Product data sheet
Characteristics

XUYPS1LCO965S

photoelectric sensor - XUY - BGS - laser - Sn 300 mm - 12..24VDC - M8

Main

Range of product	OsiSense 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 Detection of components on a printed circuit Monitoring for crack on a component Monitoring of small parts on production machine Suppression of a background
Emission	Red laser, pulsed (class 2), wavelength: 675 nm
[Sn] nominal sensing distance	50...300 mm

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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	1 LED (green) for output state 1 LED (red) for time delay active 1 LED (none) for NC function 1 LED (red) for NO function
[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
Voltage drop	< 2 V (closed state)
Current consumption	35 mA
Delay response	40 ms for output circuit depending on wiring
Delay recovery	150 µs
Setting-up	Manual adjustment of focusing
Product weight	0.081 kg

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Environment

Product certifications	CE CULus
Ambient air temperature for operation	0...50 °C
Ambient air temperature for storage	-20...60 °C
Immunity to ambient light	10000 lux with natural light 500 lux with incandescent bulb
IP degree of protection	IP65 conforming to IEC 60529

Contractual warranty

Warranty period	18 months

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Dimensions
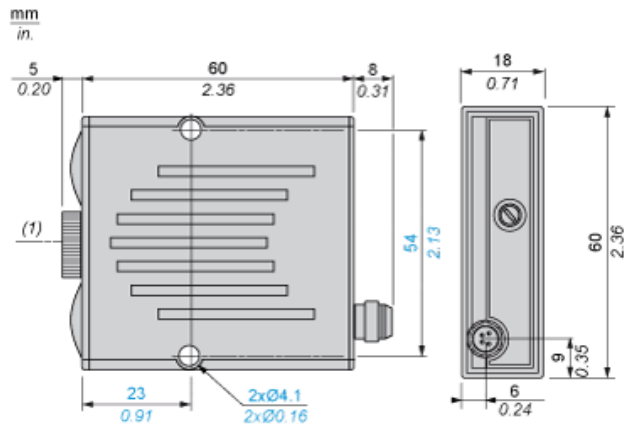
(1)   Optical axis of laser

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Wiring Schemes

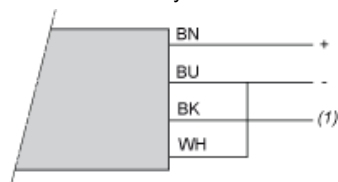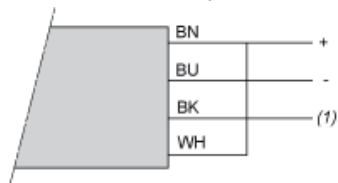### M8 Connector
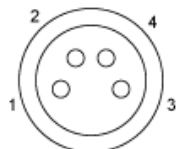
1 : Brown
2 : White
3 : Blue
4 : Black

NO Function

Without time delay

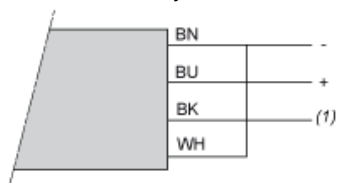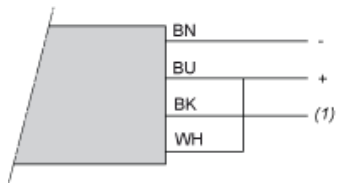
With 40 ms time delay

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

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