(US) (0.086 kg)    |

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 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

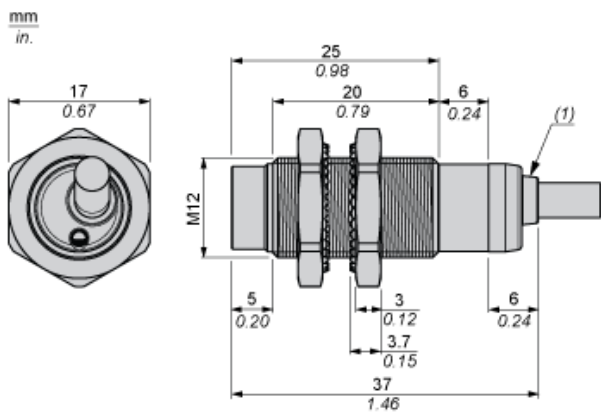
|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| product certifications                | CSA<br>UL<br>E2                                                         |
| 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 1550 - Schneider Electric declaration of conformity                                                      | Compliant - since 1550 - 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>                              |

Dimensions

Pre-cabled

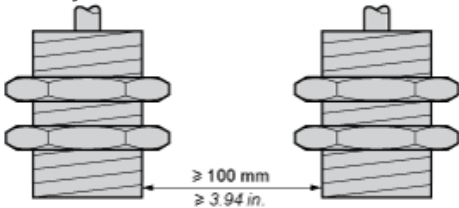


(1) Yellow LED (Output state indication)

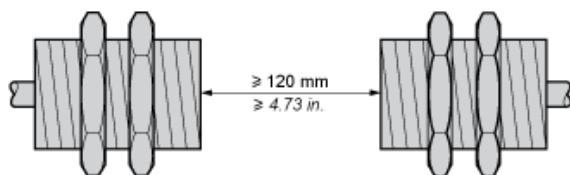
Mounting and Clearance

Minimum Mounting Distances

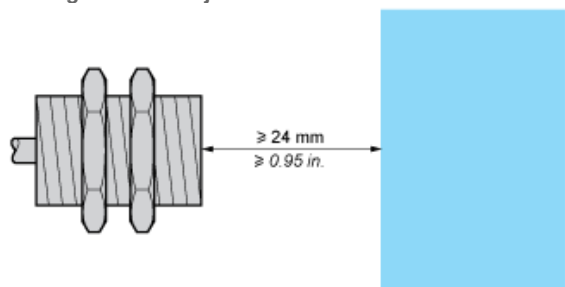
Side by Side



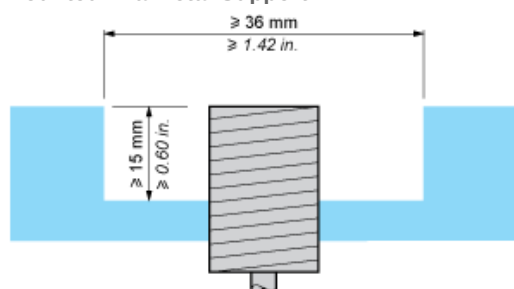
Face to Face



Facing a Metal Object



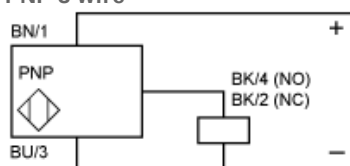
Mounted in a Metal Support



## Connection and Schema

### Wiring Schemes

PNP 3-wire



BN : Brown

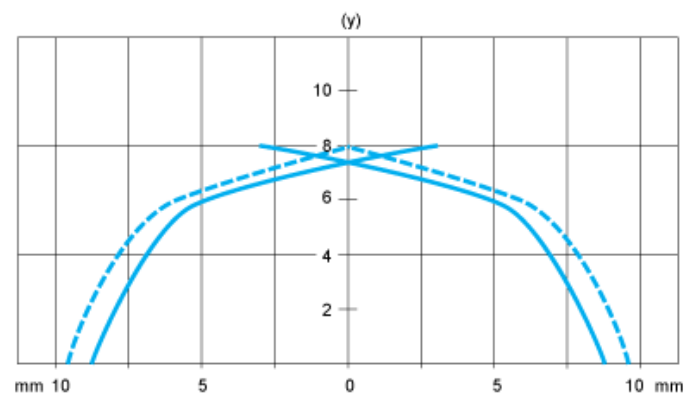
BK : Black

BU : Blue

### Performance Curves

Standard Steel Target: 12 x 12 x 1 mm

Operating zone: 0...6.4 mm



(1)

(2)

(y) Sensing distance in mm

- (1) Pick-up points
- (2) Drop-out points (object approaching from the side)

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

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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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