XUX0AKSAM12

photo-electric sensor - XUX - multi - