

Photoelectric sensors XU, XUBT, polarised,  
90°, Sn 1.4 m, 12...24 VDC, M12



## Main

|                               |  |
|-------------------------------|--|
| Range of product              | Telemecanique Photoelectric sensors XU |
| Series name                   | Application packaging                  |
| Electronic sensor type        | Photo-electric sensor                  |
| Product specific application  | Detection of transparent object        |
| Sensor name                   | XUBT                                   |
| Sensor design                 | Cylindrical M18                        |
| Detection system              | Reflex                                 |
| Material                      | Plastic                                |
| Line of sight type            | 90° lateral                            |
| Supply circuit type           | DC                                     |
| Wiring technique              | 3-wire                                 |
| Discrete output type          | PNP                                    |
| Discrete output function      | 1 NO or 1 NC programmable              |
| Electrical connection         | 1 male connector M12, 4 pins           |
| Emission                      | Coaxial polarised red reflex           |
| [Sn] nominal sensing distance | 0...0.8 m with reflector XUZ C50/C50HP |

## Complementary

|                           |  |
|---------------------------|--|
| Kit composition           | Reflector XUZC50HP<br>Sensor   |
| Enclosure material        | PBT  |
| Lens material             | PMMA   |
| Beam angle                | 1.5 °  |
| Blind zone                | 0 mm   |
| Spot diameter             | 37 mm  |
| Type of output signal     | Discrete   |
| Output type               | Solid state  |
| Status LED                | Supply on: 1 LED (green)<br>Stability: 1 LED (red)<br>Output state: 1 LED (yellow) |
| [Us] rated supply voltage | 12...24 V DC with reverse polarity protection                                      |
| Supply voltage limits     | 10...32 V DC   |
| Switching capacity in mA  | 100 mA (overload and short-circuit protection)                                     |
| Switching frequency       | 1000 Hz  |
| Maximum voltage drop      | <1.5 V (closed state)  |
| Current consumption       | 45 mA no-load  |
| Maximum delay first up    | 200 ms   |
| Maximum delay response    | 500 ms   |
| Maximum delay recovery    | 500 ms   |
| Net weight                | 0.048 kg   |

## Environment

|                                       |   |
|---------------------------------------|---|
| Product certifications                | CE[RETURN]CSA[RETURN]UL   |
| Ambient air temperature for operation | 0...55 °C   |
| Ambient air temperature for storage   | -40...70 °C   |
| Vibration resistance                  | 7 gn, amplitude = +/- 1 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               | IP65 conforming to IEC 60529 (double insulation)<br>IP67 conforming to IEC 60529 (double insulation)<br>IP69K conforming to DIN 40050 (double insulation) |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 3.500 cm  |
| Package 1 Width              | 7.000 cm  |
| Package 1 Length             | 13.000 cm |
| Package 1 Weight             | 63.000 g  |
| Unit Type of Package 2       | S02       |
| Number of Units in Package 2 | 35        |
| Package 2 Height             | 15.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 2.430 kg  |

## Offer Sustainability

|  |   |
|--|---|
| Sustainable offer status                   | Green Premium product   |
| California proposition 65                  | WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| For all Reach Rohs enquiries contact us at | <a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>  |

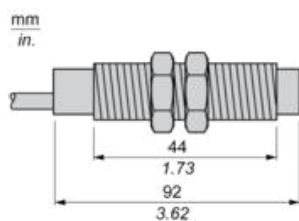
## Contractual warranty

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

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Dimensions

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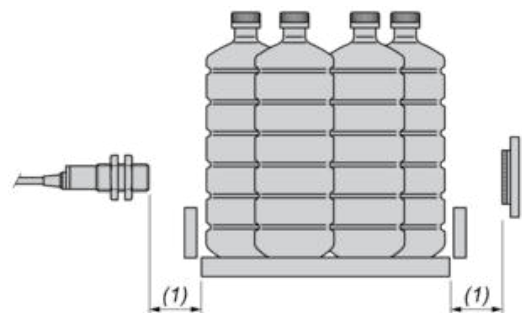


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## Setting-up

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### Recommended Distances and Application Restraints



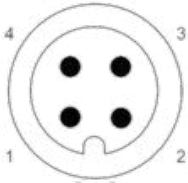
(1) Blind zone : 0 m

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## Wiring Schemes

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### M12 Connector



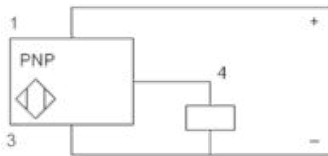
3 : (-)

1 : (+)

4 : OUT/Output

2 : Not connected

### PNP



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## Detection Curves

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Line of Sight 90° to Case Axis

