

XUYFNEP60080

photo-electric sensor - XUY - fork - pot +/- -
80X59mm - 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	80 mm
Passage depth	59 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 reference marks Detection on vibrating rail Detection of labels Detection of double sheet
[Sn] nominal sensing distance	80 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	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

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	89 g
Package 1 Height	1.8 cm
Package 1 width	13.2 cm
Package 1 Length	16.2 cm
Unit Type of Package 2	S01
Number of Units in Package 2	12
Package 2 Weight	1.285 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
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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 mm (0.015 in.)
- Overall height: b1
- 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 width to centerline: A
- Distance from centerline to outer edge: 0.75 mm (0.024 in.)
- Distance from centerline to hole center: (1)
- Hole diameter: 3 mm (0.12 in.)
- Distance from hole center to outer edge: 9 mm (0.35 in.)
- Overall height: B
- Distance from bottom flange to hole center: 10 mm (0.39 in.)
- Distance from hole center to bottom flange: 5 mm (0.20 in.)
- Distance from hole center to centerline: 8 mm (0.31 in.)
- Distance from centerline to outer edge: 6 mm (0.24 in.)
- Distance from centerline to hole center: C
- Distance from hole center to outer edge: 6 mm (0.24 in.)
- Bottom flange thickness: 6 mm (0.24 in.)

Notes:

- 5xØ4 (5 holes, 4 mm diameter)
- 5xØ0.16 (5 holes, 0.16 mm diameter)

Dimensions in mm

A	B	b1	C
80	59	74	70

Dimensions in in.

A	B	b1	C
3.15	2.32	2.91	2.76

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