



Main

Range of Product	Telemecanique Photoelectric sensors XU
Series name	Application material handling
Electronic sensor type	Photo-electric sensor
Sensor name	XUB
Sensor design	Cylindrical M18
Detection system	Thru beam
Material	Plastic
Type of output signal	Discrete
Supply circuit type	DC
Wiring Technique	3-wire
Discrete output type	PNP
Discrete output function	1 NO or 1 NC programmable
Electrical connection	1 male connector M12
Emission	Red laser class 1 0.000026378 in (670 nm) IEC 825-1
[Sn] nominal sensing distance	328.08 ft (100 m)

Complementary

Enclosure Material	PBT
Lens material	PMMA
Blind zone	0.00 in (0 mm)
Output Type	Solid state
Status LED	Supply on and teaching 1 LED green) Stability 1 LED red) Output state and alignment aid 1 LED yellow)
[Us] rated supply voltage	12...24 V DC reverse polarity protection
Supply voltage limits	10...30 V DC
Switching capacity in mA	<= 100 mA overload and short-circuit protection)
Switching frequency	1500 Hz
Maximum voltage drop	<1.5 V closed state)
Current consumption	25 mA no-load
Maximum power consumption in W	1 W
Maximum delay first up	80 ms
Maximum delay response	0.4 ms
Maximum delay recovery	0.4 ms
Setting-up	With sensitivity adjustment
Net Weight	0.17 lb(US) (0.078 kg)
Kit composition	Transmitter + receiver XUBLAKCNM12T + XUBLAPCNM12R

## Environment

Product Certifications	CE CSA UL
Ambient Air Temperature for Operation	14...113 °F (-10...45 °C)
Ambient Air Temperature for Storage	-40...158 °F (-40...70 °C)
Vibration resistance	7 gn +/- 0.75 mm 10...55 Hz) IEC 60068-2-6
Shock resistance	30 gn 11 ms) IEC 60068-2-27
IP degree of protection	IP67 IEC 60529 double insulation)

## Ordering and shipping details

Category	22481-SENSORS, PHOTOELECTRIC
Discount Schedule	DS2
GTIN	3389119021005
Nbr. of units in pkg.	1
Package weight(Lbs)	2.22 oz (63.0 g)
Returnability	Yes
Country of origin	FR

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.34 in (3.4 cm)
Package 1 width	2.76 in (7 cm)
Package 1 Length	5.04 in (12.8 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	35
Package 2 Weight	5.53 lb(US) (2.509 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

## Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Diisobutyl 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>
REACH Regulation	 <a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	 Yes
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>
Circularity Profile	 <a href="#">End Of Life Information</a>

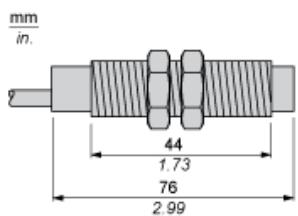
## Contractual warranty

Warranty	18 months
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Dimensions

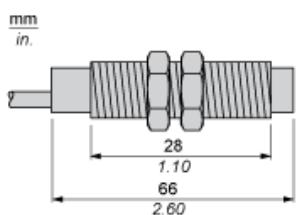
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Dimensions

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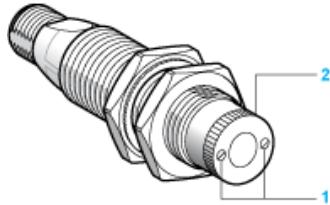


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## Mounting

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### Adjustment



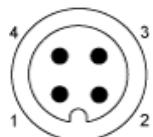
- (1) Adjust the focusing point of the laser beam by rotating the serrated sleeve
- (2) Located on the face of the sensor. Re-tighten fixing screws

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## Wiring Schemes

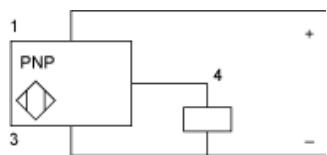
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### M12 Connector

