XUK8AKSNL2

photo-electric laser sensor - XUK - BGS - Sn 1m - 12..24VDC - cable 2m





Main

Range of product	OsiSense 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 mm ²
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
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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	0 220 kg
Package 1 Weight	0.229 kg
Package 1 Height	0.420 dm
Package 1 width	0.970 dm
Package 1 Length	1.320 dm
Offer Sustainability	
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EV EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	₽¥Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	☑ End of Life Information

Contractual warranty

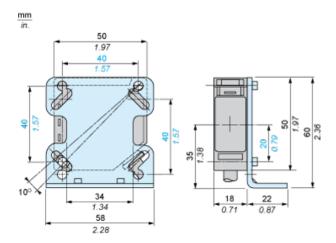
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Warranty		18 months



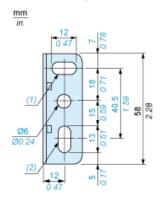
Product data sheet **Dimensions Drawings**

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Dimensions



Bracket fixing



- 1 elongated hole \emptyset 6 x 12 1 elongated hole \emptyset 6 x 13

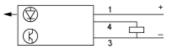
Product data sheet Connections and Schema

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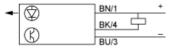
Wiring Schemes

NO/NC Programming

PNP Output



NPN Output



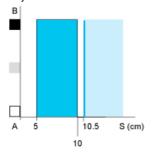
BN : Brown BU : Blue BK : Black

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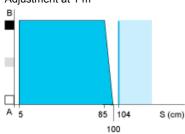
Detection Curves

Variation of Usable Sensing Distance Su

Adjustment at 10 cm



Adjustment at 1 m

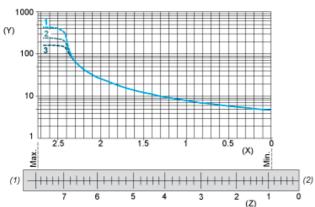


(3)

A-B: Object reflection coefficient

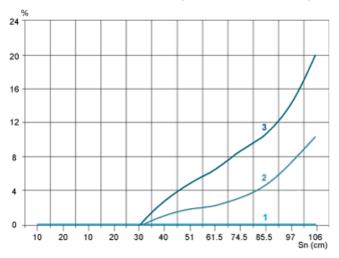
- Black 6% (1)
- (2) **Grey 18%**
- (3) White 90%
- (4) Sensing range
- Non sensing zone (matt surfaces)

Sensing Distance Adjustment



- White 90% 1:
- **Grey 18%**
- Black 6% 3:
- (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%