

Main

Range of product	OsiSense XU
Series name	Application assembly
Electronic sensor type	Photo-electric sensor transmitter
Sensor name	XUA
Sensor design	Cylindrical M8
Detection system	Thru beam
Material	Metal
Line of sight type	Axial
Supply circuit type	DC
Wiring technique	3-wire
Electrical connection	Cable
Cable length	5 m
Emission	Infrared thru beam
[Sn] nominal sensing distance	2 m thru beam need a receiver

Complementary

Enclosure material	Nickel plated brass
Lens material	PMMA
Add on input	Test by emission breaking
Cable composition	3 x 0.14 mm ²
Wire insulation material	PvR
Cable outer diameter	3.5 mm
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Supply voltage limits	10...30 V DC
Current consumption	<= 15 mA
Maximum delay first up	20 ms
Setting-up	Without sensitivity adjustment
Diameter	8 mm
Length	48 mm



Environment

Product certifications	CULus CE
Ambient air temperature for operation	-25...55 °C
Ambient air temperature for storage	-30...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	IP67 conforming to IEC 60529 IP65 conforming to IEC 60529

Packing Units

Package 1 Weight	0.100 kg
Package 1 Height	0.650 dm
Package 1 width	0.430 dm
Package 1 Length	0.960 dm

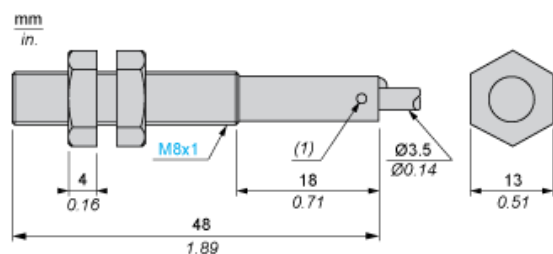
Offer Sustainability

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

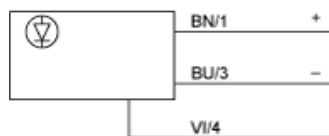


(1) LED, 4 viewing ports at 90°

Note Fixing nut tightening torque : <2N.m

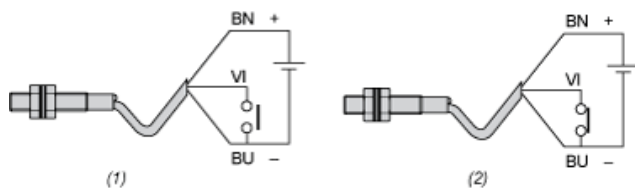
Wiring Schemes

Transmitter



BN : Brown
BU : Blue
VI : Violet

Beam Break Test

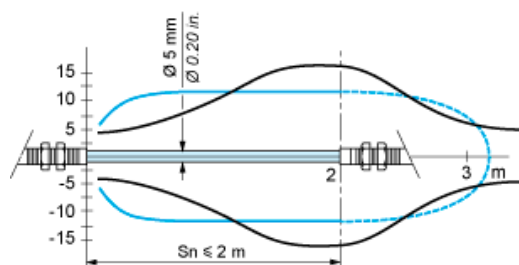


(1) Beam made LED on (steady light)

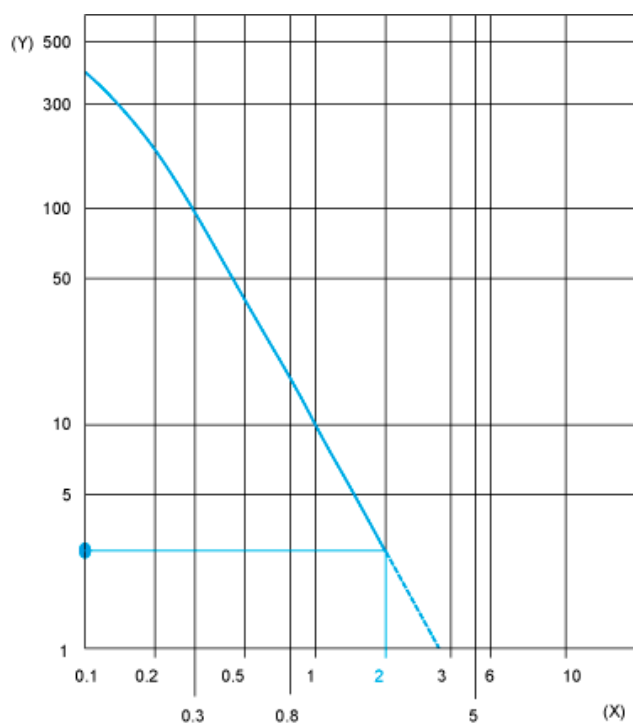
(2) Beam broken LED flashing

BN : Brown
BU : Blue
VI : Violet

Detection Curves



Excess Gain Curves (Ambient temperature: $\pm 25^\circ\text{C}$)



(Y) Gain
(X) Distance (m)