

# XUB9BNAWM12

Photoelectric sensors XU, XUB, polarised, 90°,  
Sn 2 m, 12...24 VDC, M12



## 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              | Polarised reflex                           |
| Material                      | Metal                                      |
| Line of sight type            | 90° lateral                                |
| Type of output signal         | Discrete                                   |
| Supply circuit type           | DC                                         |
| Wiring technique              | 3-wire                                     |
| Discrete output type          | NPN                                        |
| Discrete output function      | 1 NO                                       |
| Electrical connection         | 1 male connector M12, 4 pins               |
| Product specific application  | -                                          |
| Emission                      | Red polarised reflex                       |
| [Sn] nominal sensing distance | 2 m polarised reflex need reflector XUZC50 |

## Complementary

|                           |                                                   |
|---------------------------|---------------------------------------------------|
| Enclosure material        | Nickel plated brass                               |
| Lens material             | PMMA                                              |
| Maximum sensing distance  | 3 m polarised reflex                              |
| 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                    | 48 mm                                             |
| Net weight                | 0.05 kg                                           |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither TWSS Holding nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## Environment

|                                       |                                                                                                                                                     |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Product certifications                | CE[RETURN]CSA[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 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 Height             | 4.2 cm   |
| Package 1 Width              | 6.7 cm   |
| Package 1 Length             | 9.6 cm   |
| Package 1 Weight             | 54.0 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             | 1.423 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>                                                                                                                                                                                                                                                                                                    |

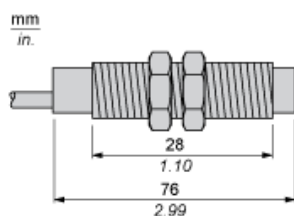
## Contractual warranty

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

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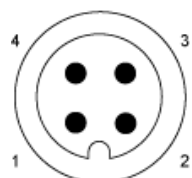
Dimensions

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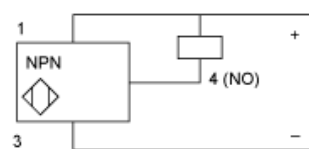
## Wiring Schemes

### M12 Connector



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

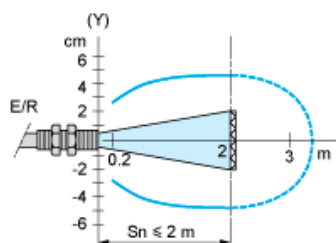
### NPN Outputs



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Detection Curves

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(Y) Ø of beam  
With reflector XUZY50