

# XUYFNEP40120

Photoelectric sensors XU, XUY, fork, pot +/-,  
120X42mm, 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                 | 120 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 of labels<br>Detection of double sheet<br>Detection of reference marks<br>Detection on small conveyor<br>Detection on vibrating rail |
| [Sn] nominal sensing distance | 120 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)<br>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<br>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              | 13.200 cm |
| Package 1 Length             | 16.400 cm |
| Package 1 Weight             | 98.000 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             | 1.393 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 |
|----------|-----------|



## 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