

Photoelectric sensors XU, photo electric laser  
sensor, XUK, thru beam transmitter, Sn 30 m  
-10...30 VDC, M12



**Main**

Range of product	Telemecanique Photoelectric sensors XU
Series name	Application assembly Application material handling
Electronic sensor type	Photo-electric sensor
Sensor name	XUK
Sensor design	Compact 50 x 50
Detection system	Thru beam
Material	Plastic
Type of output signal	Discrete
Supply circuit type	DC
Wiring technique	4-wire
Electrical connection	1 male connector M12, 4 pins
Product specific application	-
Emission	Red laser thru beam class 1
[Sn] nominal sensing distance	25 m thru beam need receiver XUK2LAPSMM12R

**Complementary**

Enclosure material	ABS/PC
Lens material	PMMA
Maximum sensing distance	30 m thru beam
Add on output	Without
Add on input	Test
Status LED	1 LED (green) for supply
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Supply voltage limits	10...30 V DC
Maximum voltage drop	<2.4 V (closed state)
Current consumption	<= 30 mA no-load
Depth	50 mm
Height	50 mm
Width	23 mm
Net weight	0.035 kg

**Environment**

Product certifications	Ecolab[RETURN]CE[RETURN]cULus
Ambient air temperature for operation	-20...60 °C -20...50 °C, UL certified
Ambient air temperature for storage	-20...80 °C
Vibration resistance	7 gn, amplitude = +/- 1.5 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
Shock resistance	30 gn (duration = 11 ms) conforming to IEC 60947-5-2
IP degree of protection	IP67 conforming to IEC 60529 IP69K conforming to DIN 40050

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.0 cm
Package 1 Width	6.0 cm
Package 1 Length	9.0 cm
Package 1 Weight	49.0 g
Unit Type of Package 2	S01
Number of Units in Package 2	28
Package 2 Height	15.0 cm
Package 2 Width	15.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	1.597 kg

## Offer Sustainability

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

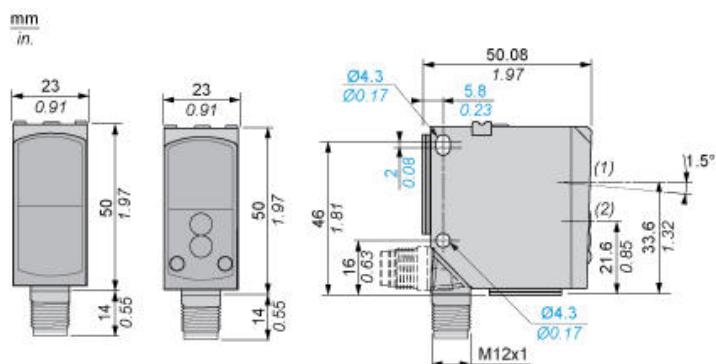
## Contractual warranty

Warranty	18 months
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Dimensions

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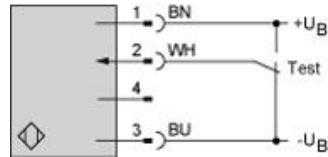
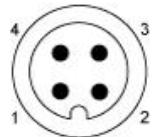


(1) Receiver optical axis  
(2) Transmitter optical axis

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Wiring Schemes Using M12 Connector

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1 : (+)  
2 : Test input (1)  
3 : (-)  
4 : Pin not connected

BN : Brown

WH : White

BU : Blue

+UB : External teach

-UB : Pushbutton locking

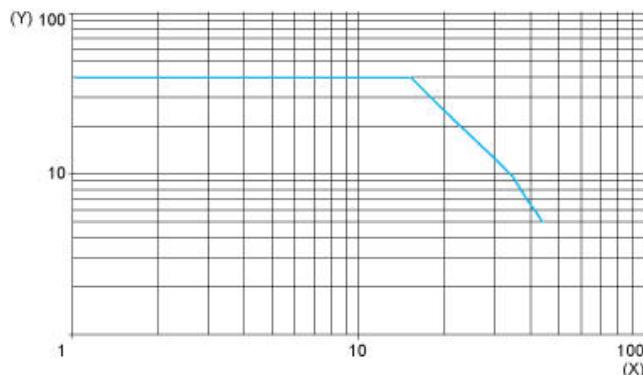
(1) Test input: +UB = test function (transmitter disconnected). -UB or not connected = normal operation

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## Curves

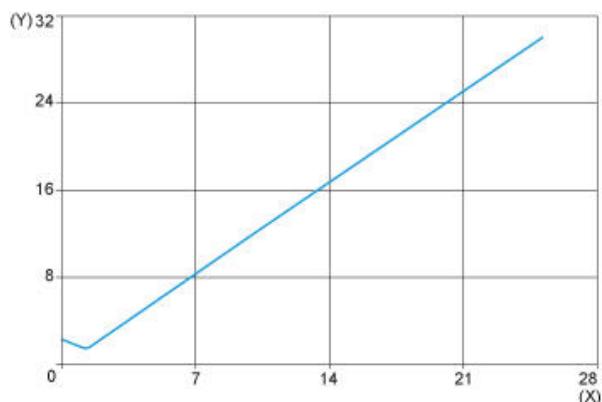
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### Excess Gain Curve



(X) Distance (m)  
(Y) Gain

### Size of Luminous Point



(X) Distance (m)  
(Y) Size (mm)