

# XUYFNEP60050

Photoelectric sensors XU, XUY, fork, pot +/-, 50X59mm, 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 LED, modulated
Passage width	50 mm
Passage depth	59 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 of reference marks Detection on small conveyor Detection on vibrating rail Detection of double sheet Detection of labels
[Sn] nominal sensing distance	50 mm

## Complementary

Enclosure material	Painted aluminium and polyamide/glass
Keypad type	Green
Minimum object diameter for detection	0.2 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

## Environment

Product certifications	CE[RETURN]cULus
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 Height	1.800 cm
Package 1 Width	13.000 cm
Package 1 Length	16.000 cm
Package 1 Weight	82.000 g
Unit Type of Package 2	S01
Number of Units in Package 2	12
Package 2 Height	15 cm
Package 2 Width	15 cm
Package 2 Length	40 cm
Package 2 Weight	1.173 kg

## Offer Sustainability

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 <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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Technical drawing of a mechanical part with dimensions in mm and in. The drawing shows a side view of a component with a central rectangular cutout. Dimensions are provided for various features:

- Top Flange:**
  - Overall width: 10 mm (0.39 in.)
  - Height: 7 mm (0.28 in.)
  - Central slot width: 11 mm (0.43 in.)
  - Slot depth: 3 mm (0.12 in.)
- Central Body:**
  - Overall width: 19 mm (0.75 in.)
  - Height: 10 mm (0.39 in.)
  - Central slot width: 11 mm (0.43 in.)
  - Slot depth: 3 mm (0.12 in.)
  - Distance from top flange to bottom flange: 11 mm (0.43 in.)
  - Distance from central slot to right edge: 6 mm (0.24 in.)
  - Distance from central slot to left edge: 6 mm (0.24 in.)
- Bottom Flange:**
  - Overall width: 19 mm (0.75 in.)
  - Height: 7 mm (0.28 in.)
  - Central slot width: 11 mm (0.43 in.)
  - Slot depth: 3 mm (0.12 in.)
  - Distance from top flange to bottom flange: 11 mm (0.43 in.)
  - Distance from central slot to right edge: 6 mm (0.24 in.)
  - Distance from central slot to left edge: 6 mm (0.24 in.)
- Other Dimensions:**
  - Distance from top flange to bottom flange: 11 mm (0.43 in.)
  - Distance from central slot to right edge: 6 mm (0.24 in.)
  - Distance from central slot to left edge: 6 mm (0.24 in.)
  - Distance from top flange to bottom flange: 11 mm (0.43 in.)
  - Distance from central slot to right edge: 6 mm (0.24 in.)
  - Distance from central slot to left edge: 6 mm (0.24 in.)

Dimensions in mm

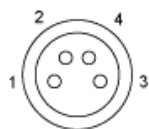
A	B	b1	C
50	59	74	40

Dimensions in in.

A	B	b1	C
1.97	2.32	2.91	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