

XUYPS2945S

photo-electric sensor - XUY - BGS - 2 channels
- Sn 600mm - 12..24VDC - cable 2m



Main

Range of product	OsiSense 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	Cable
Cable length	2 m
Product specific application	2 channels triangulation Control of filling 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	0.135 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

Package 1 Weight	0.172 kg
Package 1 Height	1.600 dm
Package 1 width	0.450 dm
Package 1 Length	1.100 dm

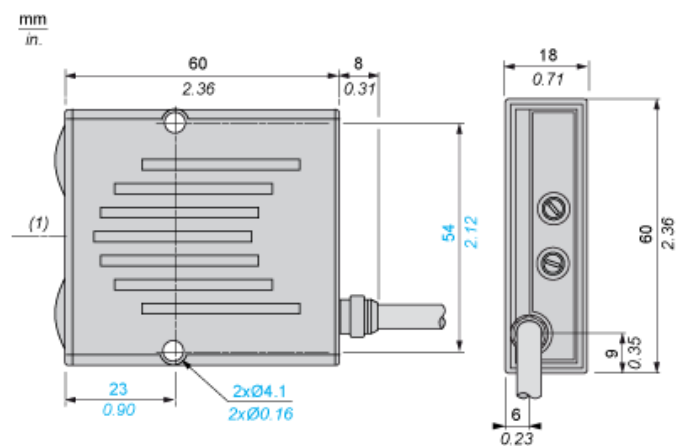
Offer Sustainability

REACH Regulation	 REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	 Yes

Contractual warranty

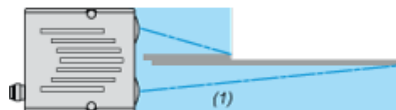
Warranty	18 months
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Dimensions



