

# XUYFNEP40120

photo-electric sensor - XUY - fork - pot +/- -  
120X42mm - 12..24VDC - M8



## 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 LED, modulated                                                                                                                        |
| Passage width                 | 120 mm                                                                                                                                         |
| Passage depth                 | 42 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 labels<br>Detection of double sheet<br>Detection of reference marks<br>Detection on small conveyor<br>Detection on vibrating rail |
| [Sn] nominal sensing distance | 120 mm                                                                                                                                         |

## Complementary

|                                       |                                                                                 |
|---------------------------------------|---------------------------------------------------------------------------------|
| Enclosure material                    | Painted aluminium and polyamide/glass                                           |
| Keypad type                           | Green                                                                           |
| Minimum object diameter for detection | 0.2 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 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                                                                          |
| Maximum 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                                            |
| Net weight                            | 0.19 kg                                                                         |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products 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.

## Environment

|                                       |                                                                            |
|---------------------------------------|----------------------------------------------------------------------------|
| Product certifications                | CE<br>CULus                                                                |
| Ambient air temperature for operation | -20...60 °C                                                                |
| Ambient air temperature for storage   | -30...80 °C                                                                |
| Immunity to ambient light             | 10000 Lux natural light<br>5000 lux 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                                               |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Weight             | 98 g     |
| Package 1 Height             | 1.8 cm   |
| Package 1 width              | 13.2 cm  |
| Package 1 Length             | 16.4 cm  |
| Unit Type of Package 2       | S01      |
| Number of Units in Package 2 | 12       |
| Package 2 Weight             | 1.393 kg |
| Package 2 Height             | 15 cm    |
| Package 2 width              | 15 cm    |
| Package 2 Length             | 40 cm    |

## Offer Sustainability

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

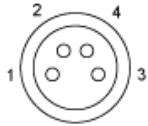
| A   | B  | b1 | C   |
|-----|----|----|-----|
| 120 | 42 | 57 | 110 |

Dimensions in in.

| A    | B    | b1   | C    |
|------|------|------|------|
| 4.72 | 1.65 | 2.24 | 4.33 |

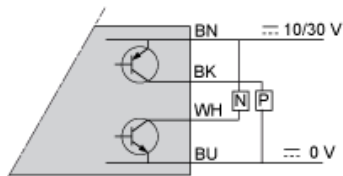
## Wiring Schemes

### 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