XUK0ARCTL10

photo-electric sensor - XUK - multi - Sn 0..30m - 24..240VAC/DC - cable 10m





Main

Range of product	OsiSense 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	10 m
Product specific application	-
Emission	Infrared diffuse Infrared diffuse with background suppression Infrared thru beam Red polarised reflex
[Sn] nominal sensing distance	4 M polarised reflex need reflector XUZC50 30 M thru beam need a transmitter XUK0ARCTL10T 0.28 M diffuse with background suppression 0.8 m diffuse

Complementary

Enclosure material	PBT
Lens material	PMMA
Maximum sensing distance	35 M thru beam 0.28 M diffuse with background suppression 1.2 M diffuse 5.7 m polarised reflex
Output type	Relay
Add on output	Without, <= 50 mA with overload and short-circuit protection
Wire insulation material	PvR
Status LED	1 LED (green) for supply 1 LED (red) for instability 1 LED (yellow) for 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) delay
Maximum delay first up	300 ms
Maximum delay response	25 ms
Maximum delay recovery	25 ms
Setting-up	Self-teaching

Electrical durability	500000 cycles, cos f = 1, operating rate <60 cyc/mn at 250 V
Depth	50 mm
Height	50 mm
Width	18 mm
Environment	
Product certifications	CE CSA UL
Ambient air temperature for operation	-2555 °C
Ambient air temperature for storage	-4070 °C
Vibration resistance	7 gn, amplitude = +/- 1.5 mm (f = 1055 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 Package 1 Weight	0.550 kg
	-
Package 1 Height	0.600 dm
Package 1 width	1.300 dm
-	
Package 1 Length	1.350 dm
Package 1 Length	
-	
Package 1 Length Offer Sustainability	1.350 dm
Package 1 Length Offer Sustainability Sustainable offer status	1.350 dm Green Premium product
Package 1 Length Offer Sustainability Sustainable offer status REACh Regulation	1.350 dm Green Premium product ☐REACh Declaration Pro-active compliance (Product out of EU RoHS legal scope) ☐EU RoHS
Package 1 Length Offer Sustainability Sustainable offer status REACh Regulation EU RoHS Directive	1.350 dm Green Premium product REACh Declaration Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Package 1 Length Offer Sustainability Sustainable offer status REACh Regulation EU RoHS Directive Mercury free	1.350 dm Green Premium product ☑REACh Declaration Pro-active compliance (Product out of EU RoHS legal scope) ☑EU RoHS Declaration Yes

18 months

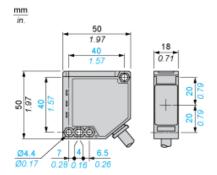
Contractual warranty

Warranty

Product data sheet Dimensions Drawings

XUK0ARCTL10

Dimensions

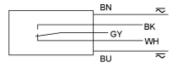


Product data sheet Connections and Schema

XUK0ARCTL10

Wiring Schemes

Relay Output



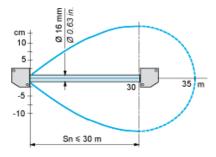
BN: Brown BU: Blue BK: Black (NO)

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

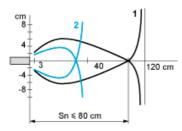
XUK0ARCTL10

Detection Curves

With Thru-beam Accessory (Thru-beam)



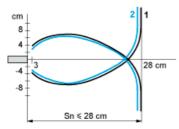
Without Accessory (Diffuse)



1: White 90% 2: Grey 18%

Object 10 x 10 cm

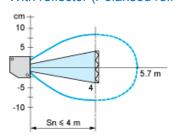
Without Accessory (Diffuse with background suppression)



1: White 90% 2: Grey 18%

Object 10 x 10 cm

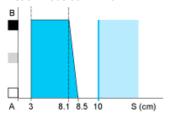
With reflector (Polarised reflex)



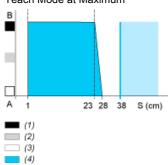
With reflector XUZC50

Variation of Usable Sensing Distance Su (Without accessory, with adjustable background suppression)

Teach Mode at Minimum



Teach Mode at Maximum



A-B : Object reflection coefficient

(5)

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