

Product data sheet

Specifications



Photoelectric sensors XU, XUK, emitter, 12...24 VDC, M12

XUK0AKSAM12T

Main

Range Of Product	Telemecanique Photoelectric sensors XU
Series Name	General purpose multimode
Electronic Sensor Type	Photo-electric sensor transmitter
Sensor Name	XUK
Sensor Design	Compact 50 x 50
Detection System	Thru beam
Material	Plastic
Supply Circuit Type	DC
Wiring Technique	3-wire
Electrical Connection	1 male connector M12, 4 pins
Product Specific Application	-
Emission	Infrared thru beam
[Sn] Nominal Sensing Distance	30 m thru beam need a receiver

Complementary

Enclosure Material	PBT
Lens Material	PMMA
Maximum Sensing Distance	35 m thru beam
Add On Input	Test by emission breaking
Status Led	1 LED (green) for supply on
[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	20 mA no-load
Maximum Delay First Up	300 ms
Maximum Delay Response	2 ms
Maximum Delay Recovery	2 ms
Setting-Up	Without sensitivity adjustment
Depth	50 mm

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

Height	50 mm
Width	18 mm
Net Weight	0.09 kg

Environment

Product Certifications	CSA UL CE
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	9.6 cm
Package 1 Length	6.7 cm
Package 1 Weight	70.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	44
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	3.77 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	704
Package 3 Height	75 cm
Package 3 Width	40 cm
Package 3 Length	80 cm
Package 3 Weight	74.28 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

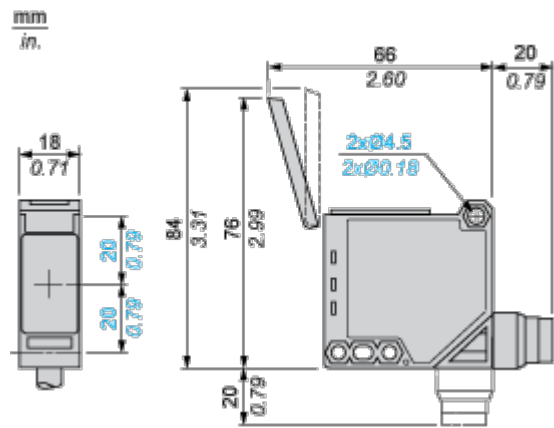
Reach Regulation [REACH Declaration](#)

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

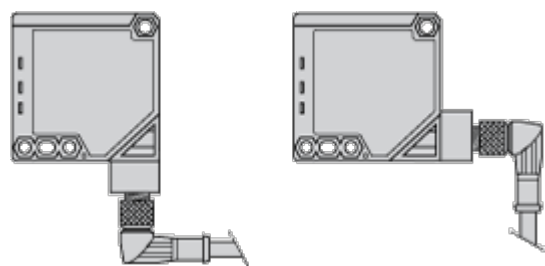
Dimensions



Mounting and Clearance

Mounting and Clearance

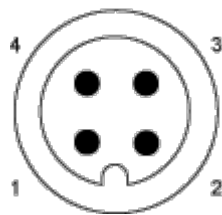
Possible Orientation of Elbowed Connector



Connections and Schema

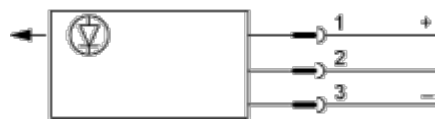
Wiring Schemes

M12 Connector



- 1 : (+)
 - 2 : Alarm or beam break input (1)
 - 3 : (-)
 - 4 : OUT/Output
- (1) Beam break input on thru-beam transmitter only

Thru-beam Transmitter DC



- Input 2:
- not connected: beam made
 - connected to -: beam broken

Performance Curves

Detection Curves

With Thru-beam Accessory (Thru-beam)

