

XUK8TAE2MM12

photo-electric sensor - XUK - diffuse Sn 5m
1output auto PNP/NPN 1output 4.20mA



Main

Range of product	OsiSense XU
Series name	Application assembly Application material handling
Electronic sensor type	Photo-electric sensor
Sensor name	XUK
Sensor design	Compact 50 x 50
Detection system	Diffuse distance sensor
Material	Plastic
Type of output signal	Analogue + discrete
Wiring technique	5-wire
Discrete output type	PNP or NPN
Discrete output function	1 NO or 1 NC programmable
Analogue output range	4...20 mA
Electrical connection	1 male connector M12, 5 pins
Product specific application	Distance measurement on object
Emission	Red laser diffuse distance sensor class 1 IEC 60825-1
[Sn] nominal sensing distance	16.40 ft (5 m) diffuse distance sensor

Complementary

Enclosure material	ABS/PC
Lens material	PMMA
Maximum sensing distance	16.40 ft (5 m) diffuse distance sensor
Output type	Solid state Analog
Add on input	External teach
Status LED	1 LED yellow)output state 1 LED green/yellow)supply on/output state
[Us] rated supply voltage	24 V DC reverse polarity protection
Supply voltage limits	18...30 V DC
Switching capacity in mA	<= 100 mA overload and short-circuit protection)
Switching frequency	<= 500 Hz
Maximum voltage drop	<2 V
Current consumption	<= 60 mA no-load
Maximum delay first up	300 ms
Maximum delay response	1.2 ms
Maximum delay recovery	1.2 ms
Setting-up	Using teach button or remote teaching
Depth	1.97 in (50 mm)
Height	1.97 in (50 mm)
Width	0.91 in (23 mm)
Net weight	0.08 lb(US) (0.035 kg)

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Environment

Product certifications	Ecolab CULus CE
Ambient air temperature for operation	-4...122 °F (-20...50 °C), UL -40...140 °F (-40...60 °C)
Ambient air temperature for storage	-40...176 °F (-40...80 °C)
Vibration resistance	7 gn +/- 1.5 mm 10...55 Hz) IEC 60068-2-6
Shock resistance	30 gn 11 ms) IEC 60068-2-27
IP degree of protection	IP67 IEC 60529 IP69K DIN 40050

Ordering and shipping details

Category	22481 - SENSORS, PHOTOELECTRIC
Discount Schedule	DS2
GTIN	00785901007241
Nbr. of units in pkg.	1
Package weight(Lbs)	0.13 lb(US) (0.06 kg)
Returnability	Yes
Country of origin	DE

Packing Units

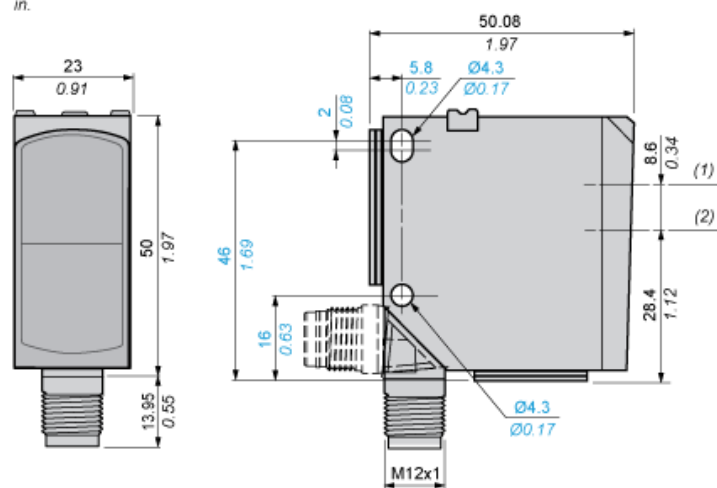
Unit Type of Package 1	PCE
Package 1 Height	1.18 in (3 cm)
Package 1 width	2.36 in (6 cm)
Package 1 Length	3.54 in (9 cm)
Unit Type of Package 2	S01
Number of Units in Package 2	28
Package 2 Weight	4.07 lb(US) (1.844 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	5.91 in (15 cm)
Package 2 Length	15.75 in (40 cm)

