

Photoelectric sensors XU, photo electric laser sensor, XUK, background suppression, Sn 0,8 m -10...30 VDC M12

XUK8LAPPNM12

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	0.8 m diffuse with background suppression

Complementary

Enclosure material	ABS/PC
Lens material	PMMA
Maximum sensing distance	0.8 m diffuse with background suppression
Output type	Solid state
Add on input	External teach
Status LED	1 LED (yellow) for output state 1 LED (green/yellow) for supply on/output state
[Us] rated supply voltage	24 V DC with reverse polarity protection
Supply voltage limits	1030 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	50 mm
Height	50 mm
Width	23 mm
Product weight	0.035 kg
Environment	
Product certifications	cULus Ecolab CE
Ambient air temperature for operation	-2050 °C, UL certified -2060 °C discrete output

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Ambient air temperature for operation	-2050 °C, UL certified -2060 °C discrete output
Ambient air temperature for storage	-2080 °C
Vibration resistance	7 gn, amplitude = +/- 1.5 mm (f = 1055 Hz) conforming to IEC 60068-2-6
Shock resistance	30 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	2.8 cm
Package 1 Width	9.0 cm
Package 1 Length	6.0 cm
Package 1 Weight	52.0 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	1.708 kg

Offer Sustainability

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
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

Contractual warranty

Warranty

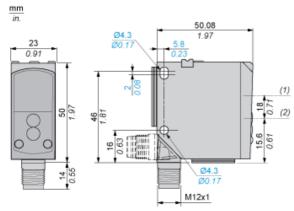
18 months

Product data sheet

XUK8LAPPNM12

Dimensions Drawings

Dimensions



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

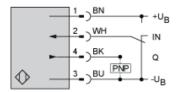
Product data sheet

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Connections and Schema

Wiring Schemes Using M12 Connector





1: 2: 3:

(+) +UB = NC, -UB = NO, not connected = NO

(-) Output 4: BN: WH: BU: BK: +UB: Brown White Blue Black

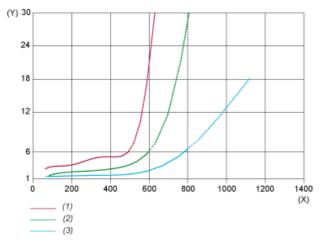
External teach
Pushbutton locking

Life Is On Schneider

Performance Curves

Curves

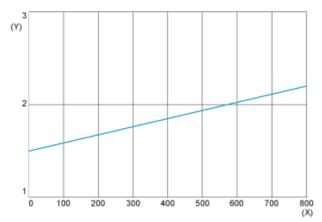
Scanning Properties



- Detection distance (mm)

- Distance (%)
 Black/white 6%/90%
 Grey/white 18%/90%
 White/white 90%/90%

Size of Luminous Point



- Distance (mm)
- Size (mm)

Recommended replacement(s)