

# XUYPS2CO945S

Photoelectric sensors XU, XUY, BGS, 2 channels, Sn 600 mm, 12...24 VDC, M8



## Main

Range of product	Telemecanique Photoelectric sensors XU
Series name	Application material 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 filling 2 channels triangulation Detection of object on conveyor against reflective background
Emission	Infrared LED, modulated
[Sn] nominal sensing distance	50...600 mm

## Complementary

Enclosure material	Glass impregnated nylon
Output type	Solid state
Status LED	Output state: 1 LED (green)
[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	> 370 Hz
Maximum voltage drop	<2 V (closed state)
Current consumption	< 1.5 mA no-load
Maximum delay response	1.8 ms
Maximum delay recovery	1.8 ms
Net weight	0.055 kg

## Environment

Product certifications	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 1300 lux incandescent bulb
IP degree of protection	IP65 conforming to IEC 60529

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither TWSS Holding nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.600 cm
Package 1 Width	7.100 cm
Package 1 Length	13.000 cm
Package 1 Weight	79.000 g
Unit Type of Package 2	S01
Number of Units in Package 2	15
Package 2 Height	15 cm
Package 2 Width	15 cm
Package 2 Length	40 cm
Package 2 Weight	1.398 kg

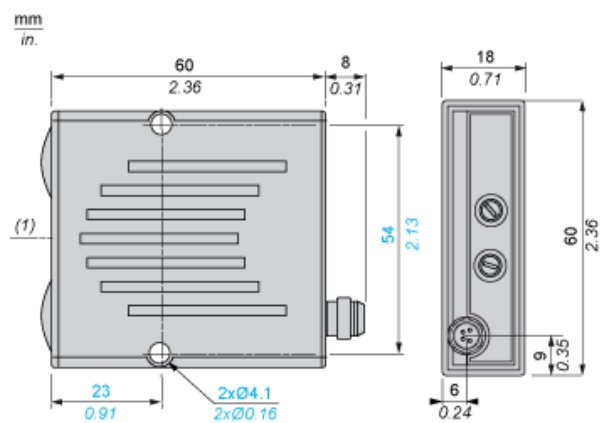
## Offer Sustainability

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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## Dimensions



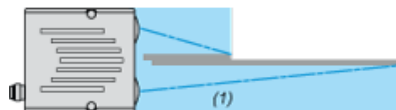
(1) Optical axis

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## Mounting and Clearance

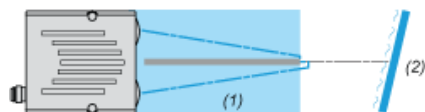
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### Two independent sensors with triangulation: A, B



