

XUK8AKSNL2

Photoelectric sensors XU, photo electric laser sensor, XUK, BGS, Sn 1 m, 12...24 VDC, cable 2 m



Main

| | |
|-------------------------------|---|
| Range of Product | Telemecanique Photoelectric sensors XU |
| Series name | General purpose single mode |
| 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 |
| Supply circuit type | DC |
| Wiring Technique | 3-wire |
| Discrete output type | PNP or NPN |
| Discrete output function | 1 NO or 1 NC programmable |
| Electrical connection | Cable |
| Cable length | 6.56 ft (2 m) |
| Product Specific Application | - |
| Emission | Infrared laser, modulated diffuse with background suppression class 1 |
| [Sn] nominal sensing distance | 3.28 ft (1 m) diffuse with background suppression |

Complementary

| | |
|---------------------------------------|--|
| Enclosure Material | PC |
| Lens material | PMMA |
| Maximum sensing distance | 3.28 ft (1 m) diffuse with background suppression |
| Minimum object diameter for detection | 0.08 in (2 mm) |
| Output Type | Solid state |
| Add on output | Without, <= 50 mA overload and short-circuit protection |
| Cable composition | 5 x 0.34 mm ² |
| Wire insulation material | PVC |
| Cable outer diameter | 0.24 in (6 mm) |
| Status LED | 1 LED green)supply on 1 LED yellow)output state 1 LED red)alignment assistance |
| [Us] rated supply voltage | 12...24 V DC 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 | 300 ms |
| Maximum delay response | 2 ms |
| Maximum delay recovery | 2 ms |
| Setting-up | Sensitivity adjustment by potentiometer |
| Depth | 1.97 in (50 mm) |
| Height | 1.97 in (50 mm) |
| Width | 0.71 in (18 mm) |

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 TWSS Holding nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

| | |
|-----------------|----------------------------|
| Net Weight | 0.42 lb(US) (0.19 kg) |
| Kit composition | With XUZA51 bracket fixing |

Environment

| | |
|---------------------------------------|----------------------------------|
| Product Certifications | CE |
| Ambient air temperature for operation | -13...131 °F (-25...55 °C) |
| Ambient Air Temperature for Storage | -22...158 °F (-30...70 °C) |
| Vibration resistance | 7 gn 10...55 Hz) IEC 60068-2-6 |
| Shock resistance | 10 gn 11 ms) IEC 60068-2-27 |
| IP degree of protection | IP65 double insulation IEC 60529 |

Ordering and shipping details

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|-------------------|---------------|
| Category | US10DS222481 |
| Discount Schedule | 0DS2 |
| GTIN | 3389110057638 |
| Returnability | No |
| Country of origin | ID |

Packing Units

| | |
|------------------------------|----------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 1.65 in (4.2 cm) |
| Package 1 Width | 3.82 in (9.7 cm) |
| Package 1 Length | 5.20 in (13.2 cm) |
| Package 1 Weight | 8.04 oz (228 g) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 12 |
| Package 2 Height | 5.91 in (15 cm) |
| Package 2 Width | 11.81 in (30 cm) |
| Package 2 Length | 15.75 in (40 cm) |
| Package 2 Weight | 7.05 lb(US) (3.2 kg) |

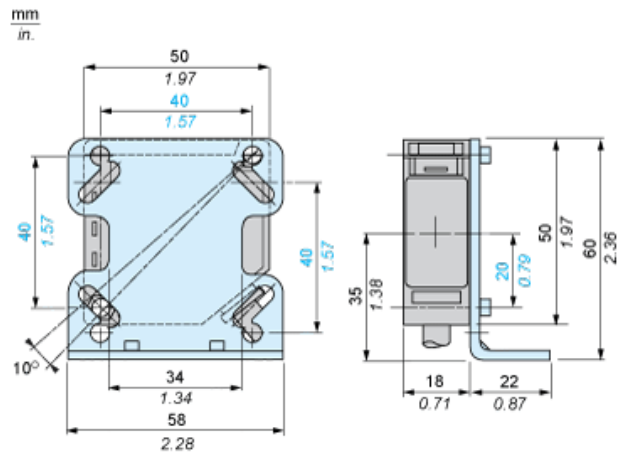
Offer Sustainability

| | |
|--|---|
| 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 www.P65Warnings.ca.gov |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |
| For all Reach Rohs enquiries contact us at | sustainability@tesensors.com |

