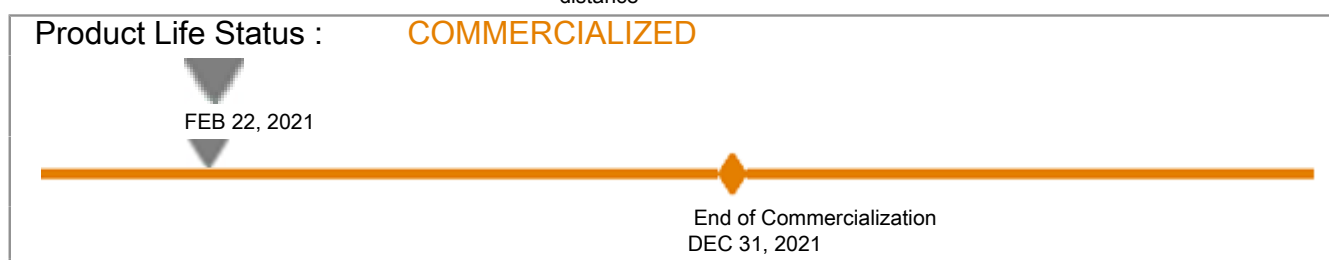


Main

Range of product	OsiSense XU
Series name	Application material handling
Electronic sensor type	Photo-electric sensor
Sensor name	XUE
Sensor design	Compact 90 x 90
Detection system	Diffuse
Material	Plastic
Supply circuit type	DC
Wiring technique	5-wire
Discrete output type	PNP
Discrete output function	2 NO/NC programmable
Analogue output range	4...20 mA
Electrical connection	1 male connector M12, 5 pins
Product specific application	Distance measurement on object
Emission	Infrared laser, pulsed, wavelength: 905 nm - class 1 conforming to IEC 600825-1 Red laser, pulsed, wavelength: 670 nm - class 2 conforming to IEC 600825-1
[Sn] nominal sensing distance	6 m



Complementary

Enclosure material	ABS, anti-shock
Lens material	PMMA
Linearity	<= +/- 40 mm
Spot dimension	4 x 12 mm at 6 meters
Status LED	Supply on: 1 LED (green) Output: 2 LEDs (yellow) Parameterizing: 4 LEDs (red) Slow mode: 1 LED (orange)
[Us] rated supply voltage	24 V DC with reverse polarity protection
Supply voltage limits	18...30 V DC
Switching capacity in mA	100 mA (overload and short-circuit protection)
Switching time	13 ms at fast mode 80 ms at slow mode

Maximum voltage drop	<2.4 V (closed state)
Current consumption	125 mA no-load
Maximum delay first up	80 Ms 13 ms
Maximum delay response	13 Ms fast mode 80 ms slow mode
Setting-up	Parameterizing by buttons
Height	93 mm
Length	95 mm
Width	42 mm
Net weight	0.2 kg

Environment

Product certifications	CE CULus
Ambient air temperature for operation	-10...50 °C
Ambient air temperature for storage	-40...80 °C
Vibration resistance	7 gn, amplitude = +/- 0.5 mm (f = 10...55 Hz) conforming to IEC 60947-5-2
Shock resistance	30 gn (duration = 11 ms) conforming to IEC 60947-5-2
IP degree of protection	IP67 conforming to IEC 60529

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	342 g
Package 1 Height	5.5 cm
Package 1 width	16 cm
Package 1 Length	23 cm
Unit Type of Package 2	S04
Number of Units in Package 2	10
Package 2 Weight	4.69 kg
Package 2 Height	30 cm
Package 2 width	40 cm
Package 2 Length	60 cm

