

# Product data sheet

Specifications



## Photoelectric sensors XU, thru beam, Sn 2 mm, NO or NC, M8 connector

XUVK0252S

### Main

|                               |                                                    |
|-------------------------------|----------------------------------------------------|
| Range of product              | Telemecanique Photoelectric sensors XU             |
| Series name                   | Application packaging                              |
| Electronic sensor type        | Photo-electric sensor                              |
| Sensor name                   | XUV                                                |
| Sensor design                 | Fork                                               |
| Detection system              | Thru beam                                          |
| Emission                      | Infrared                                           |
| Type of setting               | Without                                            |
| Passage width                 | 2 mm                                               |
| Passage depth                 | 50 mm                                              |
| Material                      | Metal                                              |
| Supply circuit type           | DC                                                 |
| Wiring technique              | 3-wire                                             |
| Discrete output type          | PNP and NPN                                        |
| Discrete output function      | 2 NO/NC programmable                               |
| Electrical connection         | 1 male connector M8 adjustable through 90°, 4 pins |
| Product specific application  | Detection of labels                                |
| [Sn] nominal sensing distance | 2 mm                                               |

### Complementary

|                           |                                                                                        |
|---------------------------|----------------------------------------------------------------------------------------|
| Setting-up                | Teach mode                                                                             |
| Enclosure material        | Zinc alloy                                                                             |
| Lens material             | Glass                                                                                  |
| Type of output signal     | Discrete                                                                               |
| Output type               | Solid state                                                                            |
| Status LED                | Sensor ready: 1 LED (green)<br>Read error: 1 LED (red)<br>Output state: 1 LED (yellow) |
| [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      | <= 25 kHz                                         |
| Maximum voltage drop     | <1.5 V (closed state)                             |
| Output clamping resistor | 10 kOhm                                           |
| Current consumption      | <= 50 mA no-load                                  |
| Maximum delay first up   | 30 ms                                             |
| Maximum delay response   | 0.1 ms                                            |
| Maximum delay recovery   | 0.1 ms                                            |
| Depth                    | 90 mm                                             |
| Height                   | 20 mm                                             |
| Width                    | 20 mm                                             |
| Product weight           | 0.085 kg                                          |

## Environment

|                                       |                                                                           |
|---------------------------------------|---------------------------------------------------------------------------|
| Product certifications                | CE                                                                        |
| Ambient air temperature for operation | 0...55 °C                                                                 |
| Ambient air temperature for storage   | -20...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 conforming to IEC 60529                                              |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 8.2 cm   |
| Package 1 Width              | 8.0 cm   |
| Package 1 Length             | 3.6 cm   |
| Package 1 Weight             | 130.0 g  |
| Unit Type of Package 2       | S02      |
| Number of Units in Package 2 | 45       |
| Package 2 Height             | 15.0 cm  |
| Package 2 Width              | 30.0 cm  |
| Package 2 Length             | 40.0 cm  |
| Package 2 Weight             | 6.344 kg |

## Offer Sustainability

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

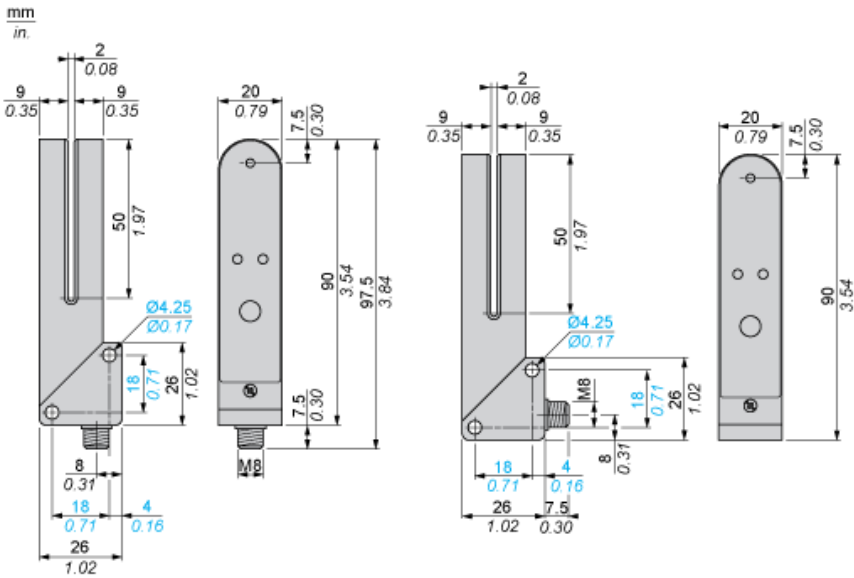
|                           |                                                                                                                                                                                                                                                                               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

Contractual warranty

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

Dimensions

M8 Connector Adjustable Through 90°

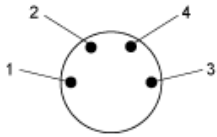


Connector Scheme

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3-wire, PNP and NPN

NO or NC Programmable Function



- 1 : +
- 2 : NPN Output
- 3 : -
- 4 : PNP Output

Recommended replacement(s)