

Product data sheet

Specifications



Photoelectric sensors XU, XUK, diffuse, Sn 1 m, 12...24 VDC, M12

XUK5ANANM12

Main

Range Of Product	Telemecanique Photoelectric sensors XU
Series Name	General purpose single mode
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	3-wire
Discrete Output Type	NPN
Discrete Output Function	1 NO
Electrical Connection	1 male connector M12, 4 pins
Product Specific Application	-
Emission	Infrared diffuse
[Sn] Nominal Sensing Distance	1 m diffuse

Complementary

Enclosure Material	PBT
Lens Material	PMMA
Maximum Sensing Distance	1.5 m diffuse
Output Type	Solid state
Wire Insulation Material	PVC
Status Led	1 LED (yellow) for output state
[Us] Rated Supply Voltage	12...24 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	<= 35 mA no-load
Maximum Delay First Up	15 ms
Maximum Delay Response	2 ms

Disclaimer: 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

Maximum Delay Recovery	2 ms
Setting-Up	Without sensitivity adjustment
Depth	50 mm
Height	50 mm
Width	18 mm
Net Weight	0.19 kg

Environment

Product Certifications	CSA CE UL
Ambient Air Temperature For Operation	-25...55 °C
Ambient Air Temperature For Storage	-40...70 °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 60068-2-27
Ip Degree Of Protection	IP65 double insulation conforming to IEC 60529

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	4.2 cm
Package 1 Width	9.7 cm
Package 1 Length	6.7 cm
Package 1 Weight	60.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	44
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	3.14 kg

Contractual warranty

Warranty	18 months
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Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



RoHS/REACH

Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information [Yes](#)

Certifications & Standards

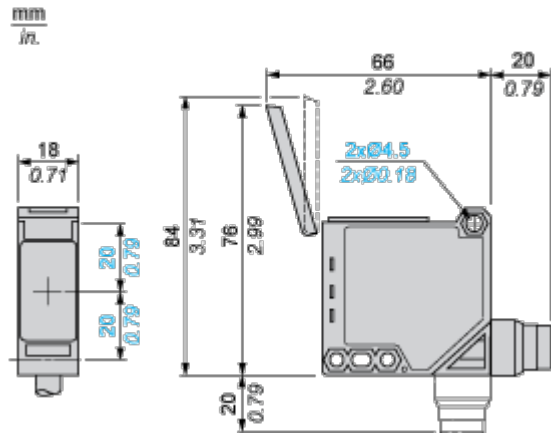
Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Pro-active compliance (Product out of EU RoHS legal scope)

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 Diisodecyl 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

Dimensions Drawings

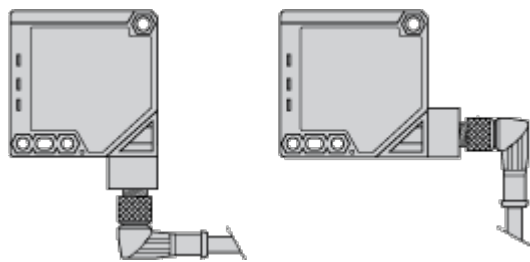
Dimensions



Mounting and Clearance

Mounting and Clearance

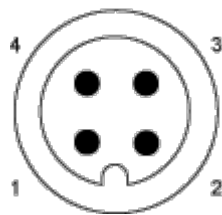
Possible Orientation of Elbowed Connector



Connections and Schema

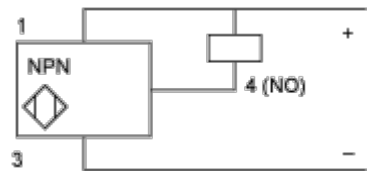
Wiring Schemes

M12 Connector



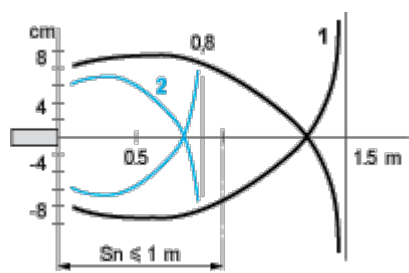
- 1 : (+)
- 3 : (-)
- 4 : OUT/Output

NPN Outputs



Performance Curves

Detection Curves



- 1 : White 90%
- 2 : Grey 18%

Object 10 x 10 cm