Product data sheet Characteristics

XUK0ARCTL5

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



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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	0.28 m diffuse with background suppression 0.8 m diffuse 4 m polarised reflex need reflector XUZC50 30 m thru beam need a transmitter XUK0ARCTL5T	

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	
Voltage drop	<= 1.5 V (closed state)	
Power consumption in W	3 W AC/DC	
Time delay range	010 s monostable, on-delay or off-delay (programmable) delay	
Delay first up	< 300 ms	
Delay response	< 25 ms	
Delay recovery	< 25 ms	
Setting-up	Self-teaching	
Electrical durability	500000 cycles, cos f = 1, 60 cyc/mn at 250 V	
Depth	50 mm	
Height	50 mm	
Width	18 mm	
Product weight	0.175 kg	
Environment		
Product certifications	CE CSA UL	
Ambient air temperature for operation	-2555 °C	
Ambient air temperature for storage	-4070 °C	

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Vibration resistance

Shock resistance

IP degree of protection

RoHS (date code: YYWW)	Compliant - since 0903 - Schneider Electric declaration of conformity	
	Schneider Electric declaration of conformity	
Product environmental profile	Available	
	Product Environmental Profile	
Product end of life instructions	Available	
	End of Life Information	

30 gn (duration = 11 ms) conforming to IEC 60068-2-27

IP65 double insulation conforming to IEC 60529

7 gn, amplitude = +/- 1.5 mm (f = 10...55 Hz) conforming to IEC 60068-2-6

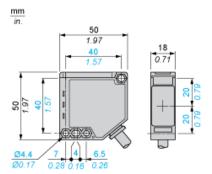
Contractual warranty

Warranty period	18 months

Product data sheet Dimensions Drawings

XUK0ARCTL5

Dimensions

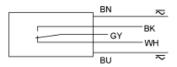


Product data sheet Connections and Schema

XUK0ARCTL5

Wiring Schemes

Relay Output



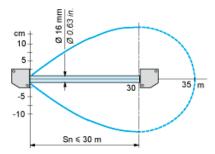
BN: Brown BU: Blue BK: Black (NO)

Grey (Relay common)
White (NC) GY:

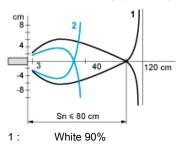
WH:

Detection Curves

With Thru-beam Accessory (Thru-beam)



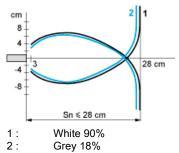
Without Accessory (Diffuse)



2: Grey 18%

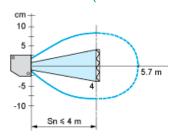
Object 10 x 10 cm

Without Accessory (Diffuse with background suppression)



Object 10 x 10 cm

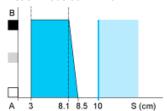
With reflector (Polarised reflex)



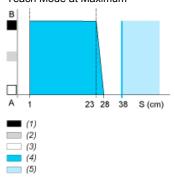
With reflector XUZC50

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

Teach Mode at Minimum



Teach Mode at Maximum



A-B: Object reflection coefficient

Black 6%
 Grey 18%
 White 90%
 Sensing ran
 Non sensing

(4) Sensing range (5) Non sensing zone (matt surfaces)