



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

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

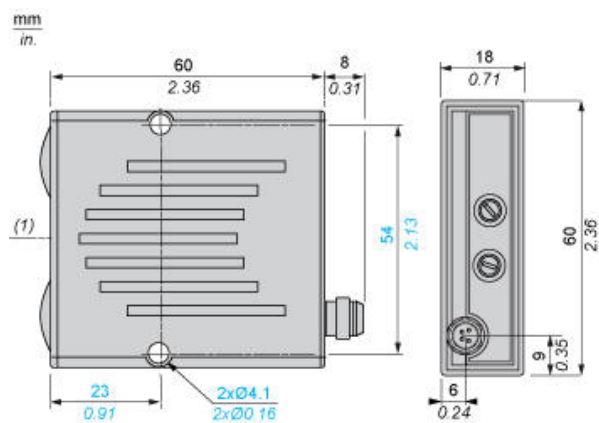
Offer Sustainability

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 www.P65Warnings.ca.gov
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

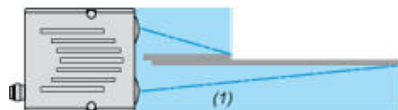
Warranty	18 months
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Dimensions



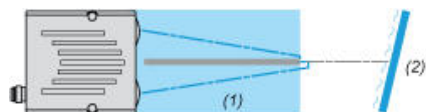
Mounting and Clearance

Two independent sensors with triangulation: A, B



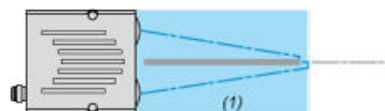
(1) Detected zones

Immunity to reflection: A and B



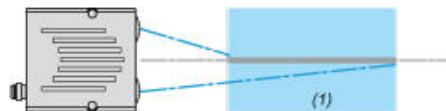
(1) Detected zones
(2) Mirror

Detection of contrasting objects: A or B



(1) Detected zones

Monitoring of distance: A xor B

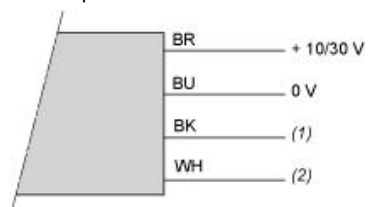


(1) Detected zones

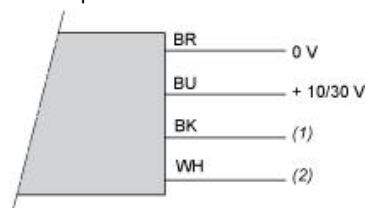
Wiring Schemes and Outputs

Two Independent Sensors with Triangulation: A, B

NO Output



NC Output



BN : Brown

BU : Blue

BK : Black

WH : White

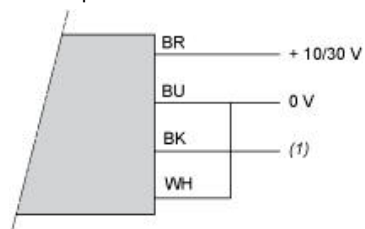
