Specifications



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

XUK8TAE1MM12

Main

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Range of product	Telemecanique Photoelectric sensors XU
Series name	Application assembly Application material handling
Electronic sensor type	Photo-electric sensor
Sensor name	ХИК
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	010 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

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Enclosure material	ABS/PC
Lens material	РММА
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	1830 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
Product weight	0.035 kg

Environment

Product certifications	CE cULus Ecolab
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	1.752 kg

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
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

er, and Di-isodecyl phthalate (DIDP), which is known known to the

to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Contractual warranty

Warranty

18 months

Dimensions Drawings

Dimensions



(1) Transmitter optical axis

(2) Receiver optical axis

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Connections and Schema

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.

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Performance Curves

Curves

Size of light spot (typical)



(1) Vertical (y)(2) Horizontal (x)

0...15 mm : Size

0...5 m : Distance

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Performance Curves

Curves





Q : Switching output

(**1**) High

(1) High (2) Low

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Mounting and Clearance

Mounting



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

Recommended replacement(s)