

# XUK9LAPSM12

Photoelectric sensors XU, photo electric laser sensor, XUK, polarised reflex, Sn 14 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	Polarised reflex
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 polarised reflex class 1
[Sn] nominal sensing distance	39.37 ft (12 m) polarised reflex need reflector XUZC50HP

## Complementary

Enclosure Material	ABS/PC
Lens material	PMMA
Maximum sensing distance	45.93 ft (14 m) polarised reflex need reflector XUZC50HP
Output Type	Solid state
Status LED	1 LED yellow/output state 1 LED green/yellow/supply on/output state
[Us] rated supply voltage	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	<= 2000 Hz
Maximum voltage drop	<2 V
Current consumption	<= 60 mA no-load
Maximum delay first up	300 ms
Maximum delay response	2 ms
Maximum delay recovery	2 ms
Setting-up	Using teach button or remote teaching
Depth	1.97 in (50 mm)
Height	1.97 in (50 mm)
Width	0.91 in (23 mm)
Product Weight	0.08 lb(US) (0.035 kg)

## Environment

Product Certifications	Ecolab CE cULus
Ambient air temperature for operation	-4...140 °F (-20...60 °C) -4...122 °F (-20...50 °C)
Ambient Air Temperature for Storage	-4...176 °F (-20...80 °C)
Vibration resistance	7 gn +/- 1.5 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 IP69K DIN 40050




## Ordering and shipping details

Category	22481-SENSORS, PHOTOELECTRIC
Discount Schedule	DS2
GTIN	3389119077569
Returnability	No
Country of origin	DE

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.10 in (2.8 cm)
Package 1 Width	3.54 in (9.0 cm)
Package 1 Length	2.36 in (6.0 cm)
Package 1 Weight	1.69 oz (48.0 g)
Unit Type of Package 2	S01
Number of Units in Package 2	28
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	5.91 in (15.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	3.81 lb(US) (1.729 kg)

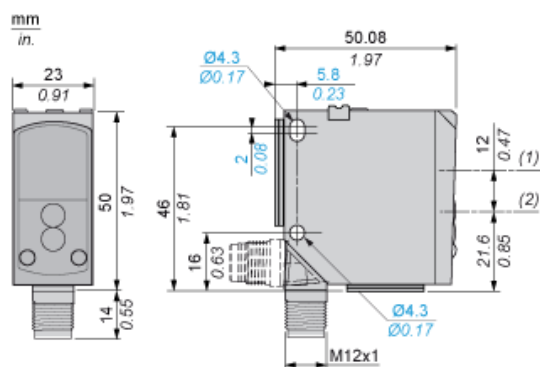
## Offer Sustainability

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>
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	 <a href="#">Yes</a>

## Contractual warranty

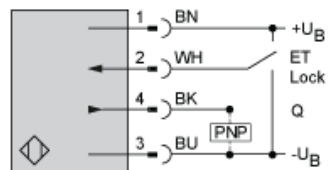
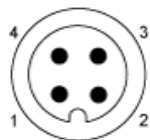
Warranty	18 months
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## Dimensions



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

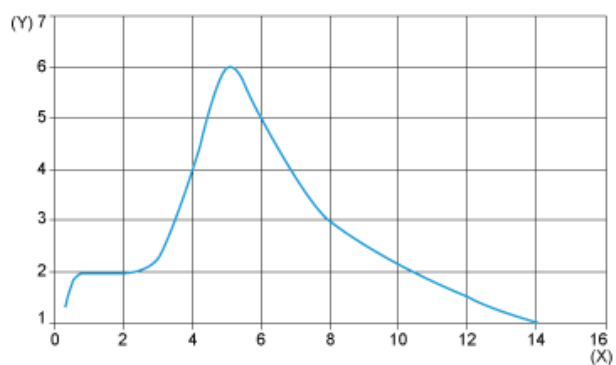
## Wiring Schemes Using M12 Connector



- 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

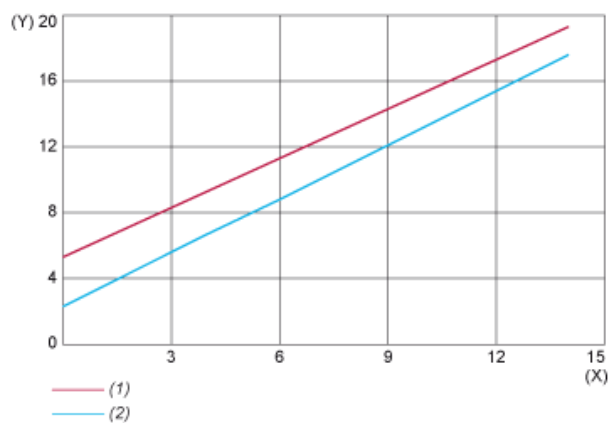
### Excess Gain Curve



(X) Distance (m)

(Y) Gain

### Size of Luminous Point



(X) Distance (m)

(Y) Size (mm)

(1) Vertical (Y)

(2) Horizontal (X)