



## Main

|                               |                                               |
|-------------------------------|-----------------------------------------------|
| Range of product              | Telemecanique Photoelectric sensors 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         | Cable                                         |
| Cable length                  | 2 m                                           |
| Product specific application  | -                                             |
| Emission                      | Infrared thru beam                            |
| [Sn] nominal sensing distance | 30 m thru beam need a transmitter XUK2AKSNL2T |

## Complementary

|                           |                                                   |
|---------------------------|---------------------------------------------------|
| Enclosure material        | PBT                                               |
| Lens material             | PMMA                                              |
| Maximum sensing distance  | 45 m thru beam                                    |
| Output type               | Solid state                                       |
| Add on output             | Without                                           |
| Wire insulation material  | PVC                                               |
| 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                                             |

## 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               | IP65 double insulation conforming to IEC 60529                            |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 4.200 cm  |
| Package 1 Width              | 9.700 cm  |
| Package 1 Length             | 13.200 cm |
| Package 1 Weight             | 155.000 g |
| Unit Type of Package 2       | S02       |
| Number of Units in Package 2 | 22        |
| Package 2 Height             | 15.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 4.130 kg  |

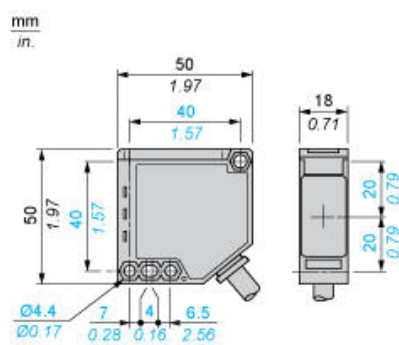
## Offer Sustainability

|                                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 |
|----------|-----------|

## Dimensions

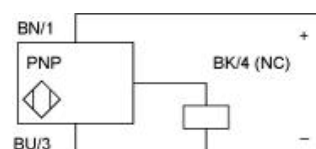


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## Wiring Schemes

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### PNP Outputs



BN : Brown  
BU : Blue  
BK : Black

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## Detection Curves

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