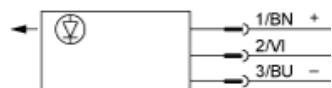


1 : (+)  
2 : Beam break input  
3 : (-)  
4 : OUT/Output

### PNP



### Transmitter



BN : Brown

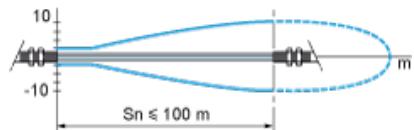
BU : Blue

Input Not connected: beam made, connected to (-): beam broken

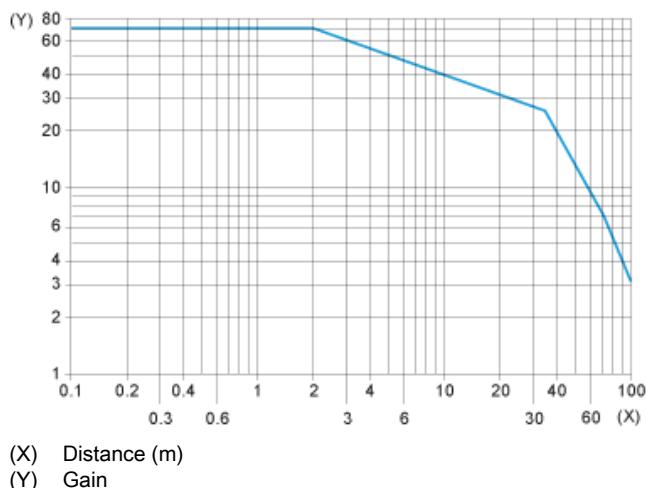
2/VI :

## Curves

### Detection Curve (Set to Infinity)

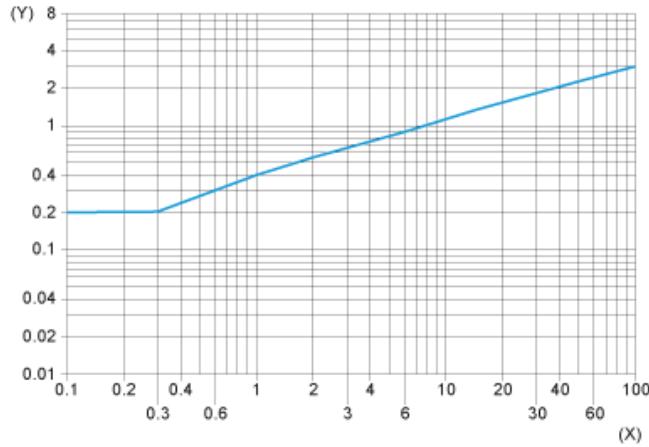


### Excess Gain Curve



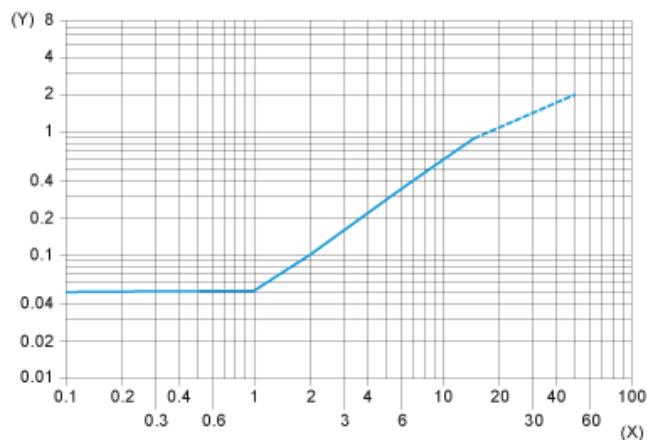
(X) Distance (m)  
(Y) Gain

### Standard Curve



(X) Distance focusing point (m)  
(Y) Minimum size of the object to be detected (mm)

## Detection Limit Curve



(X) Distance focusing point (m)

(Y) Minimum size of the object to be detected (mm)