Offer Sustainability

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
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	 Yes

Contractual warranty

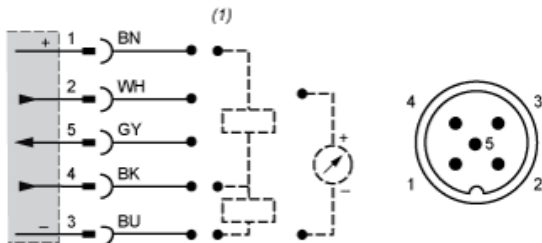
Warranty	18 months
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$$\frac{\text{mm}}{\text{in.}}$$


- (1) Transmitter optical axis
- (2) Receiver optical axis

Connections and Schema

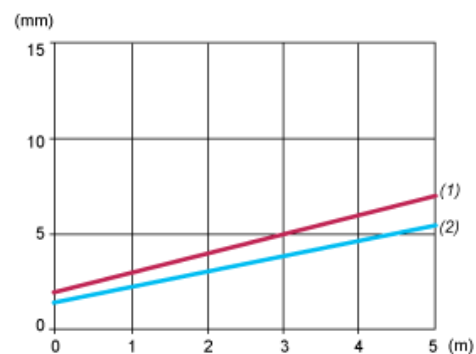
Connector Wiring



- (1) Auto-detect
1 : + UB (BN: Brown)
2 : QA (WH: White)
3 : -UB (BU: Blue)
4 : Q (BK: Black)
5 : IN (GY: Grey)

Curves

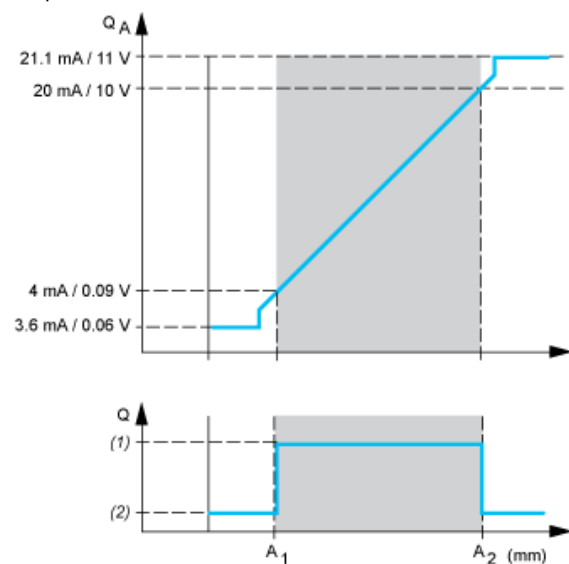
Size of light spot (typical)



(1) Vertical (y)
(2) Horizontal (x)
0... Size
15
mm :
0...5 Distance
m :

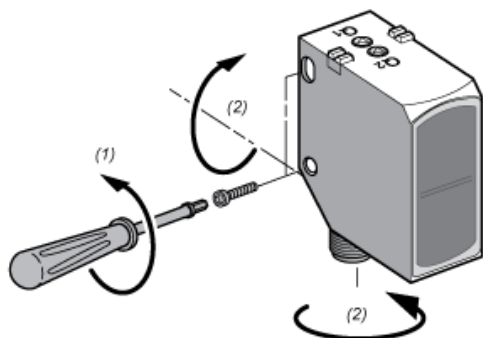
Curves

Output characteristic curve



QA : Analogue output
Q : Switching output
(1) High
(2) Low

Mounting



- (1) < 1,5 Nm (13 lb-in)
(2) < 1 Nm (8.85 lb-in)