Product data sheet Characteristics

XUK0ARCTL10

Photoelectric sensors XU, XUK, multi, Sn 0...30 m, 24...240VAC/DC, cable 10 m





Main	
Range of Product	Telemecanique Photoelectric sensors XU
Series name	General purpose multimode
Electronic sensor type	Photo-electric sensor
Sensor name	XUK
Sensor design	Compact 50 x 50
Detection system	Multimode
Material	Plastic
Type of output signal	Discrete
Supply circuit type	AC/DC
Wiring Technique	5-wire
Discrete output function	1 NO or 1 NC programmable
Electrical connection	Cable
Cable length	32.81 ft (10 m)
Product Specific Application	-
Emission	Infrared diffuse Infrared diffuse with background suppression Infrared thru beam Red polarised reflex
[Sn] nominal sensing distance	 13.12 Ft (4 m) polarised reflex need reflector XUZC50 98.43 Ft (30 m) thru beam need a transmitter XUK0ARCTL10T 0.92 Ft (0.28 m) diffuse with background suppression 2.62 ft (0.8 m) diffuse

Complementary

Enclosure Material	PBT
Lens material	РММА
Maximum sensing distance	114.83 Ft (35 m) thru beam 0.92 Ft (0.28 m) diffuse with background suppression 3.94 Ft (1.2 m) diffuse 18.70 ft (5.7 m) polarised reflex
Output Type	Relay
Add on output	Without, <= 50 mA overload and short-circuit protection
Wire insulation material	PvR
Status LED	1 LED green)supply 1 LED red)instability 1 LED yellow)output state
[Us] rated supply voltage	24240 V AC 24240 V DC
Supply voltage limits	20264 V AC 20264 V DC
Switching capacity in mA	3 A cos φ = 1 for 0.5 million cycles at 1 operating cycle per second at 250 V)
Switching frequency	<= 20 Hz
Maximum voltage drop	<1.5 V closed state)
Maximum power consumption in W	3 W AC/DC
Time delay range	010 s monostable, on-delay or off-delay (programmable)
Maximum delay first up	300 ms
Maximum delay response	25 ms



Maximum delay recovery	25 ms	
Setting-up	Self-teaching	
Electrical durability	500000 cycles 1 60 cyc/mn 250 V	
Depth	1.97 in (50 mm)	
Height	1.97 in (50 mm)	
Width	0.71 in (18 mm)	

Environment

Product Certifications	CE CSA UL	
Ambient Air Temperature for Operation	-13131 °F (-2555 °C)	
Ambient Air Temperature for Storage	-40158 °F (-4070 °C)	
Vibration resistance	7 gn +/- 1.5 mm 1055 Hz) IEC 60068-2-6	
Shock resistance	30 gn 11 ms) IEC 60068-2-27	
IP degree of protection	IP65 double insulation IEC 60529	

Ordering and shipping details

22481-SENSORS, PHOTOELECTRIC
DS2
3389110378726
1
19.40 oz (550.0 g)
No
ID

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	2.36 in (6 cm)
Package 1 width	5.12 in (13 cm)
Package 1 Length	5.31 in (13.5 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	12
Package 2 Weight	15.60 lb(US) (7.074 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

Offer Sustainability

Sustainable offer status	Green Premium product
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
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	₽ Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information

Contractual warranty

18 months

Product data sheet Dimensions Drawings

XUK0ARCTL10

Dimensions



XUK0ARCTL10

Wiring Schemes

Relay Output



BU : Blue BK : Black (NO)

GY : Grey (Relay common) WH : White (NC)

Product data sheet **Performance Curves**

XUK0ARCTL10

Detection Curves



Without Accessory (Diffuse)



2: Grey 18% Object 10 x 10 cm

Without Accessory (Diffuse with background suppression)



Object 10 x 10 cm

With reflector (Polarised reflex)



With reflector XUZC50

Variation of Usable Sensing Distance Su (Without accessory, with adjustable background suppression) Teach Mode at Minimum



- (1) Black 6%
 (2) Grey 18%
 (3) White 90%
 (4) Sensing range
 (5) Non sensing zone (matt surfaces)