



## Main

|                               |                                                               |
|-------------------------------|---------------------------------------------------------------|
| Range of product              | OsiSense XS                                                   |
| Series name                   | Application                                                   |
| Sensor type                   | Inductive proximity sensor                                    |
| Device application            | Welding machine                                               |
| Sensor name                   | XS9                                                           |
| Sensor design                 | Cylindrical M12                                               |
| Size                          | 60 mm                                                         |
| Body type                     | Single piece body                                             |
| Enclosure material            | Stainless steel 303                                           |
| Type of output signal         | Discrete                                                      |
| Wiring technique              | 3-wire                                                        |
| [Sn] nominal sensing distance | 0.24 in (6 mm)                                                |
| Discrete output function      | 1 NO                                                          |
| Discrete output type          | PNP                                                           |
| Electrical connection         | 4 pins M12 male connector                                     |
| [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       | IP68 conforming to IEC 60529<br>IP69K conforming to DIN 40050 |

## Complementary

|                                    |                              |
|------------------------------------|------------------------------|
| Thread type                        | M12 x 1                      |
| Detection face                     | Frontal                      |
| Detector flush mounting acceptance | Flush mountable              |
| Material                           | Stainless steel 303          |
| Front material                     | Stainless steel 303          |
| Operating zone                     | > 0...0.19 in (> 0...4.8 mm) |
| Differential travel                | 1...15 % of Sr               |
| Repeat accuracy                    | <= 5 % of Sr                 |
| Output circuit type                | DC                           |
| Status LED                         | 1 LED yellow output state    |
| Supply voltage limits              | 10...30 V DC                 |
| Residual current                   | <= 0.1 mA for open state     |
| Switching frequency                | <= 15 Hz                     |
| Voltage drop                       | <= 2 V at closed state       |
| Current consumption                | <= 10 mA at no-load          |
| Delay first up                     | <= 80 ms                     |
| Delay response                     | <= 0.0001 ms                 |
| Delay recovery                     | <= 0.015 ms                  |
| Marking                            | CE                           |
| Threaded length                    | 1.61 in (41 mm)              |
| Height                             | 0.47 in (12 mm)              |
| Length                             | 2.36 in (60 mm)              |
| Product weight                     | 0.05 lb(US) (0.024 kg)       |

## Environment

|                        |       |
|------------------------|-------|
| product certifications | CULus |
|------------------------|-------|

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.

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| ambient air temperature for operation | -13...158 °F (-25...70 °C)                                              |
| ambient air temperature for storage   | -13...158 °F (-25...70 °C)                                              |
| vibration resistance                  | 25 gn amplitude = +/- 1 mm (f = 10...55 Hz) conforming to IEC 60068-2-6 |
| shock resistance                      | 30 gn 11 ms conforming to IEC 60068-2-27                                |

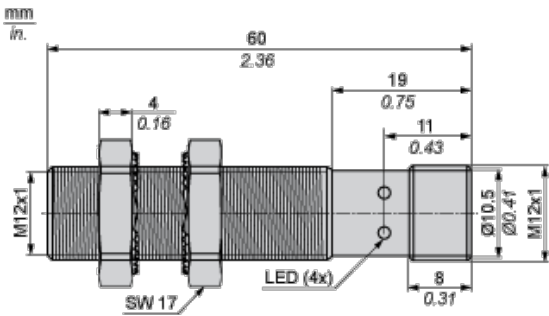
Offer Sustainability

|                                                                                                                            |                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Not Green Premium product                                                                                                  | Not Green Premium product                                                                                                  |
| Will not be Compliant                                                                                                      | Will not be Compliant                                                                                                      |
| Reference not containing SVHC above the threshold                                                                          | Reference not containing SVHC above the threshold                                                                          |
| 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

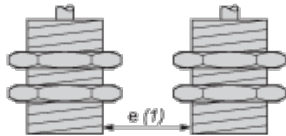
|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

Dimensions



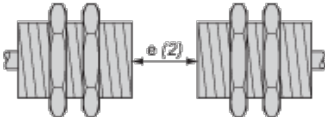
Minimum Mounting Distances in mm

Side by side



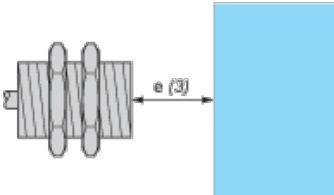
e (1) 38 mm/1.50 in.  
≥

Face to face



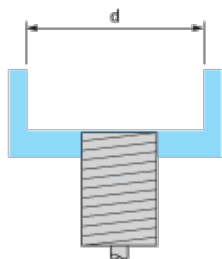
e (2) 30 mm/1.18 in.  
≥

Facing a metal object



e (3) 20 mm/0.79 in.  
≥

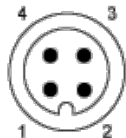
Mounted in a metal support



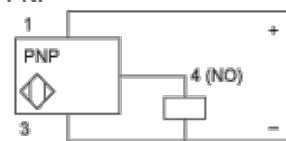
$d \geq 24 \text{ mm}/0.94 \text{ in.}$

## Wiring Schemes

M12 connector



PNP



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

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:

- Конкурентоспособные цены и скидки постоянным клиентам.
- 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.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

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



Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)