



## Main

|                               |                                        |
|-------------------------------|----------------------------------------|
| Range of product              | Telemecanique Photoelectric sensors XU |
| Series name                   | General purpose single mode            |
| Electronic sensor type        | Photo-electric sensor                  |
| Sensor name                   | XU5                                    |
| Sensor design                 | Cylindrical M18                        |
| Detection system              | Diffuse                                |
| Material                      | Metal                                  |
| Line of sight type            | Axial                                  |
| Type of output signal         | Discrete                               |
| Supply circuit type           | AC/DC                                  |
| Wiring technique              | 2-wire                                 |
| Discrete output function      | 1 NO                                   |
| Electrical connection         | 1 male connector 1/2"20 UNF, 3 pins    |
| Product specific application  | -                                      |
| Emission                      | Infrared diffuse                       |
| [Sn] nominal sensing distance | 0.4 m diffuse                          |

## Complementary

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| Enclosure material        | Nickel plated brass                                                         |
| Lens material             | PMMA                                                                        |
| Maximum sensing distance  | 0.6 m                                                                       |
| Output type               | Solid state                                                                 |
| Add on output             | Without                                                                     |
| Status LED                | 1 LED (yellow) for output state                                             |
| [Us] rated supply voltage | 24...240 V AC/DC                                                            |
| Supply voltage limits     | 20...264 V AC/DC                                                            |
| Maximum residual current  | 1.5 mA open state                                                           |
| Switching capacity in mA  | 10...200 mA (to be used with 0.4 A quick-blow fuse in series with the load) |
| Switching frequency       | <= 25 Hz                                                                    |
| Maximum voltage drop      | <6 V (closed state)                                                         |
| Maximum delay first up    | 300 ms                                                                      |
| Maximum delay response    | 20 ms                                                                       |
| Maximum delay recovery    | 20 ms                                                                       |
| Setting-up                | Sensitivity adjustment                                                      |
| Diameter                  | 18 mm                                                                       |
| Length                    | 95 mm                                                                       |
| Net weight                | 0.075 kg                                                                    |

## Environment

|                                       |                                                                           |
|---------------------------------------|---------------------------------------------------------------------------|
| Product certifications                | CSA[RETURN]CE[RETURN]UL                                                   |
| 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 conforming to IEC 60529                                              |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 6.6 cm   |
| Package 1 Width              | 9.4 cm   |
| Package 1 Length             | 4.2 cm   |
| Package 1 Weight             | 84.0 g   |
| Unit Type of Package 2       | S01      |
| Number of Units in Package 2 | 22       |
| Package 2 Height             | 15.0 cm  |
| Package 2 Width              | 15.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 2.031 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 Diisodecyl 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>                                                                                                                                                                                                                                                                                                   |

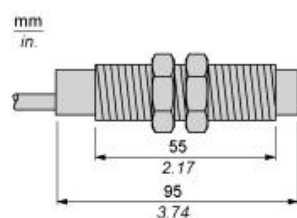
## Contractual warranty

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

---

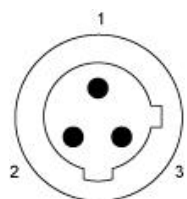
Dimensions

---



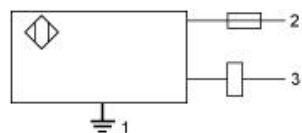
## Wiring Schemes

### Connector



- 1 : Grounding
- 2 : AC/DC
- 3 : AC/DC

### 2-wire AC or DC

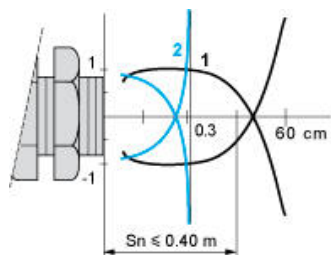


---

## Detection Curves

---

### Diffuse System



1 : White 90%  
2 : Grey 18%  
Object 10 x 10 cm