

# XUYFALNEP40120

photo-electric sensor - XUY - fork - laser -  
teach - 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 laser, modulated - class 1 conforming to IEC 825-1                                                                   |
| 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 reference marks<br>Detection on vibrating rail<br>Detection of transparent object<br>Detection on small conveyor |
| [Sn] nominal sensing distance | 120 mm                                                                                                                        |

## Complementary

|                                       |                                                                                 |
|---------------------------------------|---------------------------------------------------------------------------------|
| Enclosure material                    | Painted aluminium and polyamide/glass                                           |
| Keypad type                           | Yellow                                                                          |
| Minimum object diameter for detection | 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 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                            | Self teaching                                                                   |
| Net weight                            | 0.19 kg                                                                         |

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## Environment

|                                       |                                                                            |
|---------------------------------------|----------------------------------------------------------------------------|
| Product certifications                | CULus<br>CE                                                                |
| 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             | 100 g  |
| Package 1 Height             | 1.5 cm |
| Package 1 width              | 16 cm  |
| Package 1 Length             | 13 cm  |

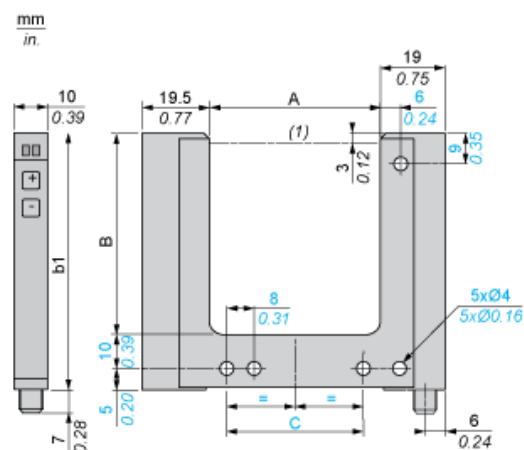
## Offer Sustainability

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