# 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	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

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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[RETURN]CSA[RETURN]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**

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.0 cm
Package 1 Width	13.0 cm
Package 1 Length	13.5 cm
Package 1 Weight	550.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	12
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	7.074 kg
Unit Type of Package 3	P06
Number of Units in Package 3	192
Package 3 Height	75 cm
Package 3 Width	40 cm
Package 3 Length	80 cm
Package 3 Weight	130.6 kg

### Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	☑ REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	₫Yes
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

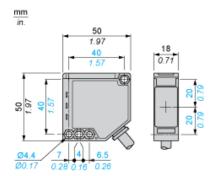
### Contractual warranty

Warranty	18 months

# Product data sheet Dimensions Drawings

# XUK0ARCTL10

### **Dimensions**

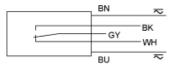


## Product data sheet Connections and Schema

# XUK0ARCTL10

### Wiring Schemes

### Relay Output

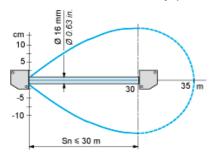


BN: Brown BU: Blue BK: Black (NO) GY: Grey (Relay common) WH: White (NC)

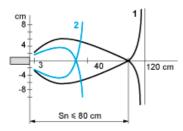
### XUK0ARCTL10

#### **Detection Curves**

### With Thru-beam Accessory (Thru-beam)



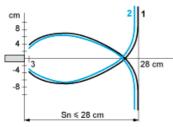
### Without Accessory (Diffuse)



1: White 90% 2: Grey 18%

Object 10 x 10 cm

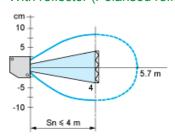
### Without Accessory (Diffuse with background suppression)



1: White 90%

2: Grey 18% Object 10 x 10 cm

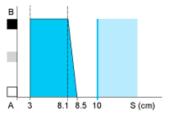
### With reflector (Polarised reflex)



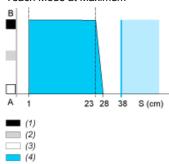
With reflector XUZC50

### 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)