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	2 m
Product specific application	-
Emission	Infrared laser, modulated diffuse with background suppression class 1
[Sn] nominal sensing distance	1 m diffuse with background suppression

Complementary

Complementary		
Enclosure material	PC	
Lens material	PMMA	
Maximum sensing distance	1 m diffuse with background suppression	
Minimum object diameter for detection	2 mm	
Output type	Solid state	
Add on output	Without, <= 50 mA with overload and short-circuit protection	
Cable composition	5 x 0.34 mm²	
Wire insulation material	PVC	
Cable outer diameter	6 mm	
Status LED	1 LED (green) for supply on 1 LED (yellow) for output state 1 LED (red) for alignment assistance	
[Us] rated supply voltage	1224 V DC with reverse polarity protection	
Supply voltage limits	1036 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	50 mm	
Height	50 mm	
Width	18 mm	

Net weight	0.19 kg
Kit composition	With XUZA51 bracket fixing
Environment	
Product certifications	CE
Ambient air temperature for operation	-2555 °C
Ambient air temperature for storage	-3070 °C
Vibration resistance	7 gn (f = 1055 Hz) conforming to IEC 60068-2-6
Shock resistance	10 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	4.2 cm
Package 1 Width	9.7 cm
Package 1 Length	13.2 cm
Package 1 Weight	228 g
Unit Type of Package 2	S02
Number of Units in Package 2	12
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	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
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com



18 months

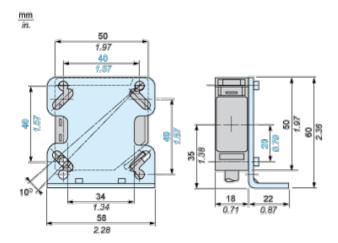
Contractual warranty

Warranty

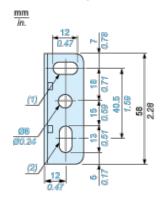
Product data sheet **Dimensions Drawings**

XUK8AKSNL2

Dimensions



Bracket fixing



- (1) 1 elongated hole Ø 6 x 12
 (2) 1 elongated hole Ø 6 x 13

Product data sheet Connections and Schema

XUK8AKSNL2

Wiring Schemes

NO/NC Programming

PNP Output



NPN Output

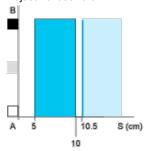


BN : Brown BU : Blue BK : Black

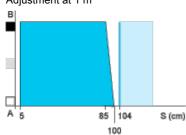
Detection Curves

Variation of Usable Sensing Distance Su

Adjustment at 10 cm



Adjustment at 1 m

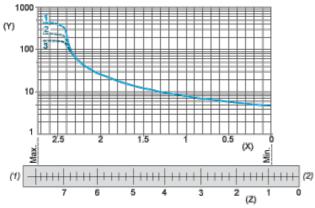


(2) (3)

A-B: Object reflection coefficient

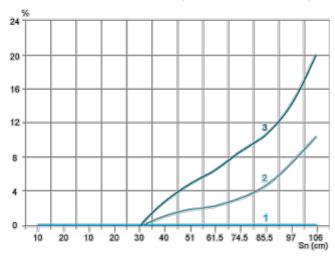
- (1) Black 6%
- (2) **Grey 18%**
- White 90% (3)
- (4) Sensing range
- Non sensing zone (matt surfaces)

Sensing Distance Adjustment



- White 90% 1:
- **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%