



## Main

|                               |                                                                          |
|-------------------------------|--------------------------------------------------------------------------|
| Range of product              | OsiSense XU                                                              |
| Series name                   | Application material handling                                            |
| Electronic sensor type        | Photo-electric sensor                                                    |
| Sensor name                   | XUY                                                                      |
| Sensor design                 | Compact 50 x 50                                                          |
| Detection system              | Diffuse                                                                  |
| Material                      | Plastic                                                                  |
| Supply circuit type           | DC                                                                       |
| Wiring technique              | 4-wire                                                                   |
| Analogue output range         | 0...10 V                                                                 |
| Electrical connection         | 1 male connector M12, 4 pins                                             |
| Product specific application  | Measuring thickness of mechanical parts<br>Position control of robot arm |
| Emission                      | Red laser, pulsed (class 1), wavelength: 650 nm conforming to IEC 825-1  |
| [Sn] nominal sensing distance | 40...60 mm                                                               |

## Complementary

|                           |                                                      |
|---------------------------|------------------------------------------------------|
| Enclosure material        | ABS, anti-shock                                      |
| Pulse frequency           | 6 kHz                                                |
| Linearity                 | < 1 %                                                |
| Spot diameter             | 1 mm at 50 mm                                        |
| Spot dimension            | Ø 1 mm at 50 mm                                      |
| Resolution                | 7 µm                                                 |
| Status LED                | 1 LED (green) for supply on<br>1 LED (red) for dirty |
| [Us] rated supply voltage | 24 V DC with reverse polarity protection             |
| Supply voltage limits     | 18...28 V DC                                         |
| Switching capacity in mA  | 3 mA (overload and short-circuit protection)         |
| Switching frequency       | < 40 Hz                                              |
| Voltage drop              | <= 2.4 V (closed state)                              |
| Current consumption       | 35 mA (no-load)                                      |
| Delay response            | 30 ms for output circuit                             |

|                |                         |
|----------------|-------------------------|
| Setting-up     | Parametering by buttons |
| Product weight | 0.057 kg                |

## Environment

|                                       |                                                                           |
|---------------------------------------|---------------------------------------------------------------------------|
| Product certifications                | CE                                                                        |
| Ambient air temperature for operation | 0...45 °C                                                                 |
| Ambient air temperature for storage   | -20...60 °C                                                               |
| Immunity to ambient light             | 5000 lux with natural light                                               |
| Vibration resistance                  | 7 gn, amplitude = +/- 1.5 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               | IP67 conforming to IEC 60529                                              |

## Contractual warranty

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