



Main

Range of product	OsiSense XU
Series name	Application packaging
Electronic sensor type	Photo-electric sensor
Product specific application	Detection of transparent object
Sensor name	XUBT
Sensor design	Cylindrical M18
Detection system	Reflex
Material	Plastic
Line of sight type	Axial
Supply circuit type	DC
Wiring technique	3-wire
Discrete output type	NPN
Discrete output function	1 NO or 1 NC programmable
Electrical connection	1 male connector M12, 4 pins
Emission	Coaxial polarised red reflex
[Sn] nominal sensing distance	0...1.4 m with reflector XUZ C50/C50HP

Complementary

Kit composition	Sensor Reflector XUZC50HP
Enclosure material	PBT
Lens material	PMMA
Beam angle	1.5 °
Blind zone	0 mm
Spot diameter	37 mm
Type of output signal	Discrete
Output type	Solid state
Status LED	Supply on: 1 LED (green) Stability: 1 LED (red) Output state: 1 LED (yellow)
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Supply voltage limits	10...32 V DC
Switching capacity in mA	100 mA (overload and short-circuit protection)
Switching frequency	1000 Hz
Maximum voltage drop	<1.5 V (closed state)
Current consumption	45 mA no-load
Maximum delay first up	200 ms
Maximum delay response	500 ms
Maximum delay recovery	500 ms
Net weight	0.045 kg

Environment

Product certifications	CE UL CSA
Ambient air temperature for operation	0...55 °C
Ambient air temperature for storage	-40...70 °C
Vibration resistance	7 gn, amplitude = +/- 1 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
Shock resistance	30 gn (duration = 11 ms) conforming to IEC 60068-2-27
IP degree of protection	IP65 conforming to IEC 60529 (double insulation) IP67 conforming to IEC 60529 (double insulation) IP69K conforming to DIN 40050 (double insulation)

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	58 g
Package 1 Height	3.6 cm
Package 1 width	7 cm
Package 1 Length	13.2 cm
Unit Type of Package 2	S01
Number of Units in Package 2	15
Package 2 Weight	1.072 kg
Package 2 Height	15 cm
Package 2 width	15 cm
Package 2 Length	40 cm

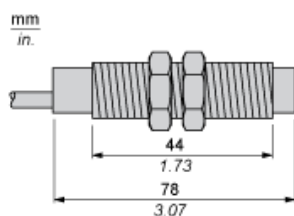
Offer Sustainability

Sustainable offer status	Green Premium product
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
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End of Life Information

Contractual warranty

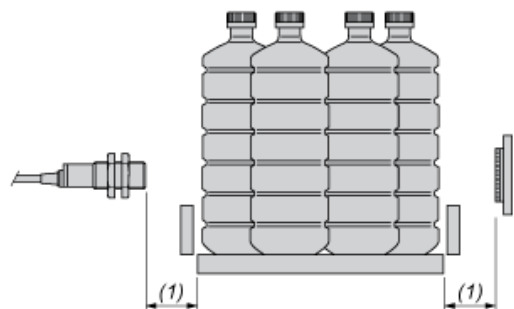
Warranty	18 months
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Dimensions



Setting-up

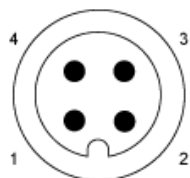
Recommended Distances and Application Restraints



(1) Blind zone : 0 m

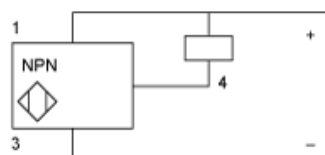
Wiring Schemes

M12 Connector



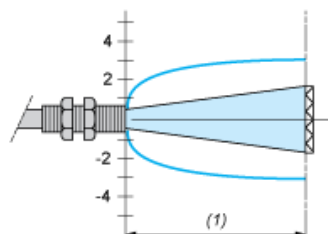
- 3 : (-)
- 1 : (+)
- 4 : OUT/Output
- 2 : Not connected

NPN



Detection Curves

Line of Sight Along Case Axis



$S_n \leq 1.4 \text{ m}$