



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 laser, modulated - class 1 IEC 825-1
Passage width	1.97 in (50 mm)
Passage depth	2.32 in (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 vibrating rail Detection of reference marks Detection of transparent object Detection on small conveyor
[Sn] nominal sensing distance	1.97 in (50 mm)

Complementary

Enclosure material	Painted aluminium and polyamide/glass
Keypad type	Green
Minimum object diameter for detection	0.00 in (0.05 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 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	0.42 lb(US) (0.19 kg)

Environment

Product certifications	CULus CE
Ambient air temperature for operation	-4...140 °F (-20...60 °C)
Ambient air temperature for storage	-22...176 °F (-30...80 °C)
Immunity to ambient light	10000 lux natural light 5000 lux incandescent bulb
Vibration resistance	7 gn +/- 0.75 mm 10...55 Hz) IEC 60068-2-6
Shock resistance	30 gn 11 ms) IEC 60068-2-27
IP degree of protection	IP65 IEC 60529

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	3.17 oz (90 g)
Package 1 Height	0.59 in (1.5 cm)
Package 1 width	6.30 in (16 cm)
Package 1 Length	5.12 in (13 cm)

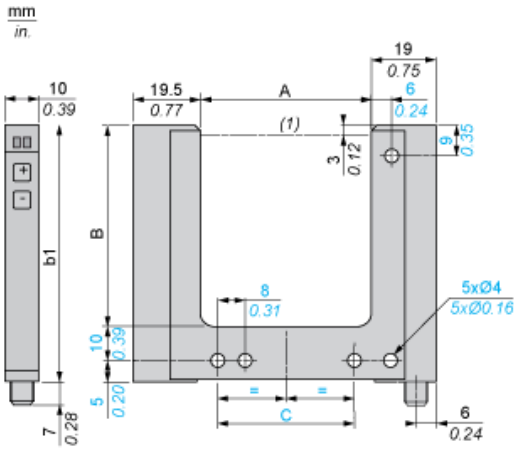
Offer Sustainability

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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Dimensions



(1) Optical axis

Dimensions in mm

A	B	b1	C
50	59	74	40

Dimensions in in.

A	B	b1	C
1.97	2.32	2.91	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