Product data sheet
Characteristics

XUK8TAE1MM12
Photoelectric sensors XU, XUK, diffuse, Sn 5 m 1out IOLINK or auto PNP/NPN, 1out 0...10 V



Main

Range of Product	Telemecanique Photoelectric sensors 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 with background suppression
Material	Plastic
Type of output signal	Analogue + discrete
Wiring Technique	5-wire
Discrete output type	IOLINK 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)

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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.
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Environment

Product Certifications	CE[RETURN]cULus[RETURN]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 IEC 60529 IP69K DIN 40050

Ordering and shipping details

Category	22481-SENSORS, PHOTOELECTRIC
Discount Schedule	DS2
GTIN	3389119618083
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.10 in (2.8 cm)
Package 1 Width	3.54 in (9.0 cm)
Package 1 Length	2.36 in (6.0 cm)
Package 1 Weight	1.98 oz (56.0 g)
Unit Type of Package 2	S01
Number of Units in Package 2	28
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	5.91 in (15.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	3.86 lb(US) (1.752 kg)

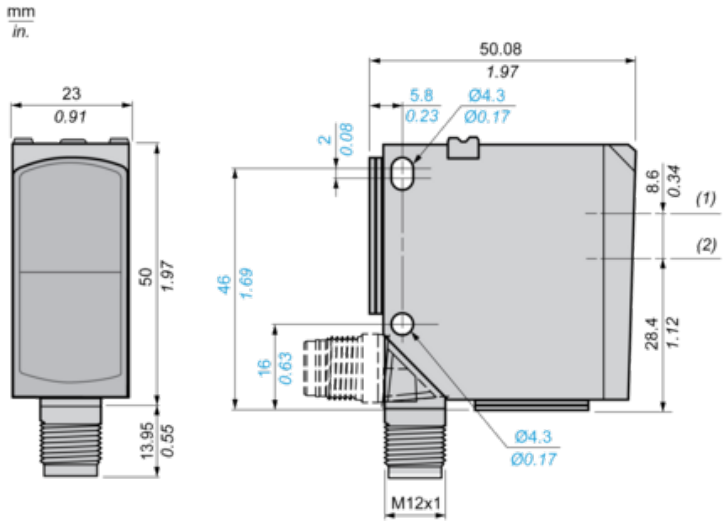
Offer Sustainability

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
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

Dimensions

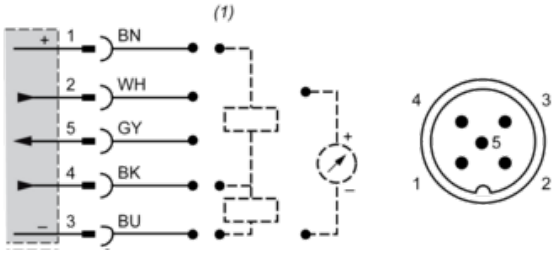


(1) Transmitter optical axis

(2) Receiver optical axis

Connections and Schema

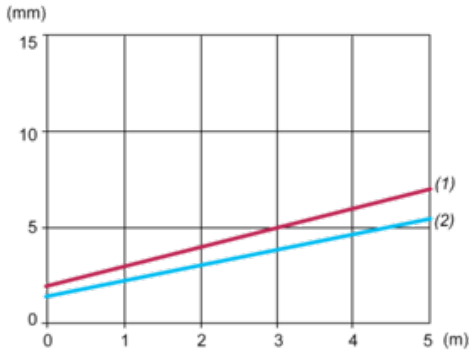
Connector Wiring



(1) Auto-detect
1 : + UB (BN: Brown)
2 : QA (WH: White)
3 : -UB (BU: Blue)
4 : Q/IO-Link (BK: Black)
5 : IN (GY: Grey)
Note : In OI-Link mode, a 4-pin cable must be used.

Curves

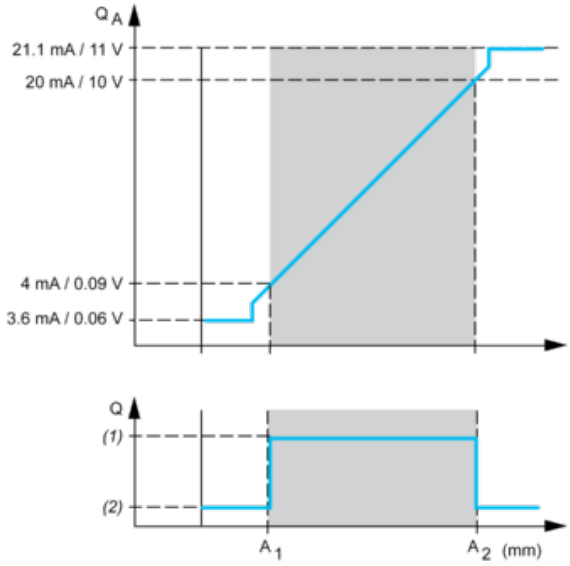
Size of light spot (typical)



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

Curves

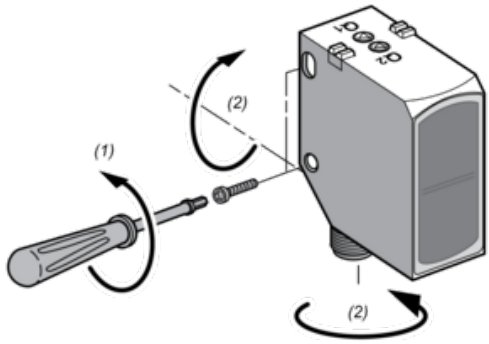
Output characteristic curve



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

XUK8TAE1MM12

Mounting



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