XUK8TAKSMM12

photo-electric sensor - XUK - diffuse - Sn 5m 1Q auto PNP/NPN

Main

Range of product	OsiSense 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	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 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 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
Voltage drop	<= 1.5 V (closed state)

May 31, 2019

Current consumption	<= 60 mA (no-load)
Delay first up	< 300 ms
Delay response	< 2 ms
Delay recovery	< 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

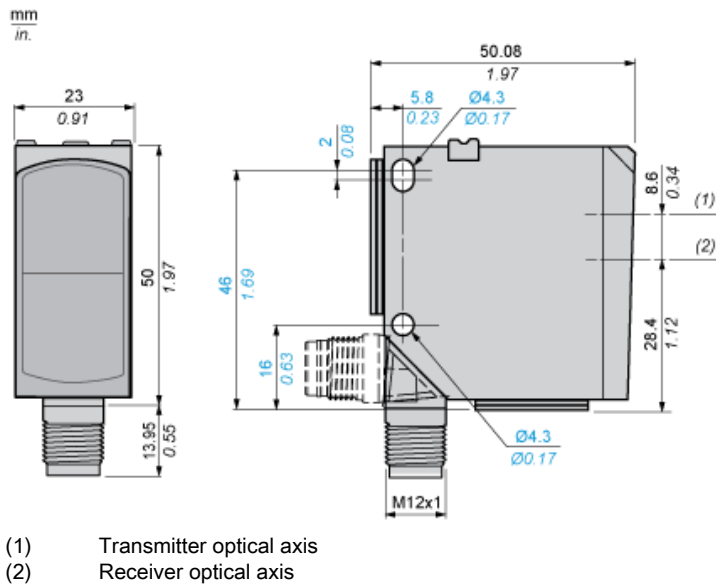|	
Product certifications	CE Ecolab cULus
Ambient air temperature for operation	-40...60 °C -20...50 °C, UL certified
Ambient air temperature for storage	-40...80 °C
Vibration resistance	7 gn, amplitude = +/- 1.5 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
Shock resistance	30 gn (duration = 11 ms) conforming to IEC 60068-2-27
IP degree of protection	IP67 conforming to IEC 60529 IP69K conforming to DIN 40050

Offer Sustainability

RoHS (date code: YYWW)	Will not be compliant
	Will not be compliant

Contractual warranty

Warranty period	18 months

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Dimensions

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

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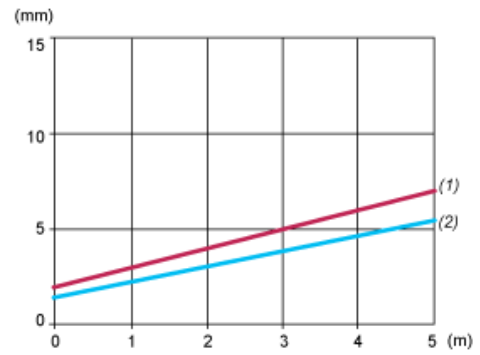## Connections and Schema

Connector Wiring
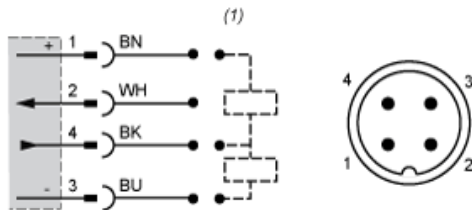
(1)   Auto-detect
1 :   + UB (BN: Brown)
2 :   IN (WH: White)
3 :   -UB (BU: Blue)
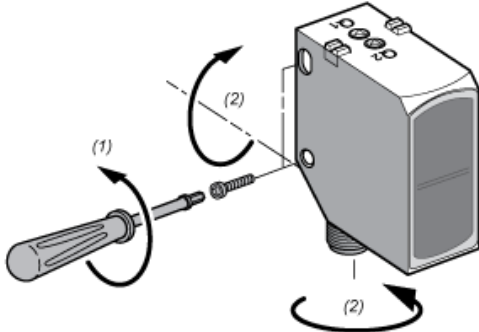4 :   OUT (BK: Black)

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Curves

Size of light spot (typical)

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

Mounting

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