(1) Zone A output

(2) Zone B output

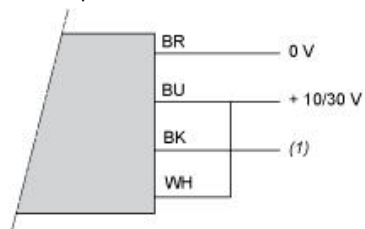
Immunity to Reflection: A and B

Without Time Delay

NO Output



NC Output



BN : Brown

BU : Blue

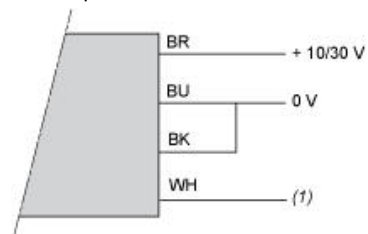
BK : Black

WH : White

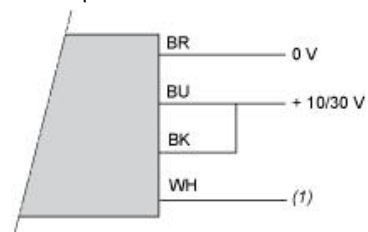
(1) Output

With 40 ms Time Delay

NO Output



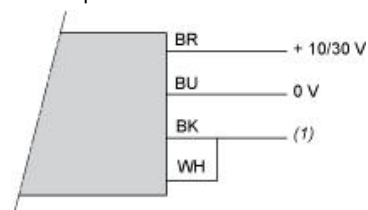
NC Output



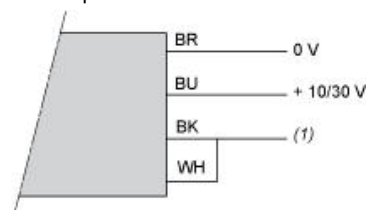
BN : Brown
BU : Blue
BK : Black
WH : White
(1) Output

Detection of Contrasting Objects: A or B

NO Output



NC Output

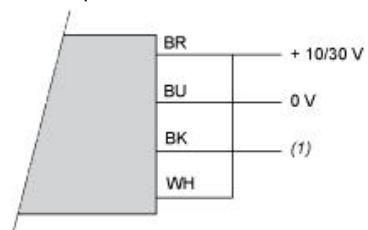


BN : Brown
BU : Blue
BK : Black
WH : White
(1) Output

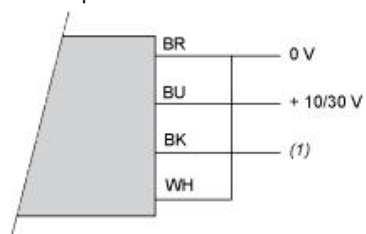
Monitoring of Distance: A or B

Without Time Delay

NO Output



NC Output



BN : Brown

BU : Blue

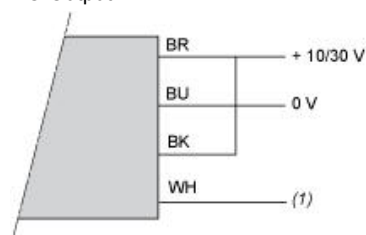
BK : Black

WH : White

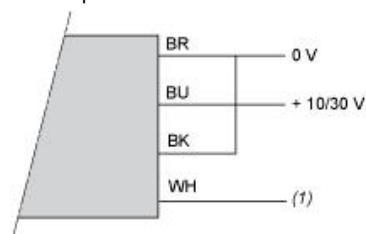
(1) Output

With 40 ms Time Delay

NO Output



NC Output



BN : Brown

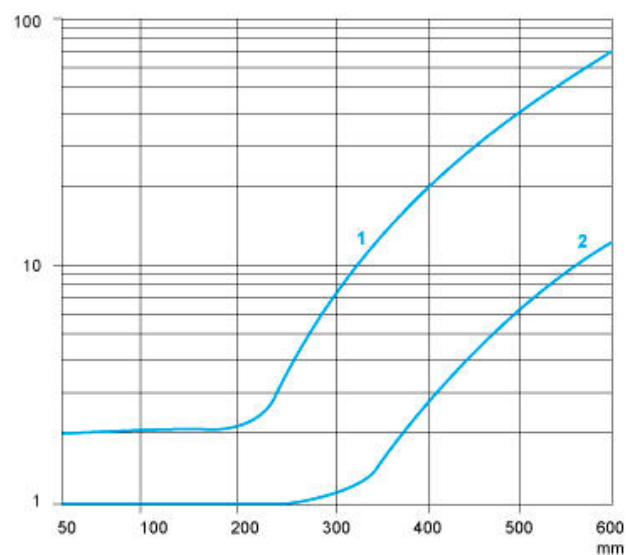
BU : Blue

BK : Black

WH : White

(1) Output

Detection Curves



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