### XUK8AKSNL2

Main

Wiring technique

Discrete output type

Discrete output function
Electrical connection

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





#### Range of product OsiSense XU Series name General purpose single mode Electronic sensor type Photo-electric sensor Sensor name XUK Compact 50 x 50 Sensor design Detection system Diffuse with background suppression Material Plastic Type of output signal Discrete DC Supply circuit type

3-wire

Cable

PNP or NPN

Cable length	6.56 ft (2 m)
Product specific application	-
Emission	Infrared laser, modulated diffuse with background

1 NO or 1 NC programmable

| Suppression class 1 | [Sn] nominal sensing | 3.28 ft (1 m) diffuse with background suppression distance

#### Complementary

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 mm²
Wire insulation material	PVC
Cable outer diameter	0.24 in (6 mm)
Status LED	LED green)supply on     LED yellow)output state     LED red)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	1.97 in (50 mm)
Height	1.97 in (50 mm)
Maximum Width	0.71 in (18 mm)

Net Weight	0.42 lb(US) (0.19 kg)
Kit composition	With XUZA51 bracket fixing
Environment	
Product certifications	CE
Ambient air temperature for operation	-13131 °F (-2555 °C)
Ambient air temperature for storage	-22158 °F (-3070 °C)
Vibration resistance	7 gn 1055 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	
Category	22481 - SENSORS, PHOTOELECTRIC
Discount Schedule	DS2
GTIN	00785901257011
Nbr. of units in pkg.	1
Package weight(Lbs)	0.57 lb(US) (0.26 kg)
Returnability	No
Country of origin	ID
Packing Units Package 1 Height	0.420 dm
Package 1 width	0.970 dm
Package 1 Length	1.320 dm
Offer Sustainability	
Offer Sustainability Sustainable offer status	Green Premium product
Sustainable offer status	Green Premium product  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
Sustainable offer status 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
Sustainable offer status  California proposition 65  REACh Regulation	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  Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS
Sustainable offer status  California proposition 65  REACh Regulation  EU RoHS Directive	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  Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Sustainable offer status  California proposition 65  REACh Regulation  EU RoHS Directive  Mercury free	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  Pro-active compliance (Product out of EU RoHS legal scope) FU RoHS Declaration  Yes
-	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  Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration

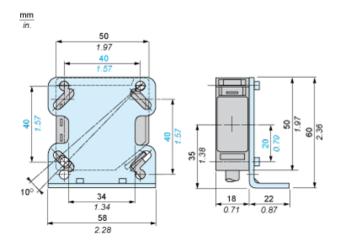
18 months

Warranty

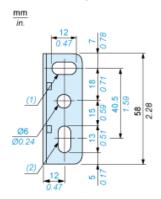
## Product data sheet **Dimensions Drawings**

# XUK8AKSNL2

#### **Dimensions**



#### Bracket fixing



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

### Product data sheet Connections and Schema

# XUK8AKSNL2

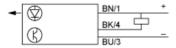
#### Wiring Schemes

#### NO/NC Programming

#### PNP Output



### NPN Output



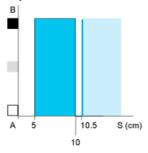
BN : Brown BU : Blue BK : Black

### XUK8AKSNL2

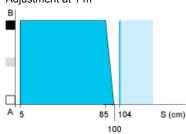
#### **Detection Curves**

#### Variation of Usable Sensing Distance Su

Adjustment at 10 cm



Adjustment at 1 m

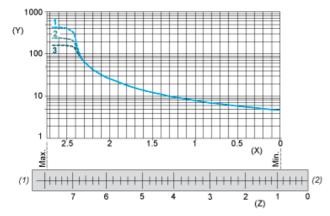


(3)

A-B: Object reflection coefficient

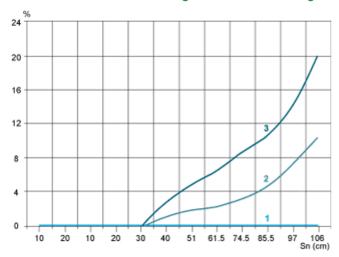
- Black 6% (1)
- (2) **Grey 18%**
- White 90% (3)
- (4) Sensing range
- Non sensing zone (matt surfaces)

#### 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%