

# XUK2LAKSMM12T

Photoelectric sensors XU, photo electric laser sensor, XUK, thru beam transmitter, Sn 30 m -10...30 VDC, M12



## 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              | Thru beam                                             |
| Material                      | Plastic                                               |
| Type of output signal         | Discrete                                              |
| Supply circuit type           | DC                                                    |
| Wiring Technique              | 4-wire                                                |
| Electrical connection         | 1 male connector M12, 4 pins                          |
| Product Specific Application  | -                                                     |
| Emission                      | Red laser thru beam class 1                           |
| [Sn] nominal sensing distance | 82.02 ft (25 m) thru beam need receiver XUK2LAPSMM12R |

## Complementary

|                           |                                          |
|---------------------------|------------------------------------------|
| Enclosure Material        | ABS/PC                                   |
| Lens material             | PMMA                                     |
| Maximum sensing distance  | 98.43 ft (30 m) thru beam                |
| Add on output             | Without                                  |
| Add on input              | Test                                     |
| Status LED                | 1 LED green)supply                       |
| [Us] rated supply voltage | 12...24 V DC reverse polarity protection |
| Supply voltage limits     | 10...30 V DC                             |
| Maximum voltage drop      | <2.4 V closed state)                     |
| Current consumption       | <= 30 mA no-load                         |
| Depth                     | 1.97 in (50 mm)                          |
| Height                    | 1.97 in (50 mm)                          |
| Width                     | 0.91 in (23 mm)                          |
| Net Weight                | 0.08 lb(US) (0.035 kg)                   |

## Environment

|                                       |                                                            |
|---------------------------------------|------------------------------------------------------------|
| Product Certifications                | Ecolab[RETURN]CE[RETURN]cULus                              |
| Ambient air temperature for operation | -4...140 °F (-20...60 °C)<br>-4...122 °F (-20...50 °C), UL |
| Ambient Air Temperature for Storage   | -4...176 °F (-20...80 °C)                                  |
| Vibration resistance                  | 7 gn +/- 1.5 mm 10...55 Hz) IEC 60068-2-6                  |
| Shock resistance                      | 30 gn 11 ms) IEC 60947-5-2                                 |
| IP degree of protection               | IP67 IEC 60529<br>IP69K DIN 40050                          |

## Ordering and shipping details

|                   |                |
|-------------------|----------------|
| Category          | US10DS222481   |
| Discount Schedule | 0DS2           |
| GTIN              | 03389119077545 |
| Returnability     | No             |
| Country of origin | DE             |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Number of Units in Package 1 | 1                      |
| Package 1 Height             | 1.18 in (3.0 cm)       |
| Package 1 Width              | 2.36 in (6.0 cm)       |
| Package 1 Length             | 3.54 in (9.0 cm)       |
| Package 1 Weight             | 1.73 oz (49.0 g)       |
| Unit Type of Package 2       | S01                    |
| Number of Units in Package 2 | 28                     |
| Package 2 Height             | 5.91 in (15.0 cm)      |
| Package 2 Width              | 5.91 in (15.0 cm)      |
| Package 2 Length             | 15.75 in (40.0 cm)     |
| Package 2 Weight             | 3.52 lb(US) (1.597 kg) |

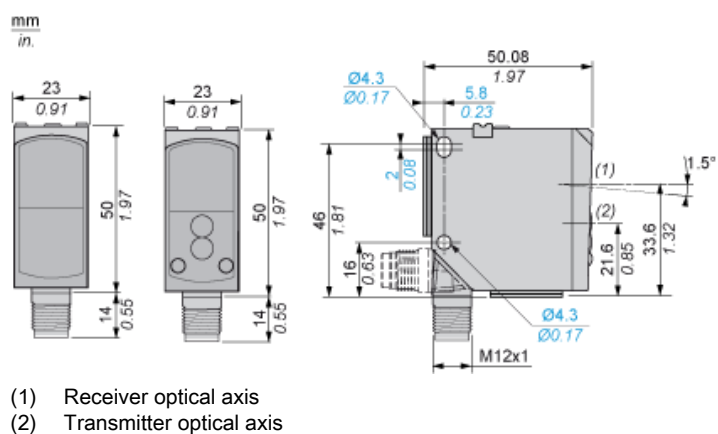
## Offer Sustainability

|                                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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>                                                                                                                                                                                                                                                                                                    |

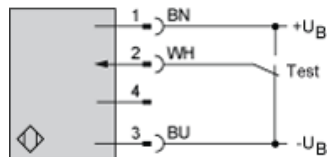
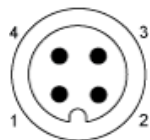
## Contractual warranty

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

## Dimensions



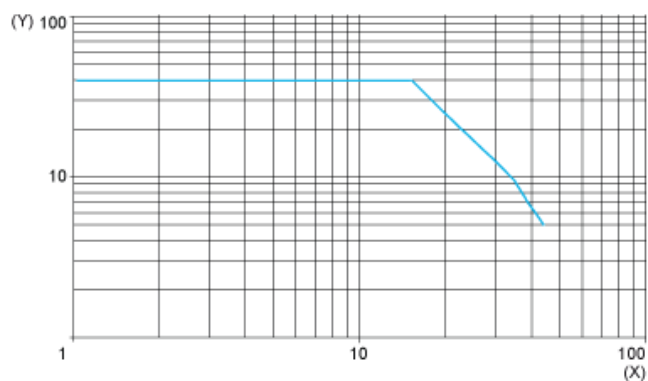
## Wiring Schemes Using M12 Connector



- 1 : (+)
- 2 : Test input (1)
- 3 : (-)
- 4 : Pin not connected
- BN : Brown
- WH : White
- BU : Blue
- +UB : External teach
- UB : Pushbutton locking
- (1) Test input: +UB = test function (transmitter disconnected). -UB or not connected = normal operation

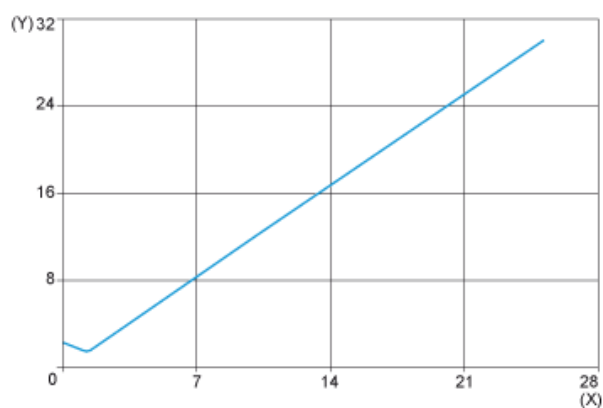
## Curves

### Excess Gain Curve



(X) Distance (m)  
(Y) Gain

### Size of Luminous Point



(X) Distance (m)  
(Y) Size (mm)