

# Product datasheet

Specifications



## photo-electric sensor - XUB - receiver - Sn 15m - 12..24VDC - M12

XUB2BPBNM12R

### Main

|                               |  |
|-------------------------------|--|
| Range of product              | Telemecanique Photoelectric sensors XU         |
| Series name                   | General purpose single mode                    |
| Electronic sensor type        | Photo-electric sensor receiver                 |
| Sensor name                   | XUB  |
| Sensor design                 | Cylindrical M18                                |
| Detection system              | Thru beam                                      |
| Material                      | Metal  |
| 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 NC   |
| Electrical connection         | 1 male connector M12, 4 pins                   |
| Product specific application  | -  |
| Emission                      | Infrared thru beam                             |
| [Sn] nominal sensing distance | 15 m thru beam need a transmitter XUB2BKSNM12T |

### Complementary

|                           |   |
|---------------------------|---|
| Enclosure material        | Nickel plated brass                               |
| Lens material             | PMMA  |
| Maximum sensing distance  | 20 m thru beam                                    |
| Output type               | Solid state                                       |
| Add on output             | Without   |
| 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                 | 60 mm                          |
| Net weight             | 0.05 kg                        |

## 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                  | 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               | IP65 double insulation conforming to IEC 60529<br>IP67 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             | 52.0 g   |
| Package 1 Height             | 4.2 cm   |
| Package 1 width              | 6.5 cm   |
| Package 1 Length             | 9.6 cm   |
| Unit Type of Package 2       | S01      |
| Number of Units in Package 2 | 22       |
| Package 2 Weight             | 1.389 kg |
| Package 2 Height             | 15 cm    |
| Package 2 width              | 15 cm    |
| Package 2 Length             | 40 cm    |

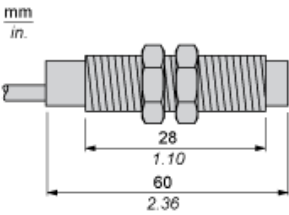
## Offer Sustainability

|                            |   |
|----------------------------|---|
| 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>   |
| Circularity Profile        | <a href="#">End of Life Information</a>   |

Contractual warranty

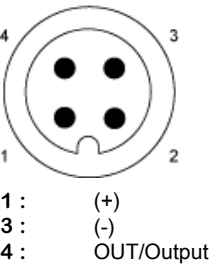
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions

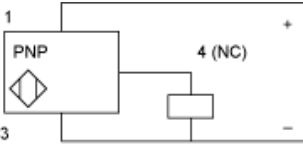


Wiring Schemes

M12 Connector



PNP Outputs



Detection Curves

