



Main

|                               |   |
|-------------------------------|---|
| Range of product              | Telemecanique Photoelectric sensors XU  |
| Series name                   | General purpose single mode   |
| Electronic sensor type        | Photo-electric sensor   |
| Sensor name                   | XUX   |
| Sensor design                 | Compact 92 x 71   |
| Detection system              | Polarised reflex  |
| Material                      | Plastic   |
| Type of output signal         | Discrete  |
| Supply circuit type           | DC  |
| Wiring technique              | 3-wire  |
| Discrete output type          | PNP   |
| Discrete output function      | 1 NC  |
| Electrical connection         | Screw-clamp terminals, 1 x 1.5 mm <sup>2</sup> or 1 x 0.75 mm <sup>2</sup> with adaptor |
| Product specific application  | -   |
| Emission                      | Red polarised reflex  |
| [Sn] nominal sensing distance | 11 m polarised reflex need reflector XUZC50   |

Complementary

|                                |  |
|--------------------------------|--|
| Enclosure material             | PBT  |
| Lens material                  | PMMA   |
| Maximum sensing distance       | 15 m polarised reflex  |
| Output type                    | Relay  |
| Cable entry                    | 1 entry for M16 x 1.5 cable gland, cable outer diameter: 7...10 mm   |
| Status LED                     | 1 LED (yellow) for output state<br>1 LED (red) for instability<br>1 LED (green) for supply   |
| [Us] rated supply voltage      | 24...240 V AC/DC   |
| Switching capacity in mA       | 3 A (cos φ = 1 for 0.5 million cycles at 1 operating cycle per second at 250 V)<br>0.5 A (cos φ = 0.4 for 0.5 million cycles at 1 operating cycle per second at 250 V) |
| Switching frequency            | <= 20 Hz   |
| Maximum voltage drop           | <1.5 V (closed state)  |
| Current consumption            | <= 35 mA no-load   |
| Maximum power consumption in W | 2 W AC/DC  |
| Maximum delay first up         | 60 ms  |
| Maximum delay response         | 25 ms  |
| Maximum delay recovery         | 25 ms  |
| Setting-up                     | Sensitivity adjustment   |
| Electrical durability          | 500000 Cycles, cos f = 1, operating rate <60 cyc/mn at 250 V<br>500000 cycles, cos f = 0.4, operating rate <60 cyc/mn at 250 V   |
| Depth                          | 77 mm  |
| Height                         | 92 mm  |
| Width                          | 31 mm  |
| Net weight                     | 0.2 kg   |

## Environment

|                                       |  |
|---------------------------------------|--|
| Product certifications                | UL[RETURN]CE[RETURN]CSA  |
| Ambient air temperature for operation | -25...55 °C  |
| Ambient air temperature for storage   | -40...70 °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 double insulation conforming to IEC 60529<br>IP65 double insulation conforming to IEC 60529 |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 4.2 cm   |
| Package 1 Width              | 9.5 cm   |
| Package 1 Length             | 13.0 cm  |
| Package 1 Weight             | 190.0 g  |
| Unit Type of Package 2       | S01      |
| Number of Units in Package 2 | 11       |
| Package 2 Height             | 15.0 cm  |
| Package 2 Width              | 15.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 2.315 kg |
| Unit Type of Package 3       | S02      |
| Number of Units in Package 3 | 22       |
| Package 3 Height             | 15.0 cm  |
| Package 3 Width              | 30.0 cm  |
| Package 3 Length             | 40.0 cm  |
| Package 3 Weight             | 4.525 kg |

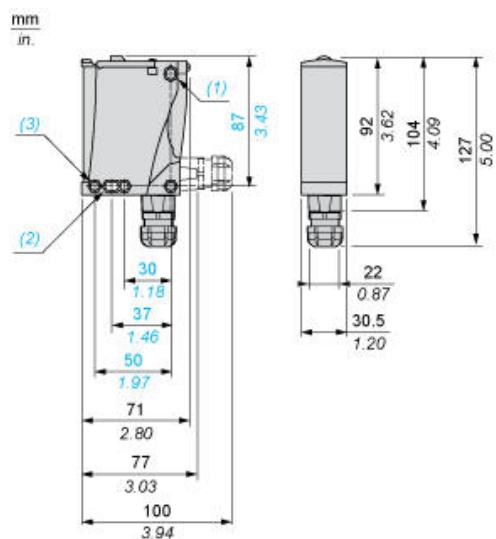
## Offer Sustainability

|  |   |
|--|---|
| Sustainable offer status                   | Green Premium product   |
| California proposition 65                  | WARNING: This product can expose you to chemicals including: Diisobutyl 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 |
|----------|-----------|

## Dimensions



- (1) Elongated hole Ø 5.5 x 7
- (2) Elongated hole Ø 5.5 x 9
- (3) Ø 5.5 hole

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[Wiring Schemes](#)

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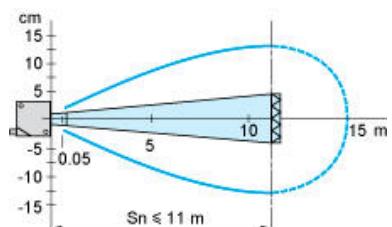
PNP/NPN DC

| M12 |   | Terminals |   |        |
|-----|---|-----------|---|--------|
| 1   | ● | 1         | ∅ | +      |
| 3   | ● | 2         | ∅ | -      |
| 4   | ● | 3         | ∅ | Output |

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**Detection Curves**

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With reflector XUZC50