



## Main

|                               |                                                                                                                               |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Range of product              | OsiSense XU                                                                                                                   |
| Series name                   | Application                                                                                                                   |
| Electronic sensor type        | Photo-electric sensor                                                                                                         |
| Sensor name                   | XUY                                                                                                                           |
| Sensor design                 | Fork                                                                                                                          |
| Detection system              | Thru beam                                                                                                                     |
| Emission                      | Infrared laser, modulated - class 1 IEC 825-1                                                                                 |
| Passage width                 | 3.15 in (80 mm)                                                                                                               |
| Passage depth                 | 3.74 in (95 mm)                                                                                                               |
| Material                      | Metal/plastic                                                                                                                 |
| Supply circuit type           | DC                                                                                                                            |
| Wiring technique              | 4-wire                                                                                                                        |
| Discrete output type          | PNP and NPN                                                                                                                   |
| Discrete output function      | 1 NO or 1 NC programmable                                                                                                     |
| Electrical connection         | 1 male connector M8, 4 pins                                                                                                   |
| Product specific application  | Detection of reference marks<br>Detection on vibrating rail<br>Detection on small conveyor<br>Detection of transparent object |
| [Sn] nominal sensing distance | 3.15 in (80 mm)                                                                                                               |

## Complementary

|                                       |                                                                               |
|---------------------------------------|-------------------------------------------------------------------------------|
| Enclosure material                    | Painted aluminium and polyamide/glass                                         |
| Keypad type                           | Yellow                                                                        |
| Minimum object diameter for detection | 0.00 in (0.05 mm)                                                             |
| Type of output signal                 | Discrete                                                                      |
| Output type                           | Solid state                                                                   |
| Status LED                            | Adjustment mode and keypad locking 1 LED red)<br>Output state: 1 LED (yellow) |
| [Us] rated supply voltage             | 12...24 V DC reverse polarity protection                                      |
| Supply voltage limits                 | 10...30 V DC                                                                  |

|                          |                                               |
|--------------------------|-----------------------------------------------|
| Switching capacity in mA | 100 mA overload and short-circuit protection) |
| Switching frequency      | 10 kHz                                        |
| Maximum voltage drop     | <2 V closed state)                            |
| Current consumption      | 40 mA no-load                                 |
| Load capacitance         | 330 nF                                        |
| Time response            | -20...20 µs                                   |
| Setting-up               | Self teaching                                 |
| Net weight               | 0.42 lb(US) (0.19 kg)                         |

## Environment

|                                       |                                                       |
|---------------------------------------|-------------------------------------------------------|
| Product certifications                | CE<br>CULus                                           |
| Ambient air temperature for operation | -4...140 °F (-20...60 °C)                             |
| Ambient air temperature for storage   | -22...176 °F (-30...80 °C)                            |
| Immunity to ambient light             | 10000 lux natural light<br>5000 lux incandescent bulb |
| Vibration resistance                  | 7 gn +/- 0.75 mm 10...55 Hz) IEC 60068-2-6            |
| Shock resistance                      | 30 gn 11 ms) IEC 60068-2-27                           |
| IP degree of protection               | IP65 IEC 60529                                        |

## Packing Units

|                              |                  |
|------------------------------|------------------|
| Unit Type of Package 1       | PCE              |
| Number of Units in Package 1 | 1                |
| Package 1 Weight             | 3.88 oz (110 g)  |
| Package 1 Height             | 0.59 in (1.5 cm) |
| Package 1 width              | 6.30 in (16 cm)  |
| Package 1 Length             | 5.12 in (13 cm)  |

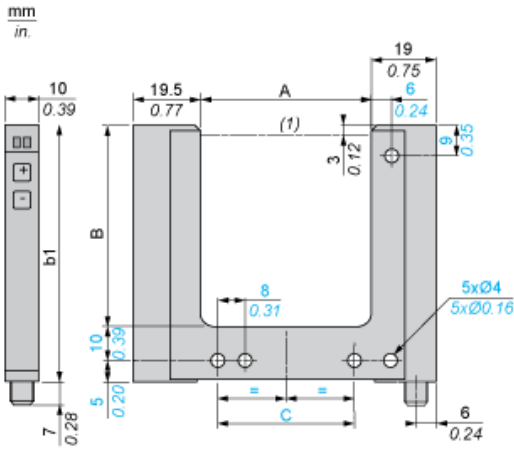
## Offer Sustainability

|                            |                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------|
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                 |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes                                                                                               |
| RoHS exemption information | <a href="#">Yes</a>                                                                               |

## Contractual warranty

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

Dimensions



(1) Optical axis

Dimensions in mm

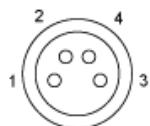
| A  | B  | b1  | C  |
|----|----|-----|----|
| 80 | 95 | 110 | 70 |

Dimensions in in.

| A    | B    | b1   | C    |
|------|------|------|------|
| 3.15 | 3.74 | 4.33 | 2.76 |

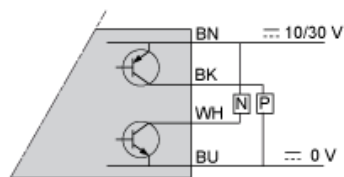
## Wiring Schemes

### M8 Connector



- 1 : BN: Brown
- 2 : WH: White
- 3 : BU: Blue
- 4 : BK: Black

### 4-Wire, PNP/NPN Outputs



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