

XUK8TAE1MM12

photo-electric sensor - XUK - diffuse - Sn 5m
1Q auto PNP/NPN 1Qa 0...10V



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	0...10 V
Electrical connection	1 male connector M12, 5 pins
Product specific application	Distance measurement on object
Emission	Red laser diffuse distance sensor class 1 conforming to IEC 60825-1
[Sn] nominal sensing distance	5 m diffuse distance sensor

Complementary

Enclosure material	ABS/PC
Lens material	PMMA
Maximum sensing distance	5 m diffuse distance sensor
Output type	Analog Solid state
Add on input	External teach
Status LED	1 LED (yellow) for output state 1 LED (green/yellow) for supply on/output state
[Us] rated supply voltage	24 V DC with 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	50 mm
Height	50 mm
Width	23 mm
Net weight	0.035 kg

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Environment

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

Packing Units

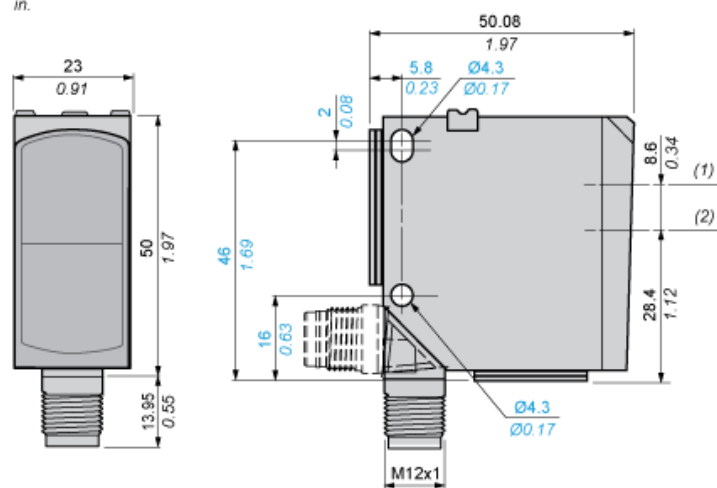
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	56 g
Package 1 Height	2.8 cm
Package 1 width	9 cm
Package 1 Length	6 cm
Unit Type of Package 2	S01
Number of Units in Package 2	28
Package 2 Weight	1.848 kg
Package 2 Height	15 cm
Package 2 width	15 cm
Package 2 Length	40 cm

Offer Sustainability

REACH Regulation	 REACH Declaration
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

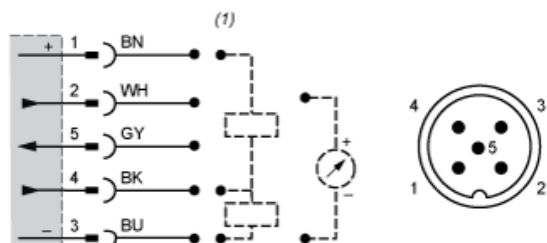
Warranty	18 months
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$$\frac{\text{mm}}{\text{in.}}$$


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

Connections and Schema

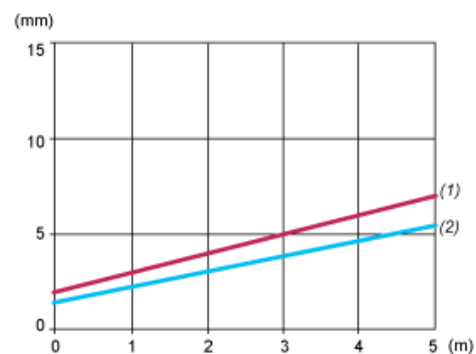
Connector Wiring



- (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

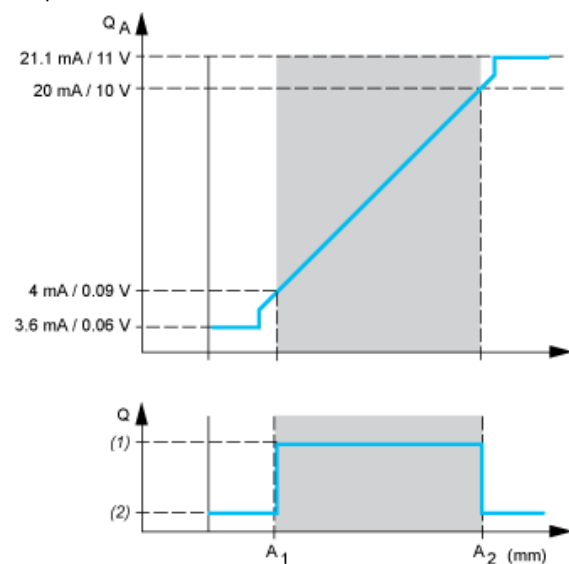
mm :

0...5 Distance

m :

Curves

Output characteristic curve



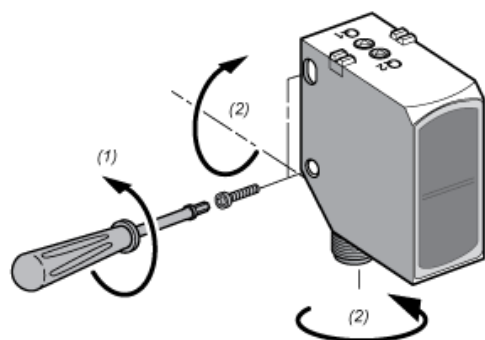
QA : Analogue output

Q : Switching output

(1) High

(2) Low

Mounting



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