

# XUK8TAE1MM12

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

Product availability: Stock - Normally stocked in distribution facility



## 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 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	Analog Solid state
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)

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## Environment

Product certifications	CE CULus Ecolab
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	00785901005025
Package weight(Lbs)	0.06 kg (0.13 lb(US))
Returnability	Yes
Country of origin	DE

## Offer Sustainability

REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>

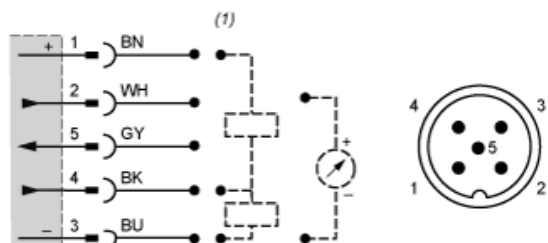
## Contractual warranty

Warranty	18 months
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## Connections and Schema

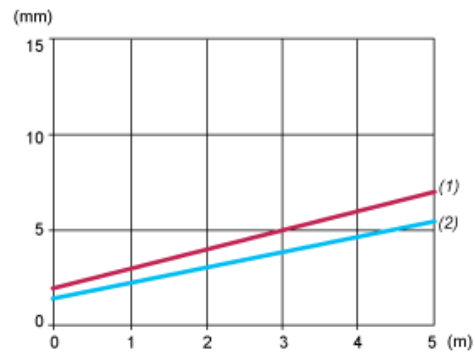
### Connector Wiring



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

Curves

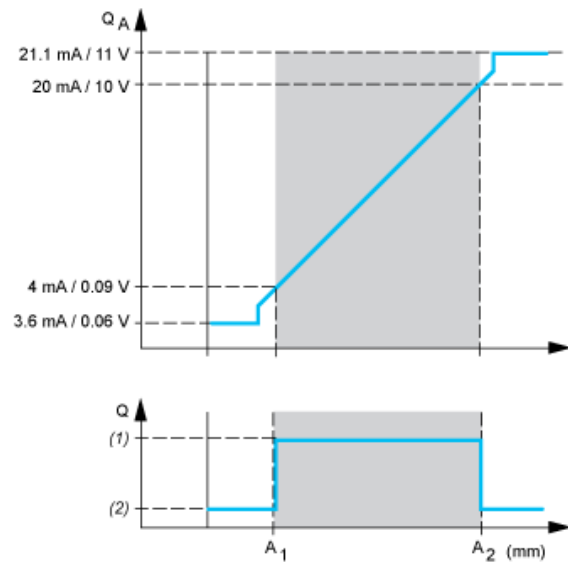
Size of light spot (typical)



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

Curves

Output characteristic curve

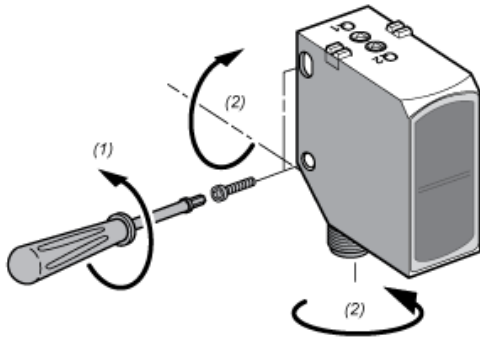


- QA : Analogue output
- Q : Switching output
- (1) High
- (2) Low

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Mounting

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