Product datasheet

Specifications



photo-electric sensor - XUK - emitter - 12..24VDC - M12

XUK2AKSNM12T

Main

Range of product	Telemecanique Photoelectric sensors XU
Series name	General purpose single mode
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	45 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	<= 35 mA no-load
Maximum delay first up	15 ms
Maximum delay response	2 ms
Maximum delay recovery	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

Setting-up	Without sensitivity adjustment
Depth	50 mm
Height	50 mm
Width	18 mm
Net weight	0.07 kg

Environment

Product certifications	UL CSA 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 Weight	58.0 g
Package 1 Height	4.1 cm
Package 1 width	9.5 cm
Package 1 Length	6.5 cm
Unit Type of Package 2	S02
Number of Units in Package 2	44
Package 2 Weight	3.069 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

Offer Sustainability

Sustainable offer status	Green Premium product
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
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

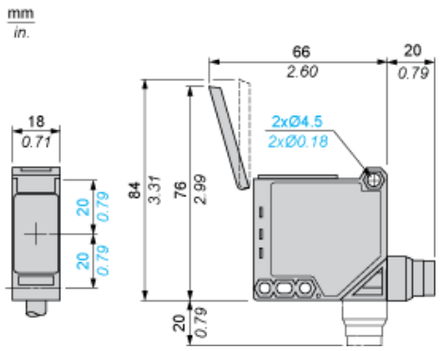
Contractual warranty

Warranty	18 months

Product datasheet XUK2AKSNM12T

Dimensions Drawings

Dimensions

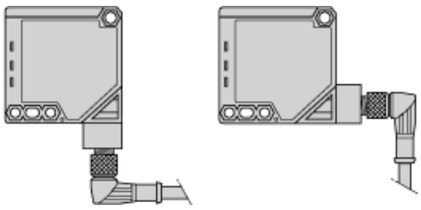


Product datasheet XUK2AKSNM12T

Mounting and Clearance

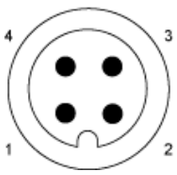
Mounting and Clearance

Possible Orientation of Elbowed Connector



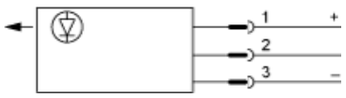
Wiring Schemes

M12 Connector



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

Transmitter



Input 2:

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

Product datasheet XUK2AKSNM12T

Performance Curves

Detection Curves