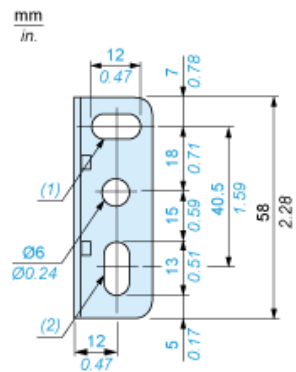
Contractual warranty

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

Dimensions



Bracket fixing

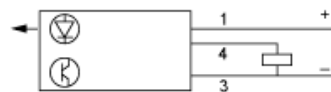


- (1) 1 elongated hole $\varnothing 6 \times 12$
- (2) 1 elongated hole $\varnothing 6 \times 13$

Wiring Schemes

NO/NC Programming

PNP Output



NPN Output

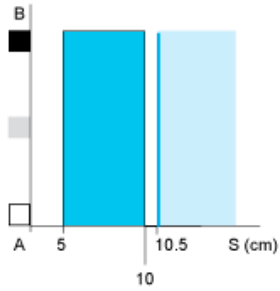


BN : Brown
BU : Blue
BK : Black

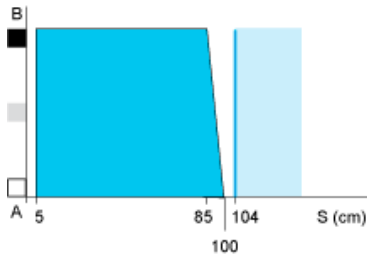
Detection Curves

Variation of Usable Sensing Distance S_u

Adjustment at 10 cm



Adjustment at 1 m

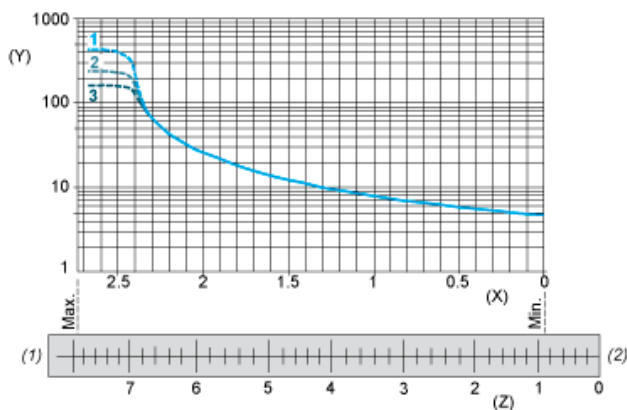


- (1) Black
- (2) Grey
- (3) White
- (4) Sensing range
- (5) Non sensing zone (matt surfaces)

A-B : Object reflection coefficient

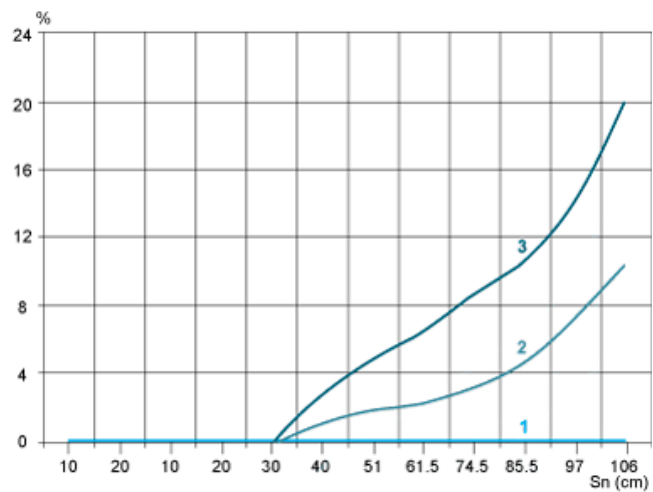
- (1) Black 6%
- (2) Grey 18%
- (3) White 90%
- (4) Sensing range
- (5) Non sensing zone (matt surfaces)

Sensing Distance Adjustment



- 1 : White 90%
- 2 : Grey 18%
- 3 : Black 6%
- (Y) Sensing distance (cm)
- (X) Number of turns on potentiometer
- (Z) Setting indicator position (mm)

Relative Difference in Sensing Distances According to Object Colour



- 1 : White 90%
- 2 : Grey 18%
- 3 : Black 6%