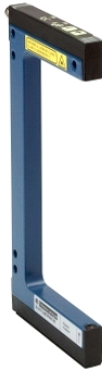


XUYFLNEP60080

photo-electric sensor - XUY - fork - laser - pot +/- - 80X59mm - 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 | 80 mm |
| Passage depth | 59 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 Detection of transparent object Detection on vibrating rail Detection on small conveyor |
| [Sn] nominal sensing distance | 80 mm |

Complementary

| | |
|---------------------------------------|---|
| Enclosure material | Painted aluminium and polyamide/glass |
| Keypad type | Green |
| Minimum object diameter for detection | 0.05 mm |
| Type of output signal | Discrete |
| Output type | Solid state |
| Status LED | 1 LED (red) for adjustment mode and keypad locking 1 LED (yellow) for 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 | 0.19 kg |

Environment

| | |
|---------------------------------------|--|
| product certifications | CE CULus |
| ambient air temperature for operation | -20...60 °C |
| ambient air temperature for storage | -30...80 °C |
| immunity to ambient light | 10000 lux with natural light 5000 lux with incandescent bulb |
| vibration resistance | 7 gn, amplitude = +/- 0.75 mm (f = 10...55 Hz) conforming to IEC 60068-2-6 |

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.

| | |
|-------------------------|---|
| shock resistance | 30 gn (duration = 11 ms) conforming to IEC 60068-2-27 |
| IP degree of protection | IP65 conforming to IEC 60529 |

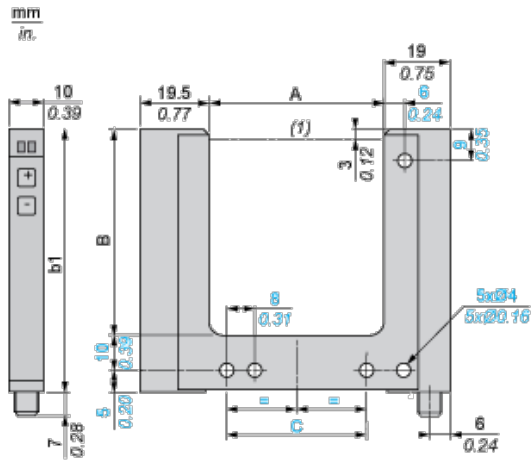
Offer Sustainability

| | |
|--------------------------|---|
| Sustainable offer status | Not Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0727 - Schneider Electric declaration of conformity |

Contractual warranty

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

Dimensions



(1) Optical axis

Dimensions in mm

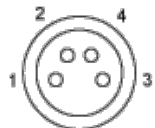
| A | B | b1 | C |
|----|----|----|----|
| 80 | 59 | 74 | 70 |

Dimensions in in.

| A | B | b1 | C |
|------|------|------|------|
| 3.15 | 2.32 | 2.91 | 2.76 |

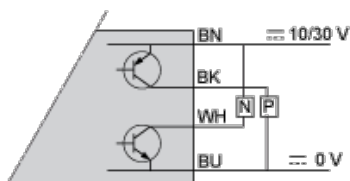
Wiring Schemes

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