

# XUK8TAKDMM12

Photoelectric sensors XU, photo electric sensor, XUK, diffuse, Sn 5 m 2output auto PNP/NPN



## Main

|                               |   |
|-------------------------------|---|
| Range of product              | Telemecanique Photoelectric sensors XU  |
| Series name                   | Application assembly<br>Application material handling                           |
| Electronic sensor type        | Photo-electric sensor   |
| Sensor name                   | XUK   |
| Sensor design                 | Compact 50 x 50   |
| Detection system              | Diffuse with background suppression   |
| Material                      | Plastic   |
| Type of output signal         | Discrete  |
| Wiring technique              | 5-wire  |
| Discrete output type          | PNP or NPN  |
| Discrete output function      | 1 NO or 1 NC programmable   |
| Electrical connection         | 1 male connector M12, 5 pins  |
| Product specific application  | Distance measurement on object<br>Suppression of a background                   |
| Emission                      | Red laser diffuse with background suppression class 1 conforming to IEC 60825-1 |
| [Sn] nominal sensing distance | 5 m diffuse with background suppression   |

## Complementary

|                           |  |
|---------------------------|--|
| Enclosure material        | ABS/PC   |
| Lens material             | PMMA   |
| Maximum sensing distance  | 5 m diffuse with background suppression  |
| Output type               | Solid state  |
| Add on input              | External teach   |
| Wire insulation material  | PVC  |
| Status LED                | 1 LED (yellow) for output state<br>1 LED (green/yellow) for supply on/output state |
| [Us] rated supply voltage | 12...24 V DC with reverse polarity protection                                      |
| Supply voltage limits     | 10...30 V DC   |
| Switching capacity in mA  | <= 100 mA (overload and short-circuit protection)                                  |
| Switching frequency       | <= 250 Hz  |
| Maximum voltage drop      | <1.5 V (closed state)  |
| Current consumption       | <= 60 mA no-load   |
| Maximum delay first up    | 300 ms   |
| Maximum delay response    | 2 ms   |
| Maximum delay recovery    | 2 ms   |
| Setting-up                | Using teach button or remote teaching  |
| Depth                     | 50 mm  |
| Height                    | 50 mm  |
| Width                     | 23 mm  |
| Net weight                | 0.035 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 Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.




## Environment

|                                       |   |
|---------------------------------------|---|
| Product certifications                | CULus<br>CE<br>Ecolab   |
| Ambient air temperature for operation | -20...50 °C, UL certified<br>-40...60 °C                                  |
| Ambient air temperature for storage   | -40...80 °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<br>IP69K conforming to DIN 40050             |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Weight             | 59 g     |
| Package 1 Height             | 3 cm     |
| Package 1 width              | 6 cm     |
| Package 1 Length             | 9.2 cm   |
| Unit Type of Package 2       | S01      |
| Number of Units in Package 2 | 28       |
| Package 2 Weight             | 1.848 kg |
| Package 2 Height             | 15 cm    |
| Package 2 width              | 15 cm    |
| Package 2 Length             | 40 cm    |

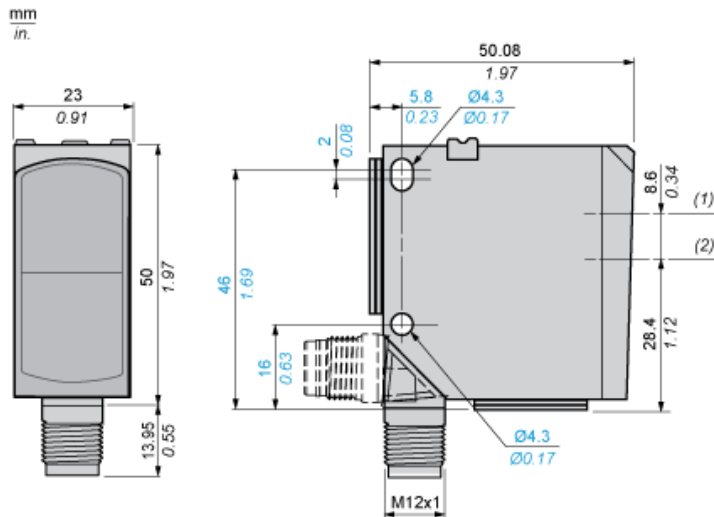
## Offer Sustainability

|                            |  |
|----------------------------|--|
| REACH Regulation           |  <a href="#">REACH Declaration</a>  |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes  |
| RoHS exemption information |  <a href="#">Yes</a>  |

## Contractual warranty

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

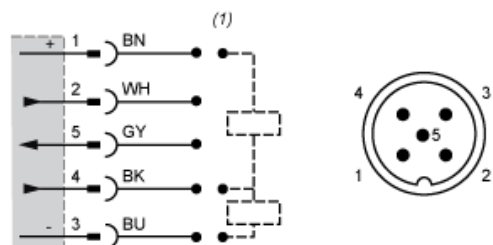
Dimensions



- (1) Transmitter optical axis
- (2) Receiver optical axis

## Connections and Schema

### Connector Wiring



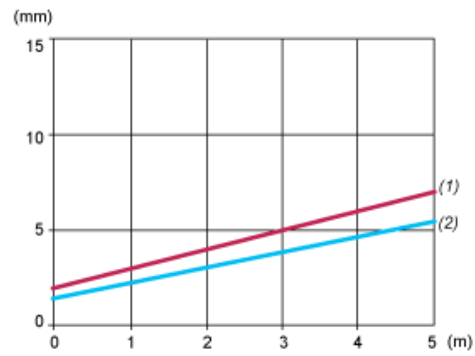
- (1) Auto-detect  
1: + UB (BN: Brown)  
2: Q2 (WH: White)  
3: -UB (BU: Blue)  
4: Q1(BK: Black)  
5: IN (GY: Grey)

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Curves

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Size of light spot (typical)



- (1) Vertical (y)
- (2) Horizontal (x)

0... Size

15

mm :

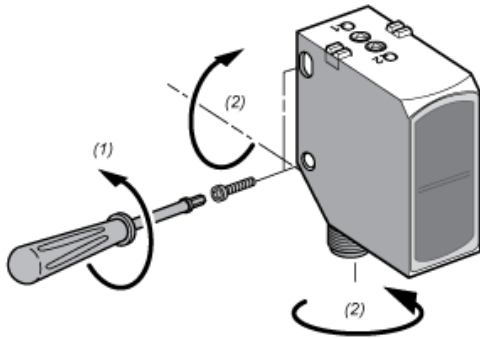
0...5 Distance

m :

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Mounting

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- (1) < 1,5 Nm (13 lb-in)
- (2) < 1 Nm (8.85 lb-in)