



## Main

|                               |   |
|-------------------------------|---|
| Range of product              | OsiSense XU   |
| Series name                   | Application material handling<br>Application assembly                             |
| Electronic sensor type        | Photo-electric sensor   |
| Sensor name                   | XUK   |
| Sensor design                 | Compact 50 x 50   |
| Detection system              | Diffuse with background suppression   |
| Material                      | Plastic   |
| Type of output signal         | Discrete  |
| Wiring technique              | 4-wire  |
| Discrete output type          | PNP or NPN  |
| Discrete output function      | 1 NO or 1 NC programmable   |
| Electrical connection         | 1 male connector M12, 4 pins  |
| Product specific application  | Distance measurement on object<br>Suppression of a background                     |
| Emission                      | Red laser diffuse with background suppression (class 1) conforming to IEC 60825-1 |
| [Sn] nominal sensing distance | 5 m diffuse with background suppression   |

## Complementary

|                           |  |
|---------------------------|--|
| Enclosure material        | ABS/PC   |
| Lens material             | PMMA   |
| Maximum sensing distance  | 5 m diffuse with background suppression  |
| Output type               | Solid state  |
| Add on input              | External teach   |
| Wire insulation material  | PVC  |
| Status LED                | 1 LED (yellow) for output state<br>1 LED (green/yellow) for supply on/output state |
| [Us] rated supply voltage | 12...24 V DC reverse polarity protection   |
| Supply voltage limits     | 10...30 V DC   |
| Switching capacity in mA  | <= 100 mA (overload and short-circuit protection)                                  |
| Switching frequency       | <= 250 Hz  |
| Voltage drop              | <= 1.5 V (closed state)  |

|                     |                                       |
|---------------------|---------------------------------------|
| Current consumption | <= 60 mA (no-load)                    |
| Delay first up      | < 300 ms                              |
| Delay response      | < 2 ms                                |
| Delay recovery      | < 2 ms                                |
| Setting-up          | Using teach button or remote teaching |
| Depth               | 50 mm                                 |
| Height              | 50 mm                                 |
| Width               | 23 mm                                 |
| Product weight      | 0.035 kg                              |

## Environment

|                                       |   |
|---------------------------------------|---|
| Product certifications                | CE<br>Ecolab<br>cULus   |
| Ambient air temperature for operation | -40...60 °C<br>-20...50 °C, UL certified                                  |
| Ambient air temperature for storage   | -40...80 °C   |
| 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<br>IP69K conforming to DIN 40050             |

## Offer Sustainability

|                        |  |
|------------------------|--|
| RoHS (date code: YYWW) | Will not be compliant<br>Will not be compliant |
|------------------------|--|

## Contractual warranty

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