XUK8TAKSMM12

Photoelectric sensors XU, XUK, diffuse, Sn 5 m 1out IOLINK or auto PNP/NPN



Main

Range of product	Telemecanique Photoelectric sensors XU
Series name	Application material handling Application assembly
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	Discrete
Wiring technique	4-wire
Discrete output type	IOLINK PNP or NPN
Discrete output function	1 NO or 1 NC programmable
Electrical connection	1 male connector M12, 4 pins
Product specific application	Distance measurement on object Distance measurement on object
Emission	Red laser diffuse with background suppression class 1 conforming to IEC 60825-1
[Sn] nominal sensing distance	5 m diffuse with background suppression

Complementary

Enclosure material ABS/PC Lens material PMMA Maximum sensing distance 5 m diffuse with background suppression Output type Solid state Add on input External teach Status LED 1 LED (yellow) for output state 1 LED (green/yellow) for supply on/output state 1 LED (green/yellow) for supply on/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 1830 V DC Switching capacity in mA <= 100 mA (overload and short-circuit protection) Switching frequency <= 500 Hz Maximum voltage drop <1.5 V (closed state) Current consumption <= 60 mA no-load Maximum delay first up 300 ms Maximum delay response 2 ms Maximum delay recovery 2 ms Setting-up Using teach button or remote teaching Depth 50 mm Height 50 mm Net weight 0.035 kg	Complementary	
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Depth 50 mm Height 50 mm Width 23 mm	Maximum delay recovery	2 ms
Height 50 mm Width 23 mm	Setting-up	Using teach button or remote teaching
Width 23 mm	Depth	50 mm
	Height	50 mm
Net weight 0.035 kg	Width	23 mm
	Net weight	0.035 kg

Environment

Product certifications	Ecolab[RETURN]CE[RETURN]cULus
Ambient air temperature for operation	-2050 °C, UL certified -4060 °C
Ambient air temperature for storage	-4080 °C
Vibration resistance	7 gn, amplitude = +/- 1.5 mm (f = 1055 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 IEC 60529 IP69K conforming to DIN 40050

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	2.8 cm	
Package 1 Width	9.0 cm	
Package 1 Length	6.0 cm	
Package 1 Weight	56.0 g	
Unit Type of Package 2	S01	
Number of Units in Package 2	28	
Package 2 Height	15.0 cm	
Package 2 Width	15.0 cm	
Package 2 Length	40.0 cm	
Package 2 Weight	1.765 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
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

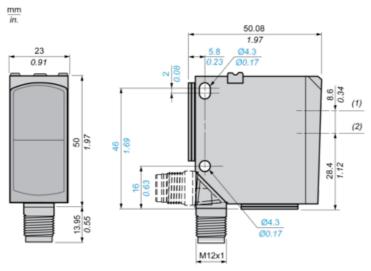
Warranty	18 months



Product data sheet Dimensions Drawings

XUK8TAKSMM12

Dimensions



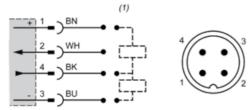
- (1) Transmitter optical axis
- (2) Receiver optical axis

Product data sheet Connections and Schema

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Connections and Schema

Connector Wiring



(1) Auto-detect

1: + UB (BN: Brown)

2: IN (WH: White)

3: -UB (BU: Blue)

4: Q/IO-Link (BK: Black)

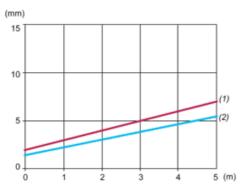
Note: In OI-Link mode, a 4-pin cable must be used.

Product data sheet Performance Curves

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Curves

Size of light spot (typical)

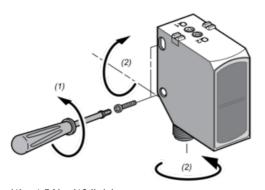


- (1) Vertical (y)
- (2) Horizontal (x)
- 0...15 mm : Size
- 0...5 m : Distance

Product data sheet Mounting and Clearance

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Mounting



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