

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



Main

Range of product	Telemecanique Photoelectric sensors XU
Series name	Application material handling Application assembly
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
Discrete output type	PNP
Discrete output function	1 NO or 1 NC programmable
Electrical connection	1 male connector M12, 4 pins
Product specific application	-
Emission	Red thru beam
[Sn] nominal sensing distance	25 m thru beam need transmitter XUK2LAKSMM12T

Complementary

Enclosure material	ABS/PC
Lens material	PMMA
Maximum sensing distance	30 m thru beam
Output type	Solid state
Add on output	Without
Add on input	External teach
Status LED	1 LED (green) for supply on 1 LED (yellow) for output state 1 LED (red) for alignment assistance
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Supply voltage limits	10...30 V DC
Switching capacity in mA	<= 100 mA (overload and short-circuit protection)
Switching frequency	<= 500 Hz
Maximum voltage drop	<2.4 V (closed state)
Current consumption	<= 30 mA no-load
Maximum delay first up	300 ms
Maximum delay response	0.14 ms
Maximum delay recovery	0.14 ms
Setting-up	Using teach button or remote teaching
Depth	50 mm
Height	50 mm
Width	23 mm
Net weight	0.035 kg

Environment

Product certifications	Ecolab[RETURN]cULus[RETURN]CE
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	10.0 cm
Package 1 Weight	32.0 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	1.544 kg

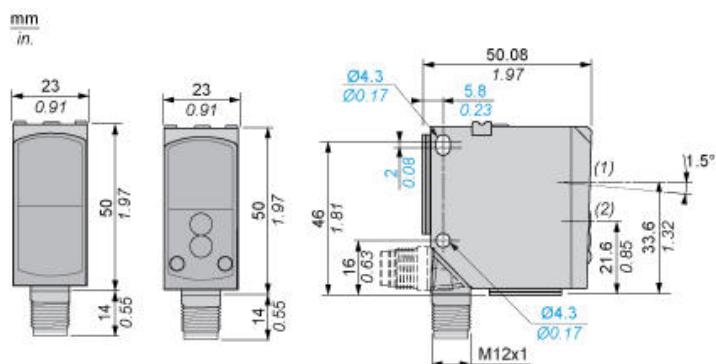
Offer Sustainability

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 www.P65Warnings.ca.gov
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

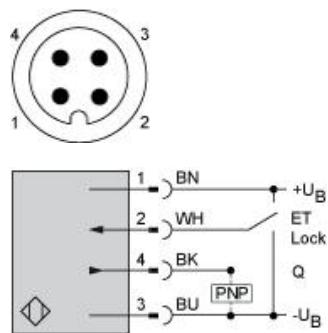
Warranty	18 months
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Dimensions



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

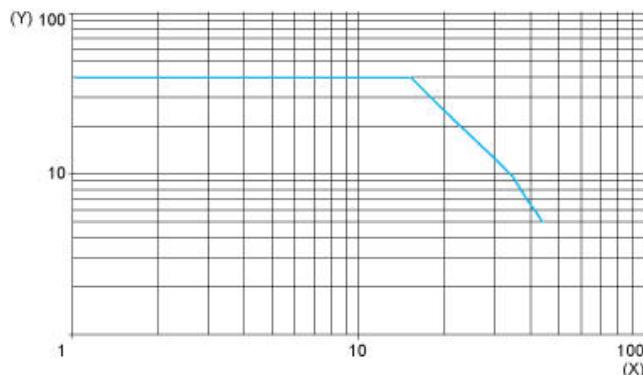
Wiring Schemes Using M12 Connector



1 : (+)
2 : ET/Lock (1)
3 : (-)
4 : Output
BN : Brown
WH : White
BU : Blue
BK : Black
+UB : External teach
-UB : Pushbutton locking
(1) ET/Lock. ET: External Teach, Lock: Pushbutton locking

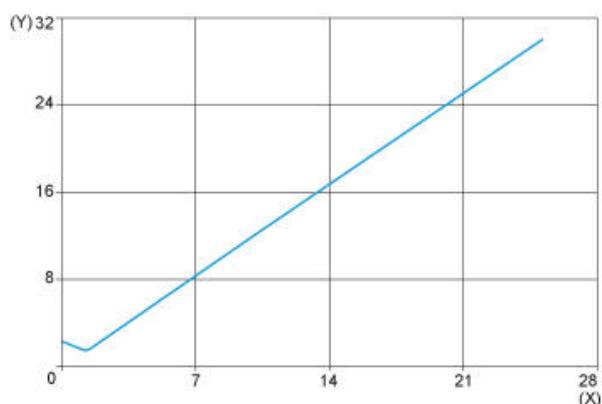
Curves

Excess Gain Curve



(X) Distance (m)
(Y) Gain

Size of Luminous Point



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