



## Main

|                                    |                                                                                 |
|------------------------------------|---------------------------------------------------------------------------------|
| Range of product                   | OsiSense XS                                                                     |
| Series name                        | Application                                                                     |
| Sensor type                        | Inductive proximity sensor                                                      |
| Device application                 | -                                                                               |
| Sensor name                        | XS6                                                                             |
| Sensor design                      | Cylindrical M12                                                                 |
| Size                               | 55 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      | 0.2 in (5 mm) non flush mountable<br>0.13 in (3.4 mm) flush mountable           |
| Discrete output function           | 1 NC                                                                            |
| Output circuit type                | DC                                                                              |
| Discrete output type               | NPN                                                                             |
| Electrical connection              | Remote male connector M12 4 pins                                                |
| Cable length                       | 0.49 ft (0.15 m)                                                                |
| [Us] rated supply voltage          | 12...24 V DC with reverse polarity protection                                   |
| Switching capacity in mA           | <= 100 mA with overload and short-circuit protection                            |
| IP degree of protection            | IP67 double insulation conforming to IEC 60529<br>IP69K conforming to DIN 40050 |

## Complementary

|                          |                                                                                                 |
|--------------------------|-------------------------------------------------------------------------------------------------|
| Thread type              | M12 x 1                                                                                         |
| Detection face           | Frontal                                                                                         |
| Front material           | PPS                                                                                             |
| Enclosure material       | Nickel plated brass                                                                             |
| Fine adjustment zone     | 0.07...0.13 in (1.7...3.4 mm) flush mountable<br>0.07...0.2 in (1.7...5 mm) non flush mountable |
| Differential travel      | 1...15% of Sr                                                                                   |
| Cable composition        | 3 x 0.34 mm <sup>2</sup>                                                                        |
| Wire insulation material | PvR                                                                                             |
| Status LED               | 1 LED (green) supply on and teach mode<br>1 LED (yellow) output state                           |
| Supply voltage limits    | 10...36 V DC                                                                                    |
| Switching frequency      | <= 1000 Hz                                                                                      |
| Voltage drop             | <= 2 V, closed state                                                                            |
| Current consumption      | <= 10 mA (no-load)                                                                              |
| Delay first up           | <= 10 ms                                                                                        |
| Delay response           | <= 0.3 ms                                                                                       |
| Delay recovery           | <= 0.7 ms                                                                                       |
| Marking                  | CE                                                                                              |
| Threaded length          | 1.65 in (42 mm)                                                                                 |
| Length                   | 2.32 in (59 mm)                                                                                 |
| Product weight           | 0.22 lb(US) (0.1 kg)                                                                            |

Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| 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                   |

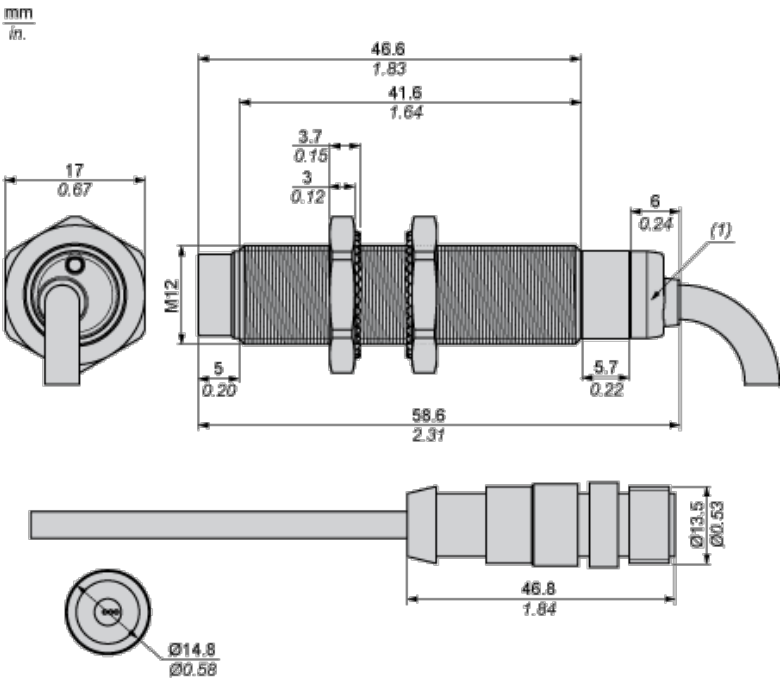
Offer Sustainability

|                                                                                                                            |                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Not Green Premium product                                                                                                  | Not Green Premium product                                                                                                  |
| Will be Compliant on 3Q2013                                                                                                | Will be Compliant on 3Q2013<br>Will be Compliant on 3Q2013                                                                 |
| 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>                              |

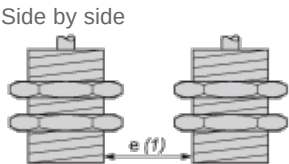
Contractual warranty

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

Dimensions

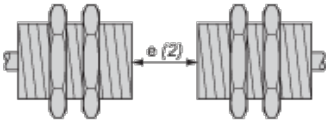


Minimum Mounting Distances in mm



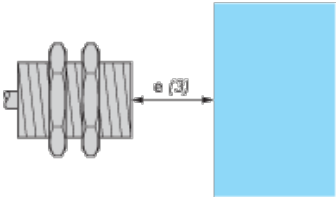
| e (1)         |        |                   |      |
|---------------|--------|-------------------|------|
| Flush mounted |        | Not flush mounted |      |
| mm            | in.    | mm                | in.  |
| ≥ 14          | ≥ 0.55 | 50                | 1.97 |

Face to face



| e (2)         |        |                   |      |
|---------------|--------|-------------------|------|
| Flush mounted |        | Not flush mounted |      |
| mm            | in.    | mm                | in.  |
| ≥ 50          | ≥ 1.97 | 100               | 3.94 |

Facing a metal object



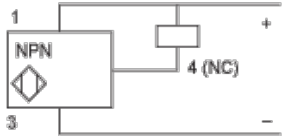
| e (3) |        |
|-------|--------|
| mm    | in.    |
| ≥ 3.4 | ≥ 0.13 |

Wiring Schemes

M12 connector



NPN



- 1 : (+)
- 2 : NC Output
- 3 : (-)
- 4 : Not connected

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

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

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

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

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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