



## Main

|                               |  |
|-------------------------------|--|
| Range of product              | OsiSense XU                                |
| Series name                   | Application food and beverage              |
| Electronic sensor type        | Photo-electric sensor                      |
| Sensor name                   | XU9  |
| Sensor design                 | Cylindrical M18                            |
| Detection system              | Polarised reflex                           |
| Material                      | Stainless steel                            |
| Line of sight type            | Axial                                      |
| Type of output signal         | Discrete                                   |
| Supply circuit type           | DC   |
| Wiring technique              | 3-wire                                     |
| Discrete output type          | NPN  |
| Discrete output function      | 1 NO or 1 NC programmable                  |
| Electrical connection         | 1 male connector M12, 4 pins               |
| Product specific application  | -  |
| Emission                      | Red polarised reflex                       |
| [Sn] nominal sensing distance | 2 m polarised reflex need reflector XUZC50 |

## Complementary

|                           |  |
|---------------------------|--|
| Enclosure material        | Stainless steel : 304 CU                                       |
| Lens material             | PMMA   |
| Maximum sensing distance  | 3 m  |
| Output type               | Solid state  |
| Add on output             | Without  |
| Add on input              | Programmation  |
| Cable composition         | 4 x 0.34 mm <sup>2</sup>                                       |
| Wire insulation material  | PvR  |
| Cable outer diameter      | 4.2 mm   |
| Status LED                | 1 LED (green) for supply on<br>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       | <= 500 Hz  |
| Maximum voltage drop      | <1.5 V (closed state)  |
| Current consumption       | <= 30 mA no-load   |
| Maximum delay first up    | 15 ms  |
| Maximum delay response    | 1 ms   |
| Maximum delay recovery    | 1 ms   |
| Setting-up                | Without sensitivity adjustment                                 |
| Diameter                  | 18 mm  |
| Length                    | 64 mm  |
| Net weight                | 0.085 kg   |
| Kit composition           | Sensor<br>Reflector XUZC50                                     |

## Environment

|                                       |  |
|---------------------------------------|--|
| Product certifications                | UL<br>CE<br>CSA  |
| Ambient air temperature for operation | -25...55 °C  |
| Ambient air temperature for storage   | -40...70 °C  |
| Vibration resistance                  | 25 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   |

## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Weight | 0.088 kg |
| Package 1 Height | 0.450 dm |
| Package 1 width  | 0.820 dm |
| Package 1 Length | 0.720 dm |

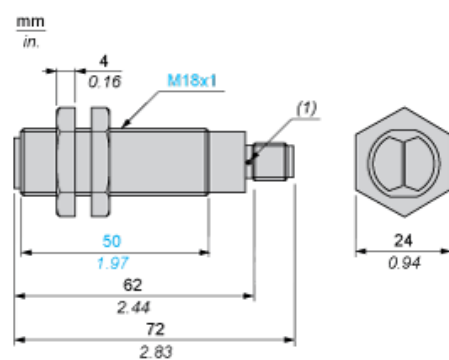
## Offer Sustainability

|                            |  |
|----------------------------|--|
| Sustainable offer status   | Green Premium product  |
| 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>  |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>  |
| Circularity Profile        | <a href="#">End of Life Information</a>  |

## Contractual warranty

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

## Dimensions



(1) LED

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Mounting and Clearance

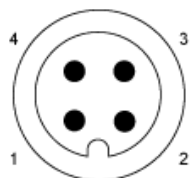
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Fixing nut tightening torque: < 15 N.m

Connector tightening torque: 2 N.m

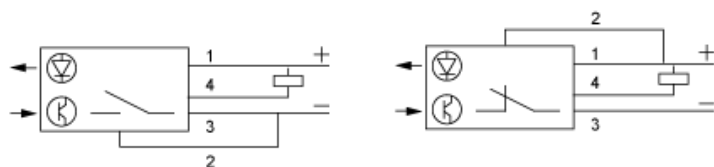
## Wiring Schemes

### M12 Connector



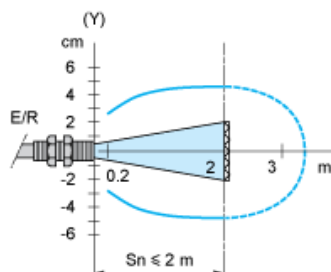
- 3 : (-)
- 1 : (+)
- 4 : OUT/Output
- 2 : Prog

### 3-wire, NPN NO or NC Programmable Function



## Detection Curves

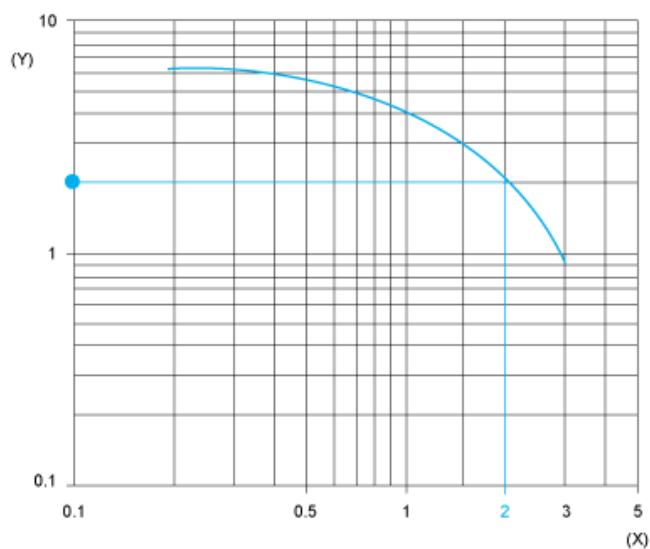
### Polarised Reflex System with Reflector XUZC50



(y) Ø of beam

### Excess Gain Curves (Ambient Temperature: + 25° C)

#### Polarised Reflex System with Reflector XUZC50



(y) Gain

(x) Distance (m)