



## 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	4-wire
Analogue output range	0...10 V
Electrical connection	1 male connector M12, 4 pins
Product specific application	Measuring thickness of mechanical parts Position control of robot arm
Emission	Red laser, pulsed (class 1), wavelength: 650 nm conforming to IEC 825-1
[Sn] nominal sensing distance	45...85 mm

## Complementary

Enclosure material	ABS, anti-shock
Pulse frequency	6 kHz
Linearity	< 1 %
Spot diameter	0.03 in (0.8 mm) at 65 mm
Spot dimension	Ø 0.8 mm at 65 mm
Resolution	20 µm
Status LED	1 LED (green) supply on 1 LED (red) dirty
[Us] rated supply voltage	24 V DC with reverse polarity protection
Supply voltage limits	18...28 V DC
Switching capacity in mA	3 mA (overload and short-circuit protection)
Switching frequency	< 40 Hz
Voltage drop	<= 2.4 V (closed state)
Current consumption	35 mA (no-load)
Delay response	30 ms output circuit
Setting-up	Parameterizing by buttons
Product weight	0.13 lb(US) (0.057 kg)

## Environment

product certifications	CE
ambient air temperature for operation	32...113 °F (0...45 °C)
ambient air temperature for storage	-4...140 °F (-20...60 °C)
immunity to ambient light	5000 lux with 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

## Offer Sustainability

WARNING: This product can expose you to chemicals including:

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Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and

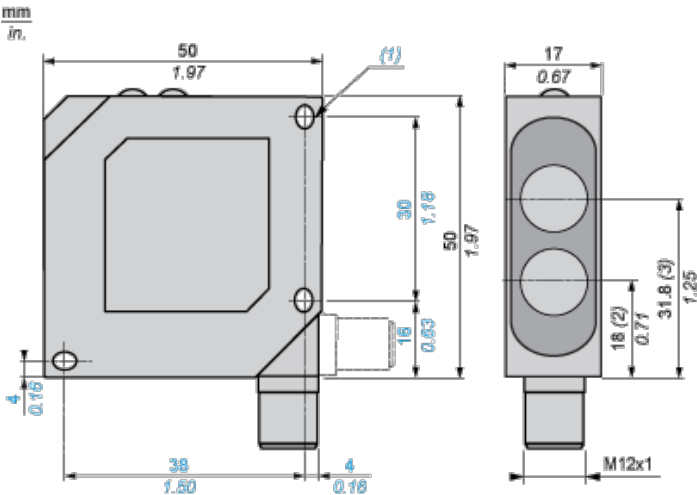
Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.

For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov) For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

Contractual warranty

Warranty period	18 months
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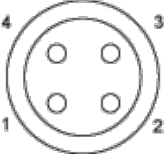
Dimensions



- (1) 2 elongated holes Ø 4.3 x 4
- (2) Transmitter optical axis
- (3) Receiver optical axis

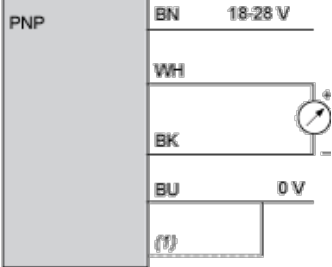
Wiring Schemes

M12



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

PNP Output



- (+) Brown
- BN :
- WH :White
- (-) Blue
- BU :
- BK : Black
- (1) Shielding

**NOTE:** Shielded cable recommended

**Adjustment Curves**

