XUX0AKSAT16

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





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	Screw-clamp terminals, 1 x 1.5 mm 2 or 1 x 0.75 mm 2 with adaptor		
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 XUX0AKSAT16T 2 M diffuse 1.3 m diffuse with background suppression		

Complementary

Complementary			
Enclosure material	PBT		
Lens material	PMMA		
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		
Cable entry	1 entry for M16 x 1.5 cable gland, cable outer diameter: 710 mm		
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		

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherent or and is not to be used for determining suitability or inhability of these products for specific user applications. It is the dourn aren in integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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 60068-2-6	
Shock resistance	30 gn (duration = 11 ms) conforming to IEC 60068-2-27	
IP degree of protection IP65 double insulation conforming to IEC 60529 IP67 double insulation conforming to IEC 60529		

Packing Units

PCE
1
4.200 cm
9.500 cm
13.000 cm
201.000 g
S02
22
15 cm
30 cm
40 cm
4.741 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		

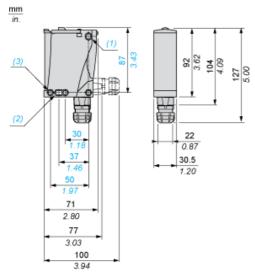
Contractual warranty

Warranty	18 months
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Product data sheet Dimensions Drawings

XUX0AKSAT16

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 Connections and Schema

XUX0AKSAT16

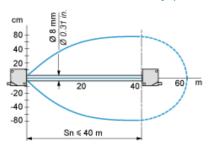
Wiring Schemes

PNP/NPN DC

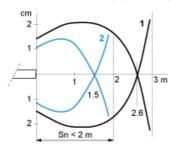
M12		Terminals		
1	•	1	\oslash	+
3	•	2	\oslash	-
4	•	3	\oslash	Output
2	•	4	\oslash	Alarm inactive

Detection Curves

With Thru-beam Accessory (Thru-beam)



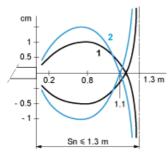
Without Accessory (Diffuse)



White 90% 2: Grey 18%

Object 10 x 10 cm

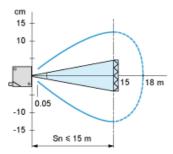
Without Accessory (Diffuse with background suppression)



1: White 90% 2: Grey 18% White 90%

Object 10 x 10 cm

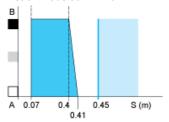
With reflector (Polarised reflex)



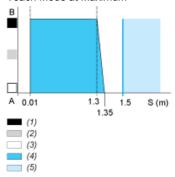
With reflector XUZC50

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)