

# XUK2APBNM12R

photo-electric sensor - XUK - receiver - Sn 30m  
- 12..24VDC - M12



## Main

|                               |                                                |
|-------------------------------|------------------------------------------------|
| Range of product              | OsiSense XU                                    |
| Series name                   | General purpose single mode                    |
| Electronic sensor type        | Photo-electric sensor receiver                 |
| 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              | 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 | 30 m thru beam need a transmitter XUK2AKSNM12T |

## Complementary

|                           |                                                   |
|---------------------------|---------------------------------------------------|
| Enclosure material        | PBT                                               |
| Lens material             | PMMA                                              |
| Maximum sensing distance  | 45 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       | <= 250 Hz                                         |
| Maximum voltage drop      | <1.5 V (closed state)                             |
| Current consumption       | <= 35 mA no-load                                  |
| Maximum delay first up    | 15 ms                                             |
| Maximum delay response    | 2 ms                                              |
| Maximum delay recovery    | 2 ms                                              |
| Setting-up                | Without sensitivity adjustment                    |
| Depth                     | 50 mm                                             |
| Height                    | 50 mm                                             |
| Width                     | 18 mm                                             |
| Net weight                | 0.075 kg                                          |

## Environment

|                                       |                                                                           |
|---------------------------------------|---------------------------------------------------------------------------|
| Product certifications                | CE<br>UL<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                            |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Weight             | 63 g     |
| Package 1 Height             | 4.3 cm   |
| Package 1 width              | 6.6 cm   |
| Package 1 Length             | 9.6 cm   |
| Unit Type of Package 2       | S02      |
| Number of Units in Package 2 | 44       |
| Package 2 Weight             | 3.227 kg |
| Package 2 Height             | 15 cm    |
| Package 2 width              | 30 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) <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



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Mounting and Clearance

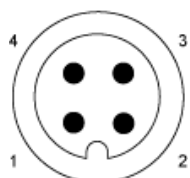
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Possible Orientation of Elbowed Connector



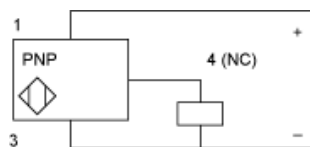
## Wiring Schemes

### M12 Connector



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

### PNP Outputs



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Detection Curves

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