



## Main

|                                    |                                                      |
|------------------------------------|------------------------------------------------------|
| Range of product                   | OsiSense XS                                          |
| Series name                        | General purpose                                      |
| Sensor type                        | Inductive proximity sensor                           |
| Device application                 | Mobile equipment                                     |
| Sensor name                        | XS1                                                  |
| Sensor design                      | Cylindrical M30                                      |
| Size                               | 41 mm                                                |
| Body type                          | Fixed                                                |
| Detector flush mounting acceptance | Flush mountable                                      |
| Material                           | Metal                                                |
| Type of output signal              | Discrete                                             |
| Wiring technique                   | 4-wire                                               |
| [Sn] nominal sensing distance      | 0.39 in (10 mm)                                      |
| Discrete output function           | 1 NO + 1 NC                                          |
| Output circuit type                | DC                                                   |
| Discrete output type               | PNP                                                  |
| Electrical connection              | Cable                                                |
| Cable length                       | 32.81 ft (10 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<br>IP68 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 = 74 % with appropriate safety controller     |
| Service life             | 20 yr                                                                                                      |
| Thread type              | M30 x 1.5                                                                                                  |
| Detection face           | Frontal                                                                                                    |
| Front material           | PPS                                                                                                        |
| Enclosure material       | Nickel plated brass                                                                                        |
| Operating zone           | 0...0.31 in (0...8 mm)                                                                                     |
| Differential travel      | 1...15% of Sr                                                                                              |
| Cable composition        | 4 x 0.22 mm <sup>2</sup>                                                                                   |
| Wire insulation material | PvR                                                                                                        |
| Status LED               | 1 LED yellow output state                                                                                  |
| Supply voltage limits    | 9...36 V DC                                                                                                |
| Switching frequency      | <= 1000 Hz                                                                                                 |
| Voltage drop             | <= 2 V at closed state                                                                                     |
| Current consumption      | 0...10 mA at no-load                                                                                       |
| Delay first up           | <= 5 ms                                                                                                    |
| Delay response           | <= 0.3 ms                                                                                                  |
| Delay recovery           | <= 0.7 ms                                                                                                  |

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.

|                 |                                                |
|-----------------|------------------------------------------------|
| Marking         | CE                                             |
| Threaded length | 1.3 in (33 mm)                                 |
| Height          | 1.18 in (30 mm)                                |
| Length          | 1.77 in (45 mm)                                |
| Product weight  | 0.35 lb(US) (0.16 kg)<br>1.06 lb(US) (0.48 kg) |

### Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| standards                             | EN/ISO 13849-1<br>IEC 62061                                             |
| product certifications                | CSA<br>TÜV<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

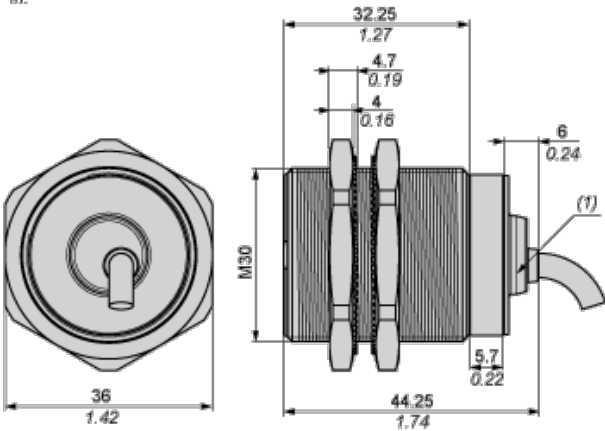
|                                                                                                                            |                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Not Green Premium product                                                                                                  | Not Green Premium product                                                                                                  |
| Compliant - since 0811 - Schneider Electric declaration of conformity                                                      | Compliant - since 0811 - Schneider Electric declaration of conformity                                                      |
| 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

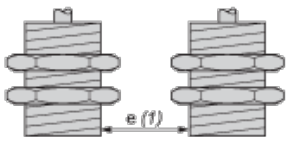
mm  
in.



(1) LED

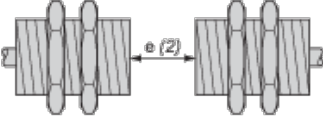
### Minimum Mounting Distances

Side by side



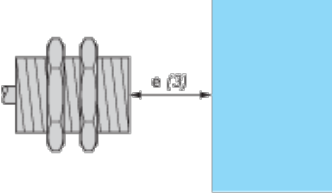
e (1) 20 mm/0.79 in  
 $\geq$

Face to face



e (2) 120 mm/4.72 in  
 $\geq$

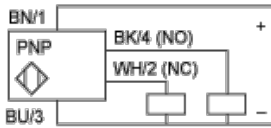
Facing a metal object



e (3) 30 mm/1.18 in.  
 $\geq$

# Wiring Schemes

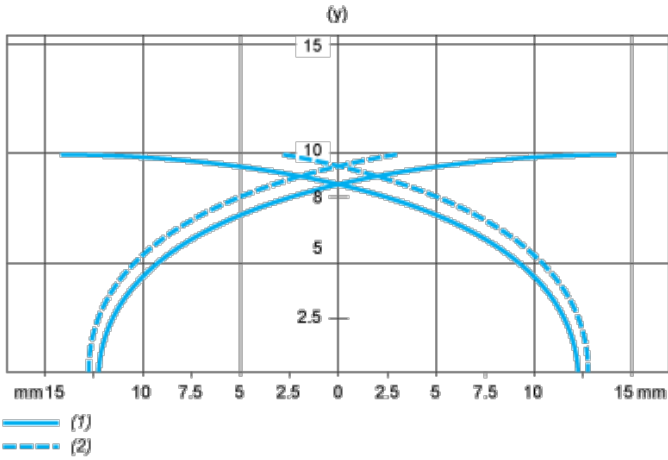
PNP 4-wire



BU : Blue  
 BN : Brown  
 BK : Black  
 WH : White

# Performance Curves

Standard Steel Target : 30x30x1 mm



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

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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