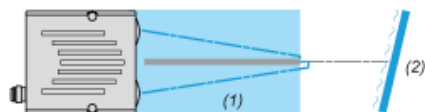
Mounting and Clearance

Two independent sensors with triangulation: A, B



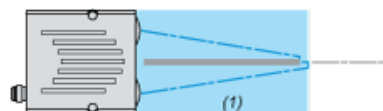
(1) Detected zones

Immunity to reflection: A and B



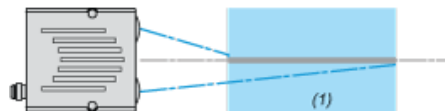
(1) Detected zones
(2) Mirror

Detection of contrasting objects: A or B



(1) Detected zones

Monitoring of distance: A xor B

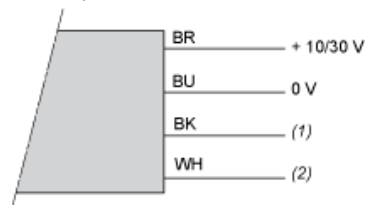


(1) Detected zones

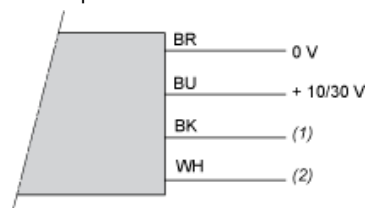
Wiring Schemes and Outputs

Two Independent Sensors with Triangulation: A, B

NO Output



NC Output



BN : Brown

BU : Blue

BK : Black

WH : White

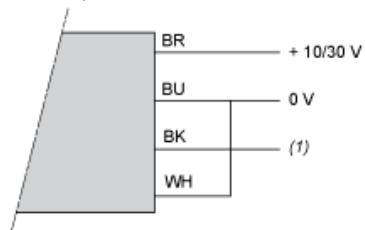
(1) Zone A output

(2) Zone B output

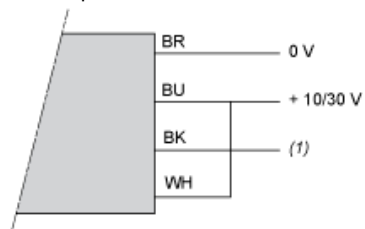
Immunity to Reflection: A and B

Without Time Delay

NO Output



NC Output



BN : Brown

BU : Blue

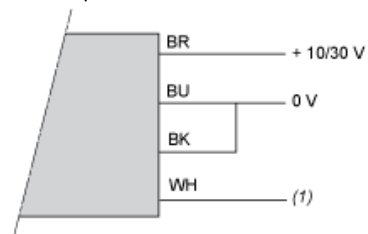
BK : Black

WH : White

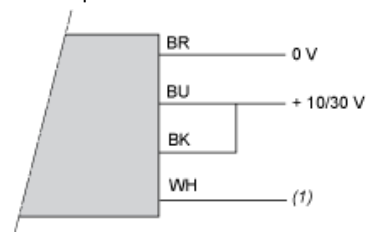
(1) Output

With 40 ms Time Delay

NO Output



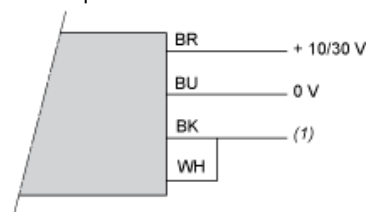
NC Output



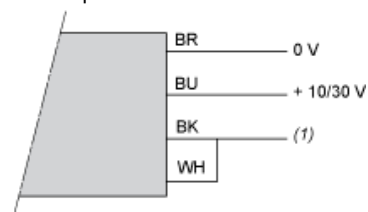
BN : Brown
BU : Blue
BK : Black
WH : White
(1) Output

Detection of Contrasting Objects: A or B

NO Output



NC Output

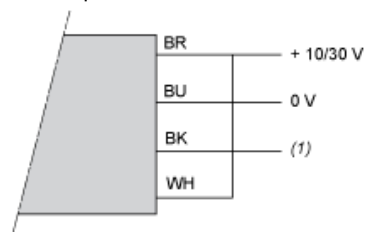


BN : Brown
BU : Blue
BK : Black
WH : White
(1) Output

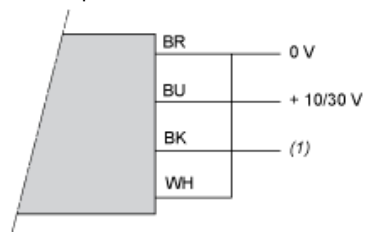
Monitoring of Distance: A or B

Without Time Delay

NO Output



NC Output



BN : Brown

BU : Blue

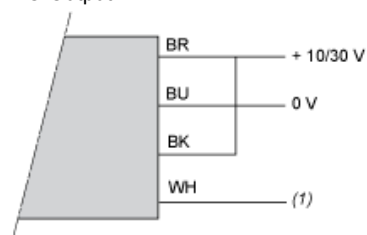
BK : Black

WH : White

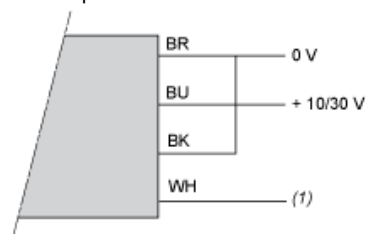
(1) Output

With 40 ms Time Delay

NO Output



NC Output



BN : Brown

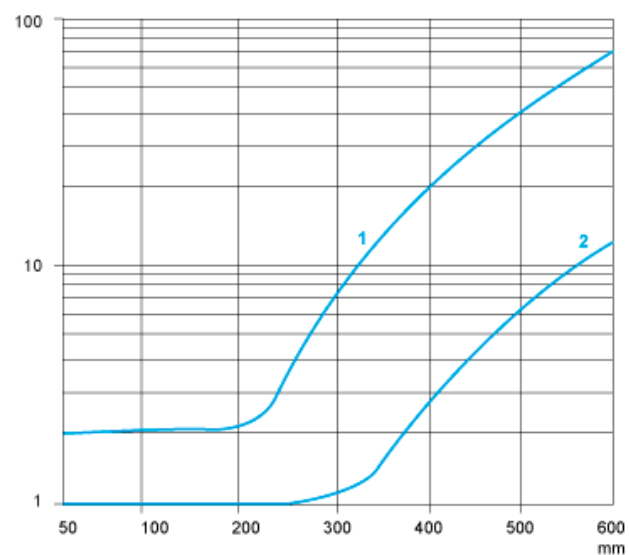
BU : Blue

BK : Black

WH : White

(1) Output

Detection Curves



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