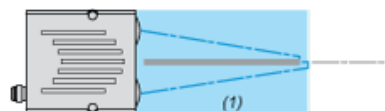
(1) Detected zones

### Immunity to reflection: A and B



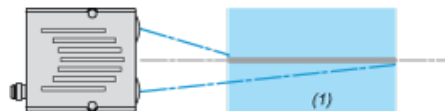
(1) Detected zones  
(2) Mirror

### Detection of contrasting objects: A or B



(1) Detected zones

### Monitoring of distance: A xor B

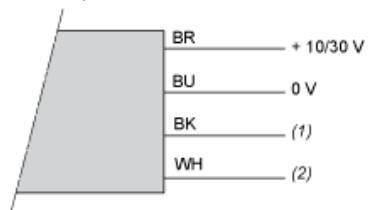


(1) Detected zones

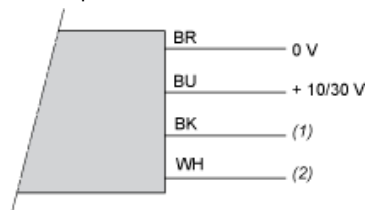
## Wiring Schemes and Outputs

### Two Independent Sensors with Triangulation: A, B

NO Output



NC Output



BN : Brown

BU : Blue

BK : Black

WH : White

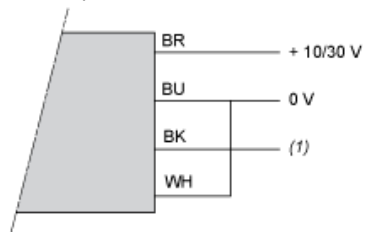
(1) Zone A output

(2) Zone B output

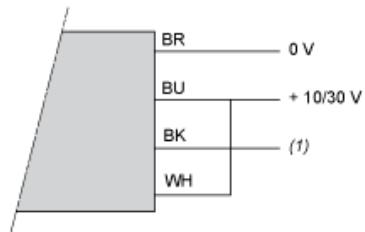
### Immunity to Reflection: A and B

Without Time Delay

NO Output



NC Output



BN : Brown

BU : Blue

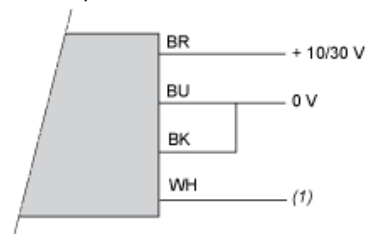
BK : Black

WH : White

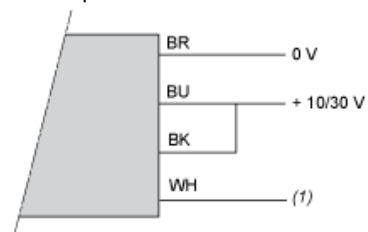
(1) Output

With 40 ms Time Delay

NO Output



NC Output



BN : Brown

BU : Blue

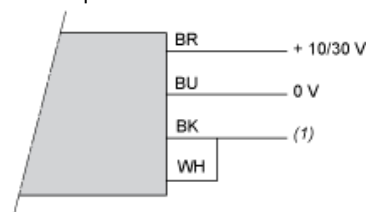
BK : Black

WH : White

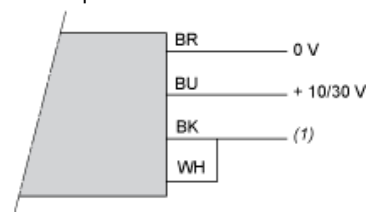
(1) Output

## Detection of Contrasting Objects: A or B

NO Output



NC Output



BN : Brown

BU : Blue

BK : Black

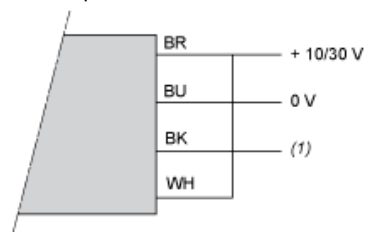
WH : White

(1) Output

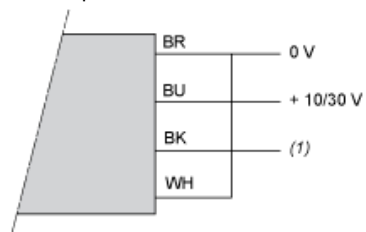
## Monitoring of Distance: A or B

Without Time Delay

NO Output



NC Output



BN : Brown

BU : Blue

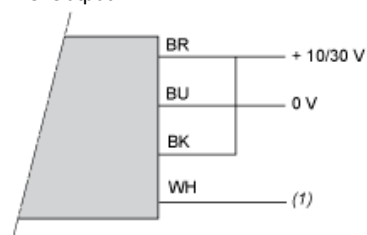
BK : Black

WH : White

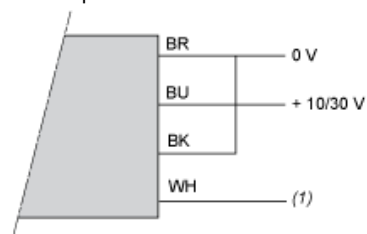
(1) Output

With 40 ms Time Delay

NO Output



NC Output



BN : Brown

BU : Blue

BK : Black

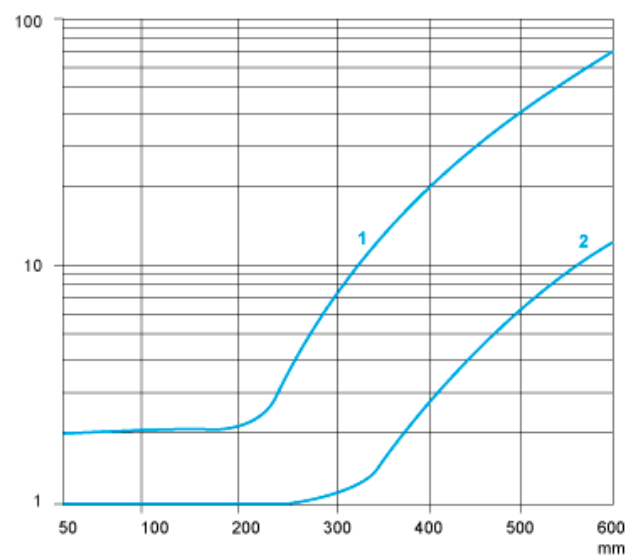
WH : White

(1) Output

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Detection Curves

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- 1 : Black 6%  
2 : Grey 18% - Distance (mm) set on 92% (Kodak 1527795)