Product datasheet Characteristics

XUYFLNEP40002



Main

| 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 | 0.08 in (2 mm) |
| Passage depth | 1.65 in (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 Detection of transparent object Detection on vibrating rail Detection on small conveyor |
| [Sn] nominal sensing distance | 0.08 in (2 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 1 LED (yellow) output state | |
| [Us] rated supply voltage | 1224 V DC with reverse polarity protection | |
| Supply voltage limits | 1030 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 | -2020 μs | |
| Setting-up | Sensitivity by numeric potentiometer | |
| Product weight | 0.42 lb(US) (0.19 kg) | |

Environment

| product certifications | CE CULus |
|---------------------------------------|---|
| ambient air temperature for operation | -4140 °F (-2060 °C) |
| ambient air temperature for storage | -22176 °F (-3080 °C) |
| immunity to ambient light | 10000 lux with natural light 5000 lux with incandescent bulb |
| vibration resistance | 7 gn, amplitude = +/- 0.75 mm (f = 1055 Hz) conforming to IEC 60068-2-6 |
| shock resistance | 30 gn (duration = 11 ms) conforming to IEC 60068-2-27 |



IP65 conforming to IEC 60529

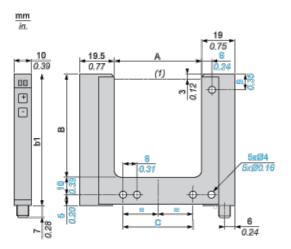
Offer Sustainability

| 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 WARNING: This product can expose you to chemicals including: including: | | | |
| Diisononyl phthalate (DINP), which is known to the State Diisononyl phthalate (DINP), which is known to the State of California to cau of California to cause cancer, and cancer, and | | | |
| Di-isodecyl phthalate (DIDP), which is known to the Stat of California to cause birth defects or other reproductive harm. | eDi-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. | | |
| For more information go to www.p65warnings.ca.gov | For more information go to www.p65warnings.ca.gov | | |

Contractual warranty

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

Dimensions



(1) Optical axis

Dimensions in mm

| А | В | b1 | С | | |
|-------------------|----|----|----|--|--|
| 2 | 42 | 57 | 14 | | |
| Dimensions in in. | | | | | |

| А | в | b1 | С |
|------|------|------|------|
| 0.08 | 1.65 | 2.24 | 0.55 |

Wiring Schemes

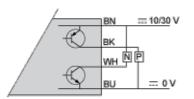
M8 Connector



- 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

