

XUYPCO925L3ANSP

photo-electric sensor - XUY - diffuse - analog
laser - Sn 0.3m - 12..24VDC - M12



Main

Range of product	OsiSense XU
Series name	Application material handling
Electronic sensor type	Photo-electric sensor
Sensor name	XUY
Sensor design	Compact 50 x 50
Detection system	Diffuse
Material	Plastic
Supply circuit type	DC
Wiring technique	5-wire
Discrete output type	PNP
Analogue output range	4...20 mA
Electrical connection	1 male connector M12, 5 pins
Product specific application	Measuring thickness of mechanical parts Position control of robot arm
Emission	Red laser, pulsed, wavelength: 650 nm - class 1 conforming to IEC 825-1
[Sn] nominal sensing distance	80...300 mm

Complementary

Enclosure material	ABS, anti-shock
Pulse frequency	2.5 kHz
Linearity	< 0.25 %
Spot diameter	5.25 mm at 80 mm
Spot dimension	1.5 x 3.5 mm at 80 mm
Resolution	200 µm
Status LED	Supply on: 1 LED (green) Dirty: 1 LED (red)
[Us] rated supply voltage	24 V DC with reverse polarity protection
Supply voltage limits	18...28 V DC
Switching capacity in mA	100 mA (overload and short-circuit protection)
Switching frequency	< 40 Hz
Maximum voltage drop	<2.4 V (closed state)
Current consumption	40 mA no-load
Maximum delay response	40 Ms for output circuit medium speed mode 0.4 ms for output circuit fast speed mode
Setting-up	Parameterizing by buttons
Net weight	0.057 kg




Environment

Product certifications	CE
Ambient air temperature for operation	0...45 °C
Ambient air temperature for storage	-20...60 °C
Immunity to ambient light	5000 lux natural light
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

Packing Units

Package 1 Weight	0.058 kg
Package 1 Height	0.300 dm
Package 1 width	0.700 dm
Package 1 Length	1.000 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

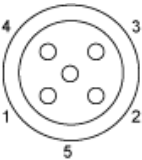
Contractual warranty

Warranty	18 months
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- (1) 2 elongated holes $\varnothing 4.3 \times 4$
- (2) Transmitter optical axis
- (3) Receiver optical axis

Wiring Schemes

M12



- 1 : Brown
- 2 : White
- 3 : Blue
- 4 : Black
- 5 : Grey

PNP Output

PNP	BN	18-28 V
	WH	QA
	BU	0 V
	BK	Q
	GY	IN

- BN : Brown : 18-28V
- WH : White : 4-20 mA analogue output (R< 500 Ohm)
- BU : Blue : 0 V
- BK : Black : OUT/Output
- GY : Grey : IN

Adjustment Curves

