XUX0AKSAM12

Photoelectric sensors XU, XUX, multi, Sn 0...40 m, 12...24 VDC, M12



Main

Range of product	Telemecanique Photoelectric sensors XU		
Series name	General purpose multimode		
Electronic sensor type	Photo-electric sensor		
Sensor name	XUX		
Sensor design	Compact 92 x 71		
Detection system	Multimode		
Material	Plastic		
Type of output signal	Discrete		
Supply circuit type	DC		
Wiring technique	3-wire		
Discrete output function	1 NO or 1 NC programmable		
Electrical connection	1 male connector M12, 4 pins		
Product specific application	-		
Emission	Infrared diffuse Infrared diffuse with background suppression Infrared thru beam Red polarised reflex		
[Sn] nominal sensing distance	11 M polarised reflex need reflector XUZC50 40 M thru beam need a transmitter XUX0AKSAM12T 2 M diffuse 1.3 m diffuse with background suppression		

Complementary

Complementary			
Enclosure material	PBT		
Lens material	РММА		
Maximum sensing distance	15 M polarised reflex 3 M diffuse 60 M thru beam 1.3 m diffuse with background suppression		
Output type	Solid state		
Add on output	With alarm output, <= 100 mA with overload and short-circuit protection		
Status LED	1 LED (green) for supply 1 LED (red) for instability 1 LED (yellow) for output state		
[Us] rated supply voltage	1224 V DC with reverse polarity protection		
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	77 mm		
Height	92 mm		
Width	31 mm		
Net weight	0.2 kg		

Environment

Product certifications UL[RETURN]CSA[RETURN]CE		
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-	
Shock resistance	30 gn (duration = 11 ms) conforming to IEC 60068-2-27	
IP degree of protection	IP65 double insulation conforming to IEC 60529 IP67 double insulation conforming to IEC 60529	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.200 cm
Package 1 Width	9.500 cm
Package 1 Length	13.000 cm
Package 1 Weight	199.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	4.687 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

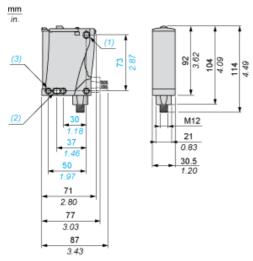
147	40
Warranty	18 months



Product data sheet **Dimensions Drawings**

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Dimensions



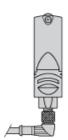
- (1) Elongated hole Ø 5.5 x 7
- (2) Elongated hole Ø 5.5 x 9 (3) Ø 5.5 hole

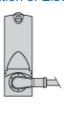
Product data sheet Mounting and Clearance

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Mounting and Clearance

Possible Orientation of Elbowed Connector (Rear View)



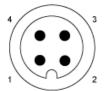


Product data sheet Connections and Schema

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Wiring Schemes

M12 Connector



PNP/NPN DC

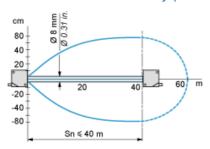
M12		Terminals		
1	•	1	\oslash	+
3	•	2	\oslash	-
4	•	3	\oslash	Output
2	•	4	Ø	Alarm inactive

Product data sheet Performance Curves

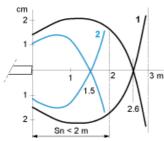
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Detection Curves

With Thru-beam Accessory (Thru-beam)



Without Accessory (Diffuse)

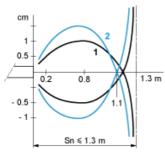


1: White 90%

2: Grey 18%

Object 10 x 10 cm

Without Accessory (Diffuse with background suppression)

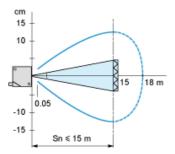


1: White 90%

2: Grey 18%

Object 10 x 10 cm

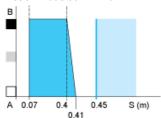
With reflector (Polarised reflex)



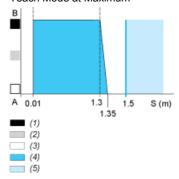
With reflector XUZC50

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