

XUYFLNEP40050

Photoelectric sensors XU, photo electric sensor, XUY, fork, laser, pot +/-, 50X42mm, 12...24 VDC, M8



Main

Range of product	Telemecanique Photoelectric sensors XU
Series name	Application
Electronic sensor type	Photo-electric sensor
Sensor name	XUY
Sensor design	Fork
Detection system	Thru beam
Emission	Infrared laser, modulated - class 1 conforming to IEC 825-1
Passage width	50 mm
Passage depth	42 mm
Material	Metal/plastic
Supply circuit type	DC
Wiring technique	4-wire
Discrete output type	PNP and NPN
Discrete output function	1 NO or 1 NC programmable
Electrical connection	1 male connector M8, 4 pins
Product specific application	Detection on vibrating rail Detection on small conveyor Detection of transparent object Detection of reference marks
[Sn] nominal sensing distance	50 mm

Complementary

Enclosure material	Painted aluminium and polyamide/glass
Keypad type	Green
Minimum object diameter for detection	0.05 mm
Type of output signal	Discrete
Output type	Solid state
Status LED	Adjustment mode and keypad locking: 1 LED (red) Output state: 1 LED (yellow)
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Supply voltage limits	10...30 V DC
Switching capacity in mA	100 mA (overload and short-circuit protection)
Switching frequency	10 kHz
Maximum voltage drop	<2 V (closed state)
Current consumption	40 mA no-load
Load capacitance	330 nF
Time response	-20...20 µs
Setting-up	Sensitivity by numeric potentiometer
Net weight	0.19 kg

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Environment

Product certifications	CULus CE
Ambient air temperature for operation	-20...60 °C
Ambient air temperature for storage	-30...80 °C
Immunity to ambient light	10000 Lux natural light 5000 lux incandescent bulb
Vibration resistance	7 gn, amplitude = +/- 0.75 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	IP65 conforming to IEC 60529

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	80 g
Package 1 Height	1.5 cm
Package 1 width	16 cm
Package 1 Length	13 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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Technical drawing of a mechanical part, showing dimensions in mm and inches. The part is a U-shaped component with a central vertical section and two side sections. The central section has a width of 19.5 mm (0.77 in) and a height of 19 mm (0.75 in). The side sections have a width of 10 mm (0.39 in) and a height of 10 mm (0.39 in). The total width of the part is 39.5 mm (1.55 in). The part features five holes: two in the central section (5xØ4, 5xØ0.16) and three in the side sections (5xØ4, 5xØ0.16). The distance between the holes in the central section is 19.5 mm (0.77 in). The distance between the holes in the side sections is 10 mm (0.39 in). The distance between the holes in the central section and the side sections is 10 mm (0.39 in). The part is labeled with dimensions in mm and inches, and includes a note: 5xØ4 5xØ0.16.

Dimensions in mm

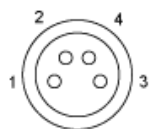
A	B	b1	C
50	42	57	40

Dimensions in in.

A	B	b1	C
1.97	1.65	2.24	1.57

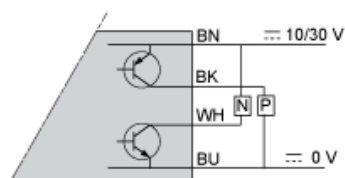
Wiring Schemes

M8 Connector



- 1 : BN: Brown
- 2 : WH: White
- 3 : BU: Blue
- 4 : BK: Black

4-Wire, PNP/NPN Outputs



- BN : Brown
- WH : White
- BK : Black
- BU : Blue