

XUYFNEP100120

photo-electric sensor - XUY - fork - pot +/- -
120X95mm - 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	120 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 on small conveyor Detection of double sheet Detection of labels Detection on vibrating rail Detection of reference marks
[Sn] nominal sensing distance	120 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

The information provided in this documentation contains general descriptions and/or technical characteristics of the products of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Environment

Product certifications	CE CULus
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	0.121 kg
Package 1 Height	0.150 dm
Package 1 width	1.320 dm
Package 1 Length	1.650 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 U-shaped metal bracket. The drawing includes a side view on the left and a top view on the right. Dimensions are provided in millimeters (mm) and inches (in.).

Side View Dimensions:

- Top flange width: 10 mm (0.39 in.)
- Top flange thickness: 0.39 in.
- Vertical height: b_1
- Bottom flange thickness: 7 mm (0.28 in.)

Top View Dimensions:

- Overall width: 19 mm (0.75 in.)
- Inner width: 11 mm (0.43 in.)
- Distance from inner edge to center of hole: A
- Distance from center of hole to outer edge: 6 mm (0.24 in.)
- Distance from center of hole to center of hole: (1)
- Distance from center of hole to center of hole: 3 mm (0.12 in.)
- Distance from center of hole to center of hole: 8 mm (0.31 in.)
- Distance from center of hole to center of hole: B
- Distance from center of hole to center of hole: 10 mm (0.39 in.)
- Distance from center of hole to center of hole: 5 mm (0.20 in.)
- Distance from center of hole to center of hole: C
- Distance from center of hole to center of hole: 6 mm (0.24 in.)
- Distance from center of hole to center of hole: 9 mm (0.35 in.)
- Distance from center of hole to center of hole: 0.35 in.
- Distance from center of hole to center of hole: 0.24 in.

Material and Finish:

- Material: 5x04
- Finish: 5x0.16

Dimensions in mm

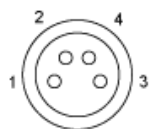
A	B	b1	C
120	95	110	110

Dimensions in in.

A	B	b1	C
4.72	3.74	4.33	4.33

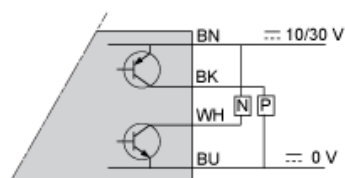
Wiring Schemes

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