



**Main**

Range of product	Telemecanique Photoelectric sensors 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	Parametering 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

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.000 cm
Package 1 Width	7.000 cm
Package 1 Length	10.000 cm
Package 1 Weight	58.000 g
Unit Type of Package 2	S01
Number of Units in Package 2	10
Package 2 Height	15 cm
Package 2 Width	15 cm
Package 2 Length	40 cm
Package 2 Weight	771.000 g

## Offer Sustainability

California proposition 65	WARNING: This product can expose you to chemicals including: Diisobutyl 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. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
For all Reach Rohs enquiries contact us at	<a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>

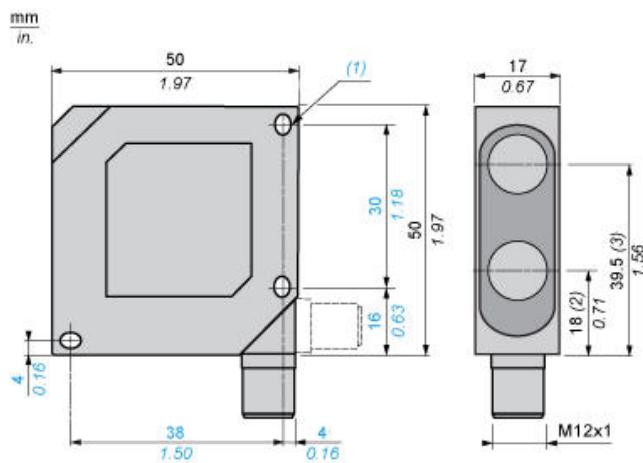
## Contractual warranty

Warranty	18 months
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Dimensions

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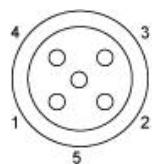
- (1) 2 elongated holes Ø 4.3 x 4
- (2) Transmitter optical axis
- (3) Receiver optical axis

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[Wiring Schemes](#)

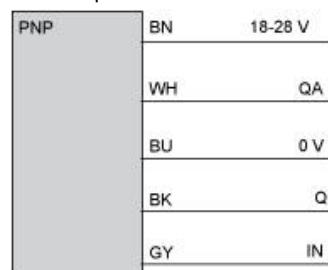
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M12



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

PNP Output



BN : Brown : 18-28V

WH : White : 4-20 mA analogue output ( $R < 500 \text{ Ohm}$ )

BU : Blue : 0 V

BK : Black : OUT/Output

GY : Grey : IN

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Adjustment Curves

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