XUK0ARCTL10

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



Main

Telemecanique Photoelectric sensors XU General purpose multimode Photo-electric sensor XUK Compact 50 x 50
Photo-electric sensor XUK
XUK
Compact FO v FO
Compact 50 x 50
Multimode
Plastic
Discrete
AC/DC
5-wire
1 NO or 1 NC programmable
Cable
10 m
-
Infrared diffuse Infrared diffuse with background suppression Infrared thru beam Red polarised reflex
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

PBT
РММА
35 M thru beam 0.28 M diffuse with background suppression 1.2 M diffuse 5.7 m polarised reflex
Relay
Without, <= 50 mA with overload and short-circuit protection
PvR
1 LED (green) for supply 1 LED (red) for instability 1 LED (yellow) for output state
24240 V AC 24240 V DC
20264 V AC 20264 V DC
3 A (cos ϕ = 1 for 0.5 million cycles at 1 operating cycle per second at 250 V)
<= 20 Hz
<1.5 V (closed state)
3 W AC/DC
010 s monostable, on-delay or off-delay (programmable) delay
300 ms
25 ms
25 ms
Self-teaching
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

•	
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
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
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

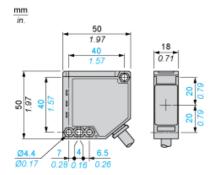
Warranty	18 months



Product data sheet Dimensions Drawings

XUK0ARCTL10

Dimensions

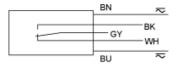


Product data sheet Connections and Schema

XUK0ARCTL10

Wiring Schemes

Relay Output



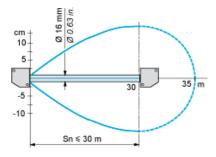
BN: Brown BU: Blue BK: Black (NO)

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

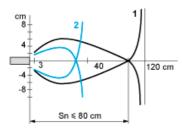
XUK0ARCTL10

Detection Curves

With Thru-beam Accessory (Thru-beam)



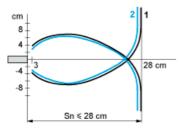
Without Accessory (Diffuse)



1: White 90% 2: Grey 18%

Object 10 x 10 cm

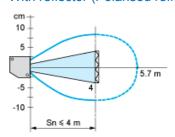
Without Accessory (Diffuse with background suppression)



1: White 90% 2: Grey 18%

Object 10 x 10 cm

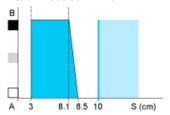
With reflector (Polarised reflex)



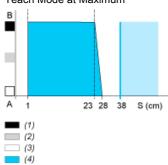
With reflector XUZC50

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)