

## 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) conforming to 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 of transparent object<br>Detection on vibrating rail<br>Detection on small conveyor |
| [Sn] nominal sensing distance | 3.15 in (80 mm)                                                                                                               |

## Complementary

|                                       |                                                                               |
|---------------------------------------|-------------------------------------------------------------------------------|
| Enclosure material                    | Painted aluminium and polyamide/glass                                         |
| Keypad type                           | Green                                                                         |
| Minimum object diameter for detection | 0 in (0.05 mm)                                                                |
| Type of output signal                 | Discrete                                                                      |
| Output type                           | Solid state                                                                   |
| Status LED                            | 1 LED (red) adjustment mode and keypad locking<br>1 LED (yellow) output state |
| [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                   | 10 kHz                                                                        |
| Voltage drop                          | < 2 V (closed state)                                                          |
| Current consumption                   | 40 mA (no-load)                                                               |
| Load capacitance                      | 330 nF                                                                        |
| Time response                         | -20...20 µs                                                                   |
| Setting-up                            | Sensitivity by numeric potentiometer                                          |
| Product 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 with natural light<br>5000 lux with incandescent bulb            |
| vibration resistance                  | 7 gn, amplitude = +/- 0.75 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 | IP65 conforming to IEC 60529 |
|-------------------------|------------------------------|

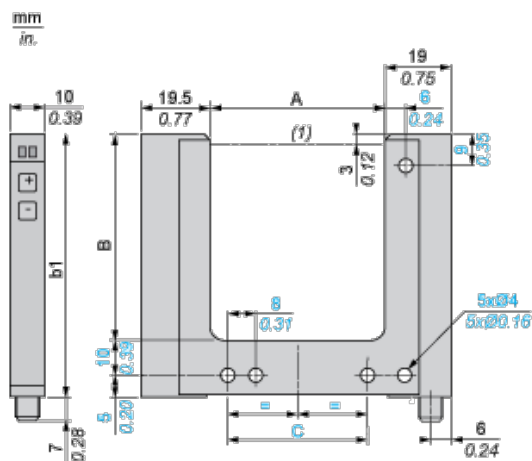
## Offer Sustainability

|                                                                                                                            |                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Not Green Premium product                                                                                                  | Not Green Premium product                                                                                                  |
| Compliant - since 0727 - Schneider Electric declaration of conformity                                                      | Compliant - since 0727 - Schneider Electric declaration of conformity                                                      |
| 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



(1) Optical axis

Dimensions in mm

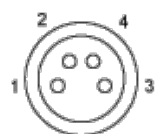
| A  | B  | b1  | C  |
|----|----|-----|----|
| 80 | 95 | 110 | 70 |

Dimensions in in.

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

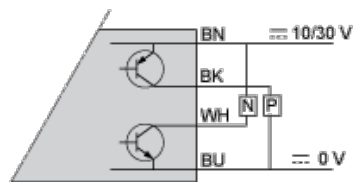
## Wiring Schemes

### 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