



Main

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|-------------------------------|-------------------------------|
| Range of product | OsiSense XU |
| Series name | Application material handling |
| Electronic sensor type | Photo-electric sensor |
| Sensor name | XU2 |
| Sensor design | Cylindrical M18 |
| Detection system | Thru beam |
| Material | Metal |
| Line of sight type | Axial |
| Type of output signal | Analogue Discrete |
| Supply circuit type | DC |
| Wiring technique | 3-wire |
| Discrete output type | PNP |
| Discrete output function | 1 NO |
| Analogue output range | 4...20 mA |
| Electrical connection | 1 male connector M12, 4 pins |
| Product specific application | - |
| Emission | Infrared thru beam |
| [Sn] nominal sensing distance | 164.04 ft (50 m) thru beam |

Complementary

| | |
|---------------------------|---|
| Enclosure material | Nickel plated brass |
| Lens material | PMMA |
| Maximum sensing distance | 229.66 ft (70 m) |
| Output type | Solid state |
| Add on output | With analogue output |
| Add on input | Breaking test (transmitter) |
| Status LED | 1 LED (green) supply on 1 LED (yellow) operation |
| [Us] rated supply voltage | 12...24 V DC with reverse polarity protection |
| Supply voltage limits | 10...30 V DC |
| Switching capacity in mA | <= 100 mA (overload and short-circuit protection) |
| Switching frequency | <= 30 Hz |
| Voltage drop | <= 1.5 V (closed state) |
| Current consumption | <= 55 mA (no-load) |
| Delay first up | <= 50 ms |
| Delay response | <= 15 ms |
| Delay recovery | <= 15 ms |
| Setting-up | Sensitivity adjustment |
| Diameter | 0.71 in (18 mm) |
| Length | 3.74 in (95 mm) |
| Product weight | 0.34 lb(US) (0.155 kg) |
| Kit composition | Transmitter + receiver |

Environment

| | |
|---------------------------------------|----------------------------|
| product certifications | CE CSA UL |
| ambient air temperature for operation | -13...131 °F (-25...55 °C) |

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 storage | -40...158 °F (-40...70 °C) |
| vibration resistance | 25 gn, amplitude = +/- 2 mm (f = 10...55 Hz) conforming to IEC 60068-2-6 |
| shock resistance | 30 gn (duration = 11 ms) conforming to IEC 60068-2-27 |
| IP degree of protection | IP67 conforming to IEC 60529 |

Offer Sustainability

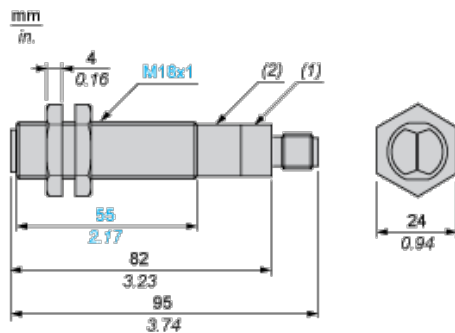
| | |
|--|--|
| Not Green Premium product | Not Green Premium product |
| Compliant - since 0924 - Schneider Electric declaration of conformity | Compliant - since 0924 - Schneider Electric declaration of conformity |
| Reference not containing SVHC above the threshold | Reference not containing SVHC 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 www.p65warnings.ca.gov | For more information go to www.p65warnings.ca.gov |

