

Product data sheet

Specifications



Photoelectric sensors XU, photo electric laser sensor, XUK, 10...30 VDC, M12

XUK8APSM102M12

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 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
Emission	Red diffuse with background suppression
[Sn] nominal sensing distance	3.94 ft (1.2 m) diffuse with background suppression

Complementary

Enclosure material	ABS/PC
Lens material	PMMA
Maximum sensing distance	3.94 ft (1.2 m) diffuse with background suppression
Output type	Solid state
Add on output	Without
Cable composition	5 x 0.34 mm ²
Wire insulation material	PVC
Cable outer diameter	0.24 in (6 mm)
Status LED	1 LED yellow)output state 1 LED green/yellow)supply on/output state
[Us] rated supply voltage	12...24 V DC 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	<2.4 V closed state)
Current consumption	<= 30 mA no-load
Maximum delay first up	300 ms
Maximum delay response	0.8 ms
Maximum delay recovery	0.8 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)

Environment

Product certifications	cULus CE Ecolab
Ambient air temperature for operation	-4...140 °F (-20...60 °C) -4...122 °F (-20...50 °C), UL
Ambient air temperature for storage	-4...176 °F (-20...80 °C)
Vibration resistance	7 gn 10...55 Hz) IEC 60068-2-6
Shock resistance	10 gn 11 ms) IEC 60068-2-27
IP degree of protection	IP67 IEC 60529 IP69K DIN 40050

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.28 in (5.8 cm)
Package 1 Width	7.09 in (18.0 cm)
Package 1 Length	5.83 in (14.8 cm)
Package 1 Weight	4.09 oz (116.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	4
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	29.03 oz (823.0 g)

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

Recommended replacement(s)