XUK0AKSAL10

Photoelectric sensors XU, XUK, multi, Sn 0...30 m, 12...24 VDC, cable 10 m





Main

IVIAIII	
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	DC
Wiring Technique	3-wire
Discrete output type	PNP or NPN
Discrete output function	1 NO or 1 NC programmable
Electrical connection	Cable
Cable length	32.81 ft (10 m)
Product Specific Application	-
Emission	Infrared diffuse Infrared diffuse with background suppression Infrared thru beam Red polarised reflex
[Sn] nominal sensing distance	13.12 Ft (4 m) polarised reflex need reflector XUZC50 98.43 Ft (30 m) thru beam need a transmitter XUK0AKSAL10T 0.92 Ft (0.28 m) diffuse with background suppression

2.62 ft (0.8 m) diffuse

Complementary

Complementary		
Enclosure Material	PBT	
Lens material	PMMA	
Maximum sensing distance	114.83 Ft (35 m) thru beam 0.92 Ft (0.28 m) diffuse with background suppression 3.94 Ft (1.2 m) diffuse 18.70 ft (5.7 m) polarised reflex	
Output Type	Solid state	
Add on output	With alarm output, <= 50 mA overload and short-circuit protection	
Wire insulation material	PvR	
Status LED	1 LED green)supply 1 LED red)instability 1 LED yellow)output state	
[Us] rated supply voltage	1224 V DC reverse polarity protection	
Supply voltage limits	1036 V DC	
Switching capacity in mA	<= 100 mA overload and short-circuit protection)	
Switching frequency	<= 250 Hz	
Maximum voltage drop	<1.5 V closed state)	
Current consumption	<= 35 mA no-load	
Maximum delay first up	200 ms	
Maximum delay response	2 ms	
Maximum delay recovery	2 ms	
Setting-up	Self-teaching	

Depth	1.97 in (50 mm)	
Height	1.97 in (50 mm)	
Width	0.71 in (18 mm)	

Environment

Product Certifications	CSA	
	UL	
	CE	
Ambient Air Temperature for Operation	-13131 °F (-2555 °C)	
Ambient Air Temperature for Storage	-40158 °F (-4070 °C)	
Vibration resistance	7 gn +/- 1.5 mm 1055 Hz) IEC 60068-2-6	
Shock resistance	30 gn 11 ms) IEC 60068-2-27	
IP degree of protection	IP65 double insulation IEC 60529	

Ordering and shipping details

Category	22481-SENSORS, PHOTOELECTRIC
Discount Schedule	DS2
GTIN	3389110565782
Returnability	No
Country of origin	ID

Packing Units

I acking office	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.76 in (7.0 cm)
Package 1 Width	5.51 in (14.0 cm)
Package 1 Length	5.91 in (15.0 cm)
Package 1 Weight	18.27 oz (518.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	12
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	14.66 lb(US) (6.648 kg)

Offer Sustainability

Sustainable offer status	Green Premium product	
California proposition 65 WARNING: This product can expose you to chemicals includ phthalate (DINP), which is known to the State of California to and Di-isodecyl phthalate (DIDP), which is known to the State to cause birth defects or other reproductive harm. For more in www.P65Warnings.ca.gov		
REACh Regulation	[™] REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
Mercury free	Yes	
RoHS exemption information	€Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End Of Life Information	

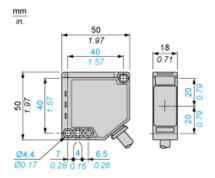
Contractual warranty

Warranty 18 months		
To monate	VValiality	

Product data sheet Dimensions Drawings

XUK0AKSAL10

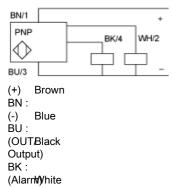
Dimensions



XUK0AKSAL10

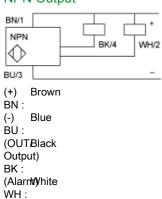
Wiring Schemes

PNP Output



NPN Output

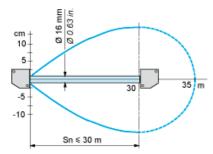
WH:



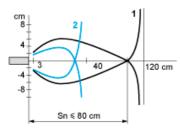
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Detection Curves

With Thru-beam Accessory (Thru-beam)



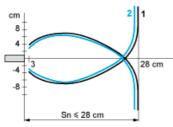
Without Accessory (Diffuse)



1: White 90% 2: Grey 18%

Object 10 x 10 cm

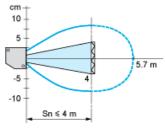
Without Accessory (Diffuse with background suppression)



1: White 90%

2: Grey 18% Object 10 x 10 cm

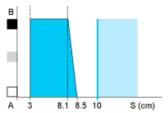
With reflector (Polarised reflex)



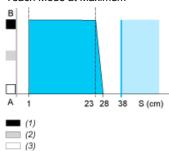
With reflector XUZC50

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

(4) (5)

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