



## Main

|                                    |                                                      |
|------------------------------------|------------------------------------------------------|
| Range of product                   | OsiSense XS                                          |
| Series name                        | General purpose                                      |
| Sensor type                        | Inductive proximity sensor                           |
| Device application                 | Mobile equipment                                     |
| Sensor name                        | XS4                                                  |
| Sensor design                      | Cylindrical M18                                      |
| Size                               | 48 mm                                                |
| Body type                          | Fixed                                                |
| Detector flush mounting acceptance | Non flush mountable                                  |
| Material                           | Plastic                                              |
| Type of output signal              | Discrete                                             |
| Wiring technique                   | 4-wire                                               |
| [Sn] nominal sensing distance      | 0.31 in (8 mm)                                       |
| Discrete output function           | 1 NO + 1 NC                                          |
| Output circuit type                | DC                                                   |
| Discrete output type               | PNP                                                  |
| Electrical connection              | M12 male connector, 4 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            | IP67 conforming to IEC 60529                         |

## Complementary

|                         |                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------|
| Safety level            | SILCL 2 conforming to IEC 62061<br>PL = d conforming to EN/ISO 13849-1<br>SIL 2 conforming to EN/IEC 61508 |
| Safety reliability data | MTTFd = 1810 years<br>PFHd = 62.9E-9 1/h<br>SFF = 92 %<br>DC = 75 % with appropriate safety controller     |
| Service life            | 20 yr                                                                                                      |
| Thread type             | M18 x 1                                                                                                    |
| Detection face          | Frontal                                                                                                    |
| Front material          | PPS                                                                                                        |
| Enclosure material      | PPS                                                                                                        |
| Operating zone          | 0...0.25 in (0...6.4 mm)                                                                                   |
| Differential travel     | 1...15% of Sr                                                                                              |
| Status LED              | 1 LED (yellow) output state                                                                                |
| Supply voltage limits   | 10...36 V DC                                                                                               |
| Switching frequency     | <= 2000 Hz                                                                                                 |
| Voltage drop            | <= 2 V (closed)                                                                                            |
| Current consumption     | 0...10 mA (no-load)                                                                                        |
| Delay first up          | <= 5 ms                                                                                                    |
| Delay response          | <= 0.15 ms                                                                                                 |
| Delay recovery          | <= 0.35 ms                                                                                                 |
| Marking                 | CE                                                                                                         |
| Threaded length         | 1.14 in (29 mm)                                                                                            |

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.

|                |                       |
|----------------|-----------------------|
| Height         | 0.71 in (18 mm)       |
| Length         | 1.89 in (48 mm)       |
| Product weight | 0.09 lb(US) (0.04 kg) |

### Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| standards                             | EN/ISO 13849-1<br>IEC 62061                                             |
| 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                   |

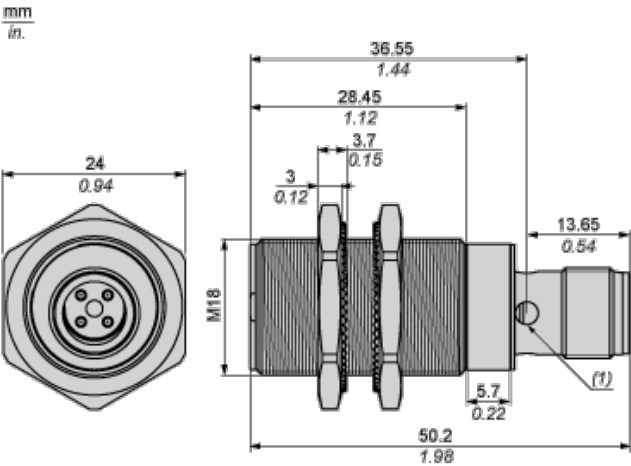
### Offer Sustainability

|                                                                                                                            |                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Green Premium product                                                                                                      | Green Premium product                                                                                                      |
| Compliant - since 0840 - Schneider Electric declaration of conformity                                                      | Compliant - since 0840 - 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 |
|-----------------|-----------|

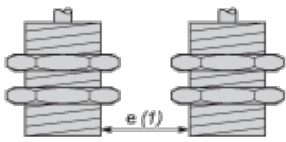
### Dimensions



(1) LED

### Minimum Mounting Distances

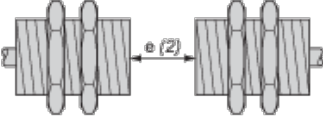
Side by side



**e (1)** 32 mm/1.26 in.

≥

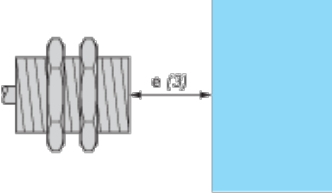
Face to face



**e (2)** 96 mm/3.78 in.

≥

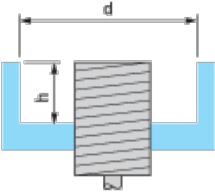
Facing a metal object



**e (3)** 24 mm/0.94 in.

≥

Mounted in a metal support



**d** ≥ 56 mm/2.20 in.

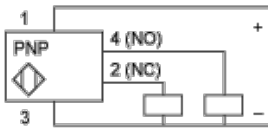
**h** ≥ 16 mm/0.63 in.

## Wiring Schemes

M12 connector

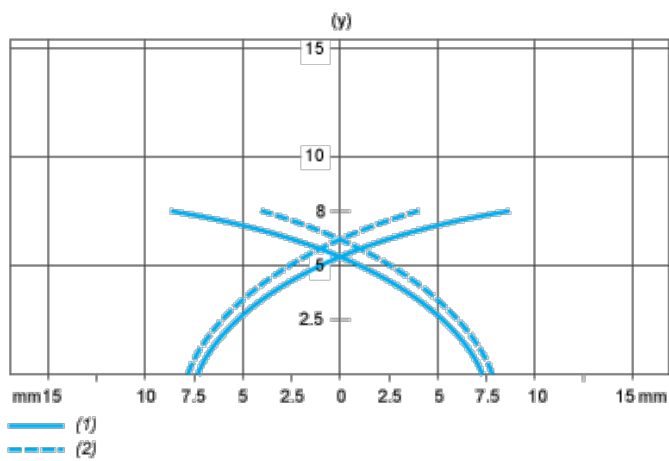


PNP 4-wire



## Performance Curves

Standard Steel Target : 24x24x1 mm



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



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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