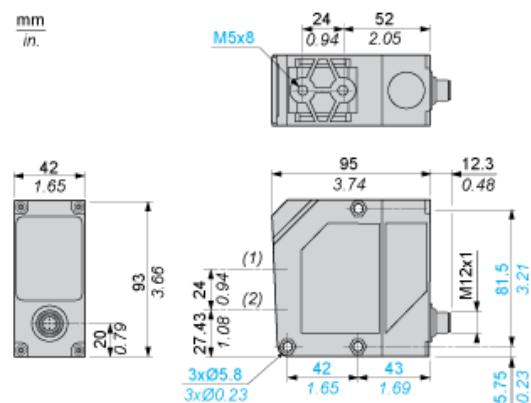
Offer Sustainability

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

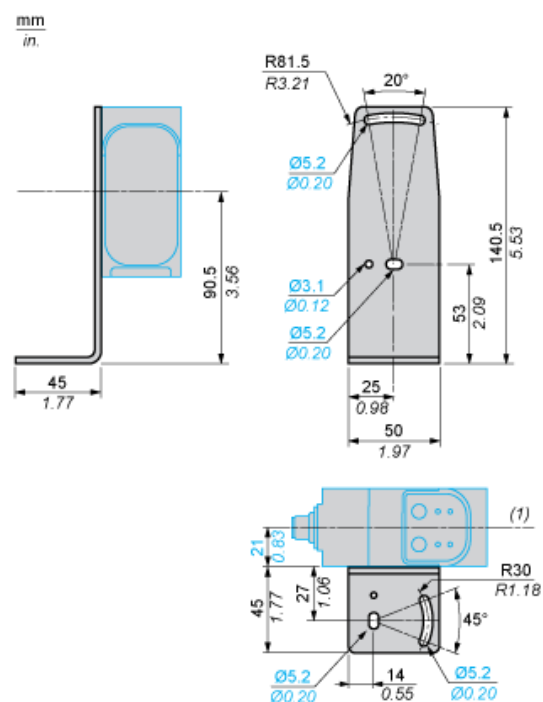
Warranty	18 months
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Dimensions



- (1) Receiver optical axis
(2) Transmitter optical axis

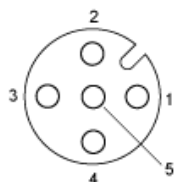
Dimensions with Fixing Bracket XUZA618



- (1) Optical axis

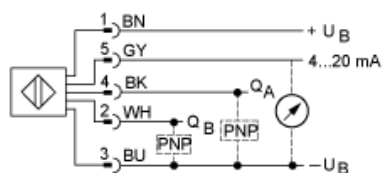
Wiring Schemes

M12 Connector



- 1 : $+U_B$
- 2 : Q_B
- 3 : $-U_B$
- 4 : Q_A
- 5 : 4...20mA

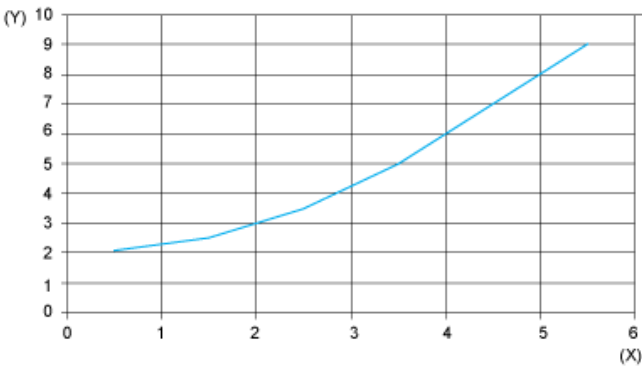
Output



- BN : Brown
- WH : White
- BU : Blue
- BK : Black
- GY : Grey

Curves

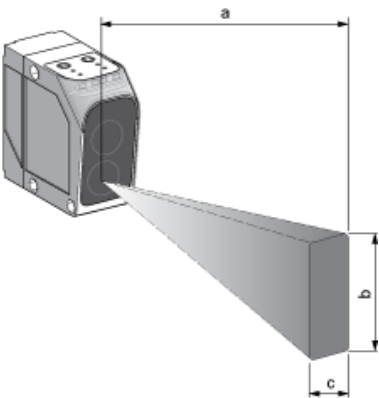
Minimum Size of Detectable Object Related to Distance



(y) Length of object (mm)
(x) Distance (m)

Curves

Light Spot Size (Not Visible)



a (m)	b (mm)	c (mm)
0	10	5
2	7	4
4	10	3
6	12	4