

XUYFNEP100050

photo-electric sensor - XUY - fork - pot +/- -
50X95mm - 12..24VDC - M8



Main

Range of product	OsiSense XU
Series name	Application
Electronic sensor type	Photo-electric sensor
Sensor name	XUY
Sensor design	Fork
Detection system	Thru beam
Emission	Infrared LED, modulated
Passage width	50 mm
Passage depth	95 mm
Material	Metal/plastic
Supply circuit type	DC
Wiring technique	4-wire
Discrete output type	PNP and NPN
Discrete output function	1 NO or 1 NC programmable
Electrical connection	1 male connector M8, 4 pins
Product specific application	Detection of labels Detection on small conveyor Detection of double sheet Detection on vibrating rail Detection of reference marks
[Sn] nominal sensing distance	50 mm

Complementary

Enclosure material	Painted aluminium and polyamide/glass
Keypad type	Green
Minimum object diameter for detection	0.2 mm
Type of output signal	Discrete
Output type	Solid state
Status LED	Adjustment mode and keypad locking: 1 LED (red) Output state: 1 LED (yellow)
[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	10 kHz
Maximum voltage drop	<2 V (closed state)
Current consumption	40 mA no-load
Load capacitance	330 nF
Time response	-20...20 µs
Setting-up	Sensitivity by numeric potentiometer
Net weight	0.19 kg

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Environment

Product certifications	CULus CE
Ambient air temperature for operation	-20...60 °C
Ambient air temperature for storage	-30...80 °C
Immunity to ambient light	10000 Lux natural light 5000 lux incandescent bulb
Vibration resistance	7 gn, amplitude = +/- 0.75 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	IP65 conforming to IEC 60529

Packing Units

Package 1 Weight	0.097 kg
Package 1 Height	0.150 dm
Package 1 width	1.320 dm
Package 1 Length	1.640 dm

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
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Technical drawing of a mechanical part with dimensions in mm and in. The drawing shows a side view and a top view. The side view dimensions are: 10 (0.39), 11 (0.43), 19 (0.75), 10 (0.39), 7 (0.28), 10 (0.39), 11 (0.43), 19 (0.75), 10 (0.39), 7 (0.28). The top view dimensions are: 10 (0.39), 11 (0.43), 19 (0.75), 10 (0.39), 7 (0.28), 10 (0.39), 11 (0.43), 19 (0.75), 10 (0.39), 7 (0.28). The drawing also includes a detail view of a hole with dimensions 3 (0.12) and 9 (0.35). The drawing is labeled with 'mm' and 'in.' at the top left.

Dimensions in mm

A	B	b1	C
50	95	110	40

Dimensions in in.

A	B	b1	C
1.97	3.74	4.33	1.57

Wiring Schemes

M8 Connector



- 1 : BN: Brown
- 2 : WH: White
- 3 : BU: Blue
- 4 : BK: Black

4-Wire, PNP/NPN Outputs



- BN : Brown
- WH : White
- BK : Black
- BU : Blue