

# Product datasheet

Specifications



## photo-electric sensor - XUB - diffuse - Sn 0.1m - 12..24VDC - M12

Local distributor code: 388764233    XUB4APANM12

### Main

|                               |                                        |
|-------------------------------|----------------------------------------|
| Range of product              | Telemecanique Photoelectric sensors XU |
| Series name                   | General purpose single mode            |
| Electronic sensor type        | Photo-electric sensor                  |
| Sensor name                   | XUB                                    |
| Sensor design                 | Cylindrical M18                        |
| Detection system              | Diffuse                                |
| Material                      | Plastic                                |
| Line of sight type            | Axial                                  |
| Type of output signal         | Discrete                               |
| Supply circuit type           | DC                                     |
| Wiring technique              | 3-wire                                 |
| Discrete output type          | PNP                                    |
| Discrete output function      | 1 NO                                   |
| Electrical connection         | 1 male connector M12, 4 pins           |
| Product specific application  | -                                      |
| Emission                      | Infrared diffuse                       |
| [Sn] nominal sensing distance | 0.1 m diffuse                          |

### Complementary

|                           |                                                   |
|---------------------------|---------------------------------------------------|
| Enclosure material        | PBT                                               |
| Lens material             | PMMA                                              |
| Maximum sensing distance  | 0.15 m diffuse                                    |
| Output type               | Solid state                                       |
| Add on output             | Without                                           |
| Wire insulation material  | PvR                                               |
| Status LED                | 1 LED (yellow) for output state                   |
| [Us] rated supply voltage | 12...24 V DC with reverse polarity protection     |
| Supply voltage limits     | 10...36 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    | 35 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                 | 62 mm                          |
| Net weight             | 0.04 kg                        |

## Environment

|                                       |                                                                                                                                                     |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Product certifications                | UL<br>CSA<br>CE                                                                                                                                     |
| 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<br>IP69K double insulation conforming to DIN 40050 |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Weight             | 30.0 g   |
| Package 1 Height             | 6 cm     |
| Package 1 width              | 6.2 cm   |
| Package 1 Length             | 14.8 cm  |
| Unit Type of Package 2       | S01      |
| Number of Units in Package 2 | 22       |
| Package 2 Weight             | 1.015 kg |
| Package 2 Height             | 15 cm    |
| Package 2 width              | 15 cm    |
| Package 2 Length             | 40 cm    |

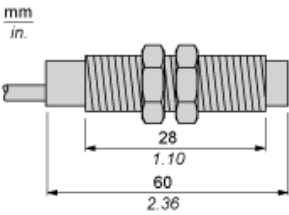
## Offer Sustainability

|                            |                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                             |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                 |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes                                                                                               |
| RoHS exemption information | <a href="#">Yes</a>                                                                               |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                     |

### Contractual warranty

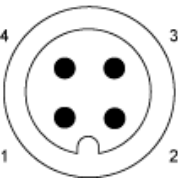
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions



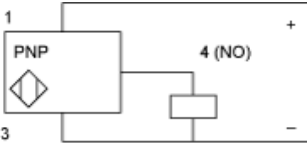
Wiring Schemes

M12 Connector

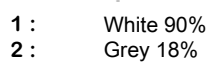


- 1 : (+)
- 3 : (-)
- 4 : OUT/Output

PNP Outputs



## Detection Curves



Object 10 x 10 cm