XUK8TAKDMM12

photo-electric sensor - XUK - diffuse - Sn 5m 2output auto PNP/NPN

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 with background suppression
Material	Plastic
Type of output signal	Discrete
Wiring technique	5-wire
Discrete output type	PNP or NPN
Discrete output function	1 NO or 1 NC programmable
Electrical connection	1 male connector M12, 5 pins
Product specific application	Distance measurement on object Suppression of a background
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
Wire insulation material	PVC
Status LED	1 LED (yellow) for output state 1 LED (green/yellow) for supply on/output state
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Supply voltage limits	10…30 V DC
Switching capacity in mA	<= 100 mA (overload and short-circuit protection)
Switching frequency	<= 250 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
Width	23 mm
Net weight	0.035 kg

Environment

Product certifications	CULus CE 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	59 g
Package 1 Height	3 cm
Package 1 width	6 cm
Package 1 Length	9.2 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

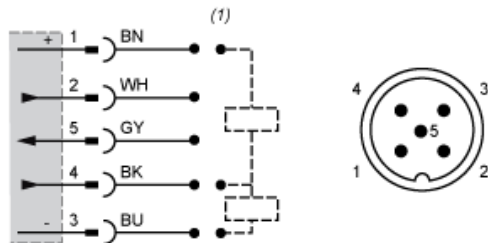|	
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes

Contractual warranty

Warranty	18 months

Dimensions

mm
in.

50.08
1.97

23
0.91

5.8
0.23

Ø4.3
Ø0.17

2
0.08

8.6
0.34

(1)

(2)

50
1.97

46
1.69

28.4
1.12

16
0.63

13.95
0.55

Ø4.3
Ø0.17

M12x1

(1)   Transmitter optical axis
(2)   Receiver optical axis
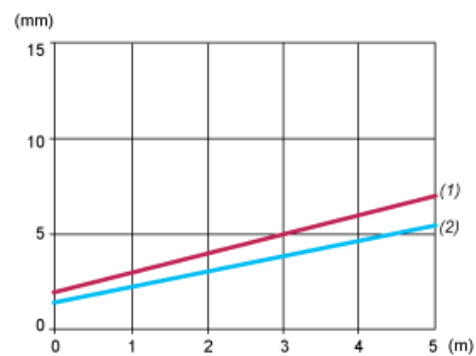
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Connections and Schema

Connector Wiring

(1)   Auto-detect
1 :   + UB (BN: Brown)
2 :   Q2 (WH: White)
3 :   -UB (BU: Blue)
4 :   Q1(BK: Black)
5 :   IN (GY: Grey)

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Sensors

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Curves

Size of light spot (typical)
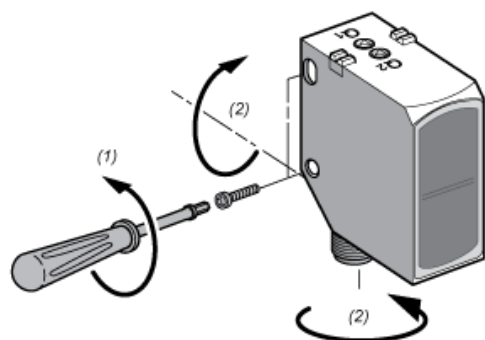

(1) Vertical (y)
(2) Horizontal (x)
0…   Size
15
mm :
0…5 Distance
m :

Mounting

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

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