

# XUYPS1LCO965S

Photoelectric sensors XU, XUY, BGS, laser, Sn  
300 mm, 12...24 VDC, M8



## Main

Range of product	Telemecanique Photoelectric sensors XU
Series name	Application, materials handling
Electronic sensor type	Photo-electric sensor
Sensor name	XUY
Sensor design	Compact
Detection system	Diffuse with background suppression
Material	Plastic
Type of output signal	Discrete
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	Control of level Monitoring of small parts on production machine Monitoring for crack on a component Suppression of a background Detection of components on a printed circuit
Emission	Red laser, pulsed, wavelength: 675 nm - class 2
[Sn] nominal sensing distance	50...300 mm

## Complementary

Enclosure material	Glass impregnated nylon
Lens material	PMMA
Spot diameter	0 mm manual adjustment
Minimum object diameter for detection	0.5 mm
Output type	Solid state
Status LED	Output state: 1 LED (green) NC function: 1 LED (none) NO function: 1 LED (red) Time delay active: 1 LED (red)
[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	> 5 kHz
Maximum voltage drop	<2 V (closed state)
Current consumption	35 mA
Maximum delay response	40 ms for output circuit depending on wiring
Maximum delay recovery	150 µs
Setting-up	Manual adjustment of focusing
Net weight	0.081 kg

## Environment

Product certifications	cULus[RETURN]CE
Ambient air temperature for operation	0...50 °C
Ambient air temperature for storage	-20...60 °C
Immunity to ambient light	10000 Lux natural light 500 lux incandescent bulb
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	3.400 cm
Package 1 Width	7.400 cm
Package 1 Length	12.800 cm
Package 1 Weight	73.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	35
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	2.860 kg

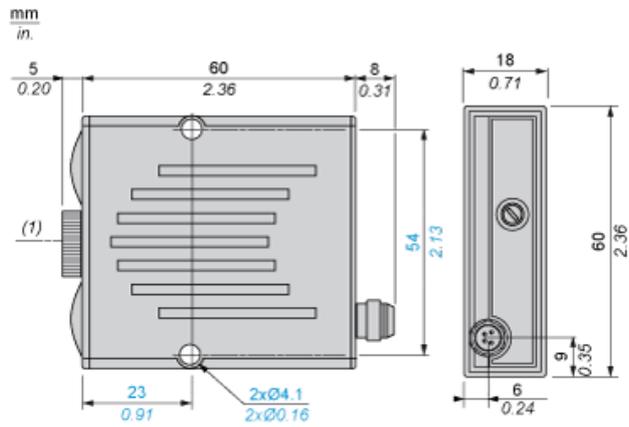
## Offer Sustainability

Sustainable offer status	Green Premium product
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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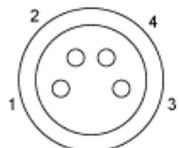
Dimensions



(1) Optical axis of laser

## Wiring Schemes

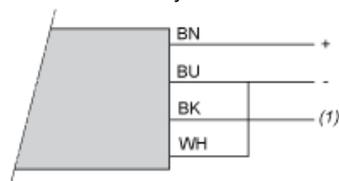
### M8 Connector



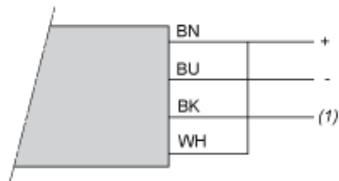
- 1 : Brown
- 2 : White
- 3 : Blue
- 4 : Black

### NO Function

Without time delay



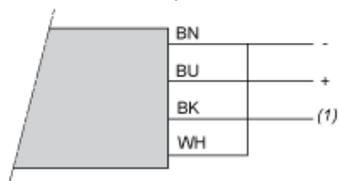
With 40 ms time delay



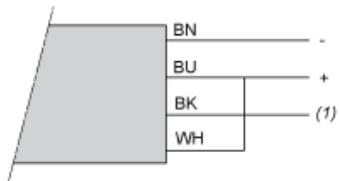
- BN : Brown
- WH : White
- BU : Blue
- BK : Black
- (1) Output

### NC Function

Without time delay



With 40 ms time delay



- BN : Brown
- WH : White
- BU : Blue
- BK : Black
- (1) Output