

Product data sheet

Specifications



Photoelectric sensors XU, XUY, diffuse, analog laser, Sn 0.3 m, 12...24 VDC, M12

XUYPCO925L3ANSP

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 | 3.0 cm |
| Package 1 Width | 7.0 cm |
| Package 1 Length | 10.0 cm |
| Package 1 Weight | 58.0 g |
| Unit Type of Package 2 | S01 |
| Number of Units in Package 2 | 10 |
| Package 2 Height | 15.0 cm |
| Package 2 Width | 15.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 771.0 g |

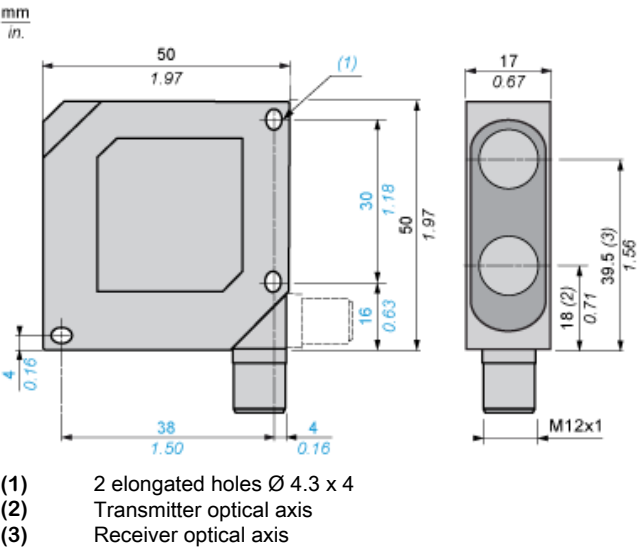
Offer Sustainability

| | |
|----------------------------|---|
| 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 |
| California proposition 65 | WARNING: This product can expose you to chemicals including: 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. For more information go to www.P65Warnings.ca.gov |

Contractual warranty

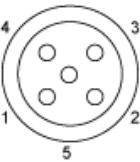
| | |
|----------|-----------|
| Warranty | 18 months |
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Dimensions



Wiring Schemes

M12



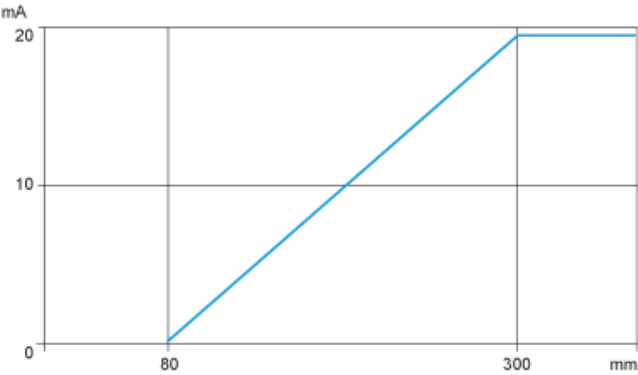
- 1 : Brown
- 2 : White
- 3 : Blue
- 4 : Black
- 5 : Grey

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



Recommended replacement(s)