



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	4-wire
Analogue output range	0...10 V
Electrical connection	1 male connector M12, 4 pins
Product specific application	Position control of robot arm Measuring thickness of mechanical parts
Emission	Red laser, pulsed, wavelength: 650 nm - class 1 conforming to IEC 825-1
[Sn] nominal sensing distance	40...60 mm

Complementary

Enclosure material	ABS, anti-shock
Pulse frequency	6 kHz
Linearity	< 1 %
Spot diameter	1 mm at 50 mm
Spot dimension	Ø 1 mm at 50 mm
Resolution	7 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	3 mA (overload and short-circuit protection)
Switching frequency	< 40 Hz
Maximum voltage drop	<2.4 V (closed state)
Current consumption	35 mA no-load
Maximum delay response	30 ms for output circuit
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

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	36 g
Package 1 Height	3 cm
Package 1 width	6 cm
Package 1 Length	10 cm
Unit Type of Package 2	S01
Number of Units in Package 2	10
Package 2 Weight	720 g
Package 2 Height	15 cm
Package 2 width	15 cm
Package 2 Length	40 cm

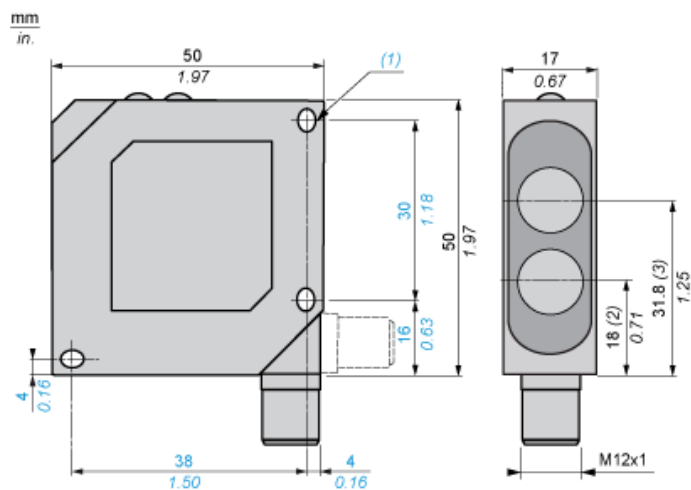
Offer Sustainability

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

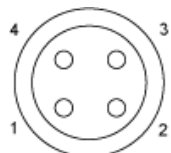
Warranty	18 months
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Dimensions



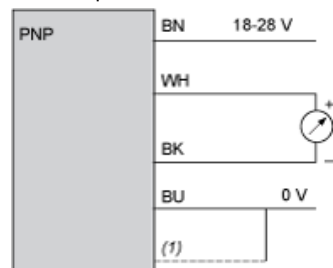
Wiring Schemes

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

