XUK0ARCTL5

photo-electric sensor - XUK - multi - Sn 0..30m - 24..240VAC/DC - cable 5m





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	5 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 XUK0ARCTL5T 0.28 M diffuse with background suppression 0.8 m diffuse

Complementary

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
Net weight	0.175 kg
Environment	
Product certifications	CE UL CSA
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	0.308 kg
	0.308 kg 0.400 dm
Package 1 Weight	
Package 1 Weight Package 1 Height	0.400 dm
Package 1 Weight Package 1 Height Package 1 width	0.400 dm 1.300 dm
Package 1 Weight Package 1 Height Package 1 width Package 1 Length	0.400 dm 1.300 dm
Package 1 Weight Package 1 Height Package 1 width Package 1 Length Offer Sustainability	0.400 dm 1.300 dm 1.300 dm
Package 1 Weight Package 1 Height Package 1 width Package 1 Length Offer Sustainability Sustainable offer status	0.400 dm 1.300 dm 1.300 dm Green Premium product ☐REACh Declaration
Package 1 Weight Package 1 Height Package 1 width Package 1 Length Offer Sustainability Sustainable offer status REACh Regulation	0.400 dm 1.300 dm 1.300 dm 1.300 dm Green Premium product REACh Declaration Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS
Package 1 Weight Package 1 Height Package 1 width Package 1 Length Offer Sustainability Sustainable offer status REACh Regulation EU RoHS Directive	0.400 dm 1.300 dm 1.300 dm Green Premium product REACh Declaration Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration

Contractual warranty

Circularity Profile

Contractical warranty	
Warranty	18 months

End of Life Information

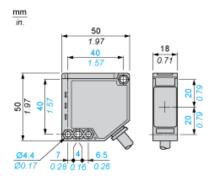
Product Environmental Profile



Product data sheet Dimensions Drawings

XUK0ARCTL5

Dimensions

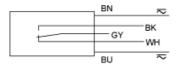


Product data sheet Connections and Schema

XUK0ARCTL5

Wiring Schemes

Relay Output

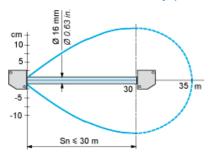


BN: Brown BU: Blue BK: Black (NO) GY: Grey (Relay common) WH: White (NC)

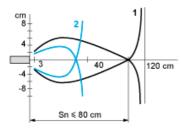
XUK0ARCTL5

Detection Curves

With Thru-beam Accessory (Thru-beam)



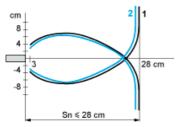
Without Accessory (Diffuse)



1: White 90% 2: Grey 18%

Object 10 x 10 cm

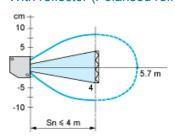
Without Accessory (Diffuse with background suppression)



1: White 90% 2: Grey 18%

Object 10 x 10 cm

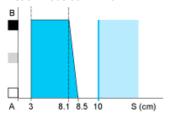
With reflector (Polarised reflex)



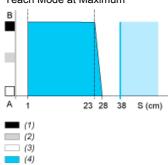
With reflector XUZC50

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)