



## Main

Range of product	Telemecanique Photoelectric sensors 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	2 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 0.11 mm <sup>2</sup>
Wire insulation material	PvR
Cable outer diameter	2.95 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
Net weight	0.05 kg

## Environment

Product certifications	CE[RETURN]cULus
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

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.5 cm
Package 1 Width	6.7 cm
Package 1 Length	9.5 cm

Package 1 Weight	48.0 g
Unit Type of Package 2	S01
Number of Units in Package 2	24
Package 2 Height	15.0 cm
Package 2 Width	15.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	1.338 kg

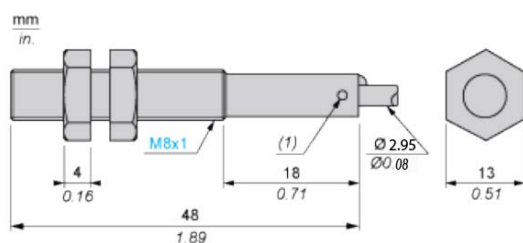
### Offer Sustainability

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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
For all Reach Rohs enquiries contact us at	<a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>

### Contractual warranty

Warranty	18 months
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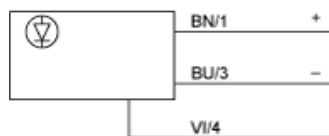
## Dimensions



(1) LED, 4 viewing ports at 90°  
Note Fixing nut tightening torque : <2N.m

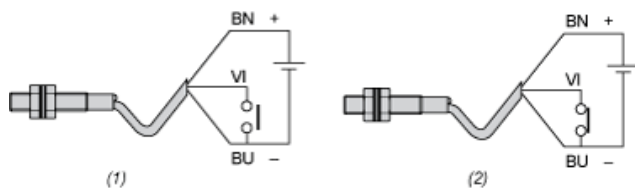
## Wiring Schemes

### Transmitter



BN : Brown  
BU : Blue  
VI : Violet

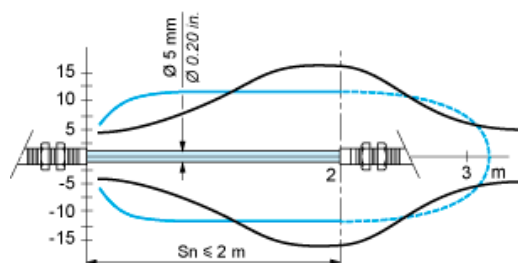
### Beam Break Test



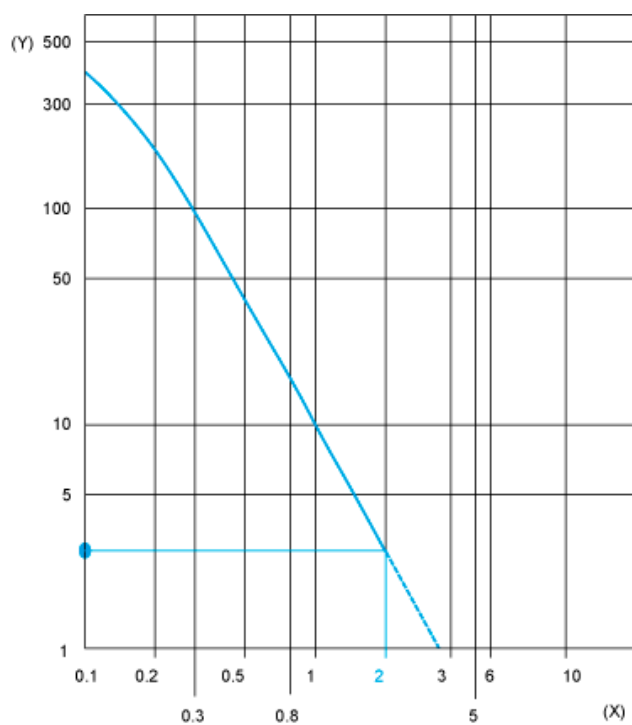
- (1) Beam made LED on (steady light)  
(2) Beam broken LED flashing

BN : Brown  
BU : Blue  
VI : Violet

## Detection Curves



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



(Y) Gain  
(X) Distance (m)