Contractual warranty

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

Dimensions

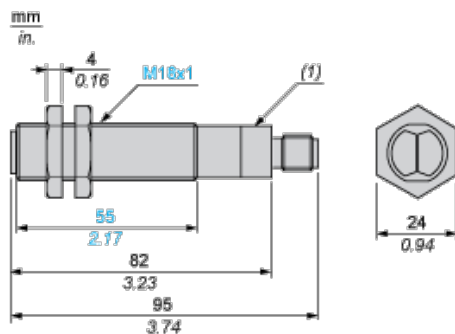
Receiver dimensions



(1) LEDs

(2) Potentiometer

Transmitter dimensions



(1) LEDs

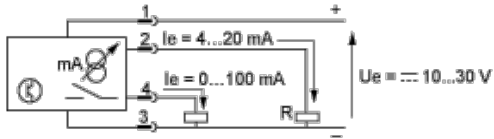
Mounting and Clearance

Fixing nut tightening torque: 15 N.m

Connector tightening torque: 2 N.m

Wiring Schemes

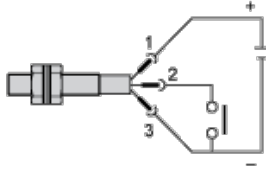
Receiver



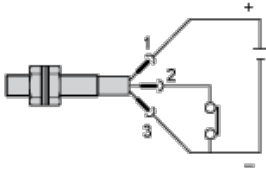
$R_{max} < 800 \Omega$ ($U_e = 24 V$), $< 300 \Omega$ ($U_e = 12 V$)

Beam Break Test (only on Transmitter)

Beam made

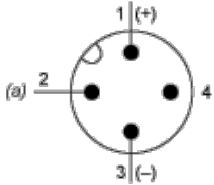


Beam broken



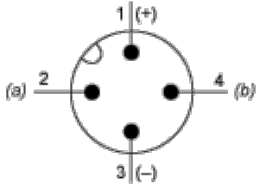
Sensor Connector Pin View

Transmitter



(a) Test

Receiver

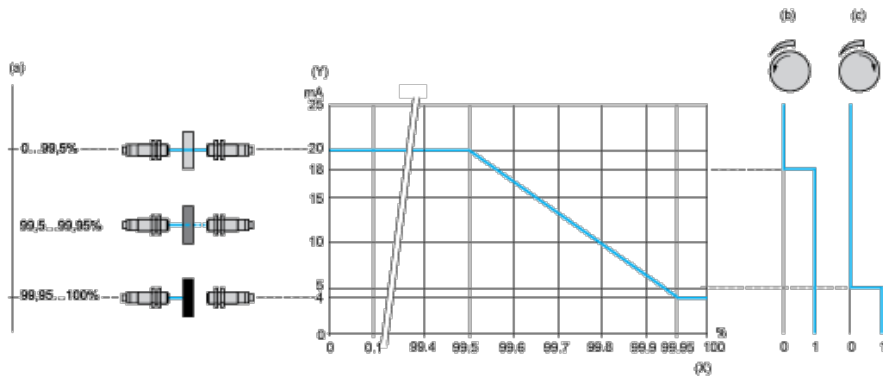


(a) Analogue output

(b) Solid-state output

Operation, Settings

Type, opacity of object Analogue output curve Switching level of digital solid-state PNP output



(a) Degree of opacity of object

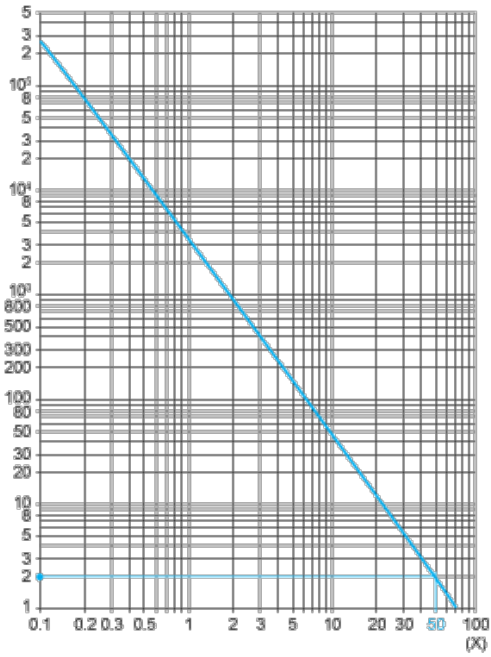
(b) Potentiometer set at minimum

(c) Potentiometer set at maximum

(y) Output current

(x) Degree of opacity of object

Type, opacity of object Analogue output curve Switching level of digital solid-state PNP output



- (a) Degree of opacity of object
- (b) Potentiometer set at minimum
- (c) Potentiometer set at maximum
- (y) Output current
- (x) Degree of opacity of object

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

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9