Product data sheet
Characteristics

XUK5LAPSMM12

Photoelectric sensors XU, photo electric laser sensor, XUK, diffuse energetic, Sn 1,2 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	Diffuse
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 laser diffuse class 1
[Sn] nominal sensing distance	1.2 m diffuse

Complementary

Enclosure material	ABS/PC
Lens material	PMMA
Maximum sensing distance	1.2 m diffuse
Output type	Solid state
Cable composition	3 x 0.34 mm²
Wire insulation material	PVC
Cable outer diameter	6 mm
Status LED	1 LED (yellow) for output state 1 LED (green/yellow) for supply on/output state
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Supply voltage limits	10…36 V DC
Switching capacity in mA	<= 100 mA (overload and short-circuit protection)
Switching frequency	<= 250 Hz
Maximum voltage drop	<1.5 V (closed state)
Current consumption	<= 30 mA no-load
Maximum delay first up	300 ms
Maximum delay response	0.8 ms
Maximum delay recovery	0.8 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]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 (f = 10…55 Hz) conforming to IEC 60068-2-6
Shock resistance	10 gn (duration = 11 ms) conforming to IEC 60068-2-27
IP degree of protection	IP67 conforming to IEC 60529 IP69K conforming to DIN 40050

Packing Units

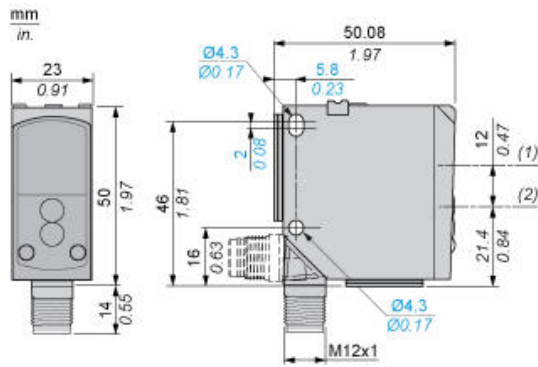|	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.1 cm
Package 1 Width	6.4 cm
Package 1 Length	9.4 cm
Package 1 Weight	48.0 g
Unit Type of Package 2	S01
Number of Units in Package 2	28
Package 2 Height	15.0 cm
Package 2 Width	15.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	1.572 kg

Offer Sustainability

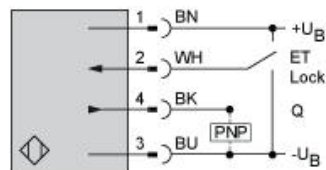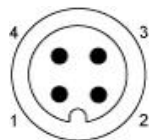|	
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

Warranty	18 months

Telemecanique
Sensors

Dimensions

(1)   Receiver optical axis
(2)   Transmitter optical axis
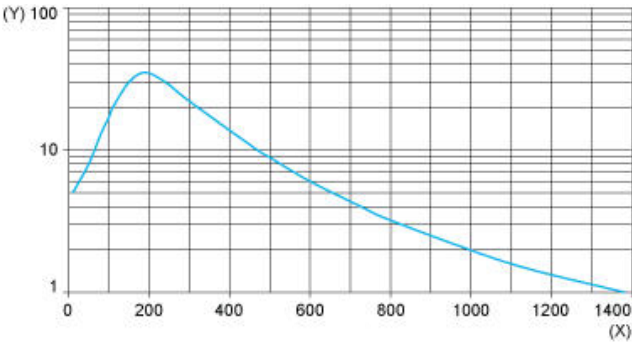
Wiring Schemes Using M12 Connector


```
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
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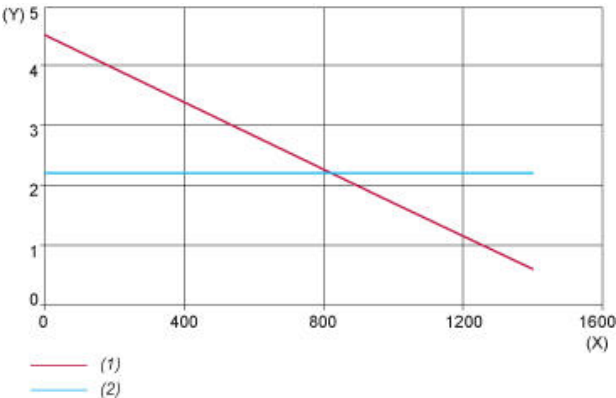
Telemecanique
Sensors

Product data sheet

Performance Curves

XUK5LAPSMM12

Curves

Excess Gain Curve

(X)   Distance (mm)
(Y)   Gain

Size of Luminous Point

(X)   Distance (mm)
(Y)   Size (mm)
(1)   Vertical (Y)
(2)   Horizontal (X)