

XUK8LAPPNM12

Photoelectric sensors XU, photo electric laser sensor, XUK, background suppression, Sn 0,8 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	Diffuse with background suppression
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 with background suppression class 1
[Sn] nominal sensing distance	2.62 ft (0.8 m) diffuse with background suppression

Complementary

Enclosure Material	ABS/PC
Lens material	PMMA
Maximum sensing distance	2.62 ft (0.8 m) diffuse with background suppression
Output Type	Solid state
Add on input	External teach
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	<= 250 Hz
Maximum voltage drop	<2 V
Current consumption	<= 30 mA no-load
Maximum delay first up	300 ms
Maximum delay response	0.5 ms
Maximum delay recovery	0.5 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)
Net Weight	0.08 lb(US) (0.035 kg)

The information provided in this documentation contains general descriptions and/or technical characteristics of the products of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Environment

Product Certifications	CULus Ecolab CE
Ambient air temperature for operation	-4...122 °F (-20...50 °C), UL -4...140 °F (-20...60 °C) discrete output
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	3389119077583
Nbr. of units in pkg.	1
Package weight(Lbs)	1.83 oz (52.0 g)
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.10 in (2.8 cm)
Package 1 width	3.54 in (9 cm)
Package 1 Length	2.36 in (6 cm)
Unit Type of Package 2	S01
Number of Units in Package 2	28
Package 2 Weight	3.77 lb(US) (1.708 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	5.91 in (15 cm)
Package 2 Length	15.75 in (40 cm)

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
REACH Regulation	 REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	 Yes

Contractual warranty

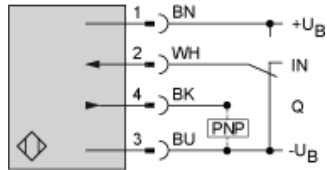
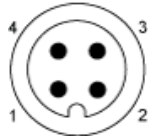
Warranty	18 months
----------	-----------

The technical drawing shows two views of the sensor head:

- Front View (Left):** Shows a rectangular head with a width of 23 mm (0.91 in.) and a height of 50 mm (1.97 in.). The mounting bracket at the bottom has a height of 14 mm (0.55 in.).
- Side View (Right):** Shows the profile of the head with a total length of 50.08 mm (1.97 in.). Key features include:
 - A top flange with a thickness of 5.8 mm (0.23 in.) and a central hole of diameter Ø4.3 mm (Ø0.17 in.).
 - A distance of 2 mm (0.08 in.) between the top flange and the main body.
 - A main body height of 46 mm (1.81 in.) from the base of the mounting bracket.
 - An internal feature with a depth of 16 mm (0.63 in.) and a width of 18 mm (0.71 in.), labeled (1).
 - A lower section with a height of 15.6 mm (0.61 in.), labeled (2).
 - A threaded mounting point at the bottom with a thread size of M12x1.

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

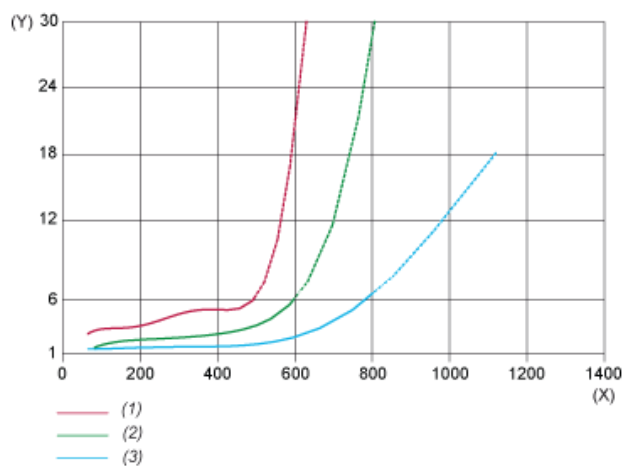
Wiring Schemes Using M12 Connector



- 1 : (+)
2 : +UB = NC, -UB = NO, not connected = NO
3 : (-)
4 : Output
BN : Brown
WH : White
BU : Blue
BK : Black
+UB : External teach
-UB : Pushbutton locking

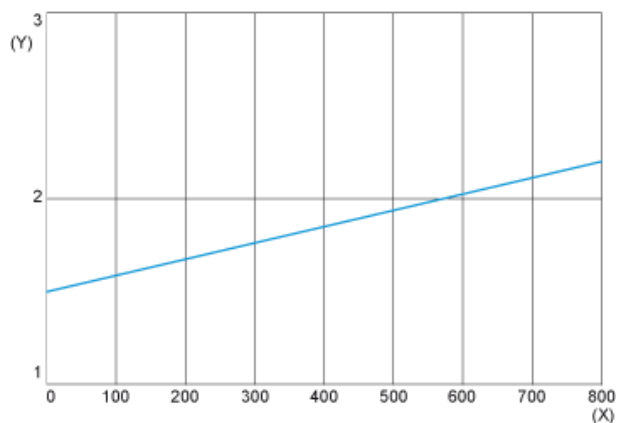
Curves

Scanning Properties



- (X) Detection distance (mm)
 (Y) Distance (%)
 (1) Black/white 6%/90%
 (2) Grey/white 18%/90%
 (3) White/white 90%/90%

Size of Luminous Point



- (X) Distance (mm)
 (Y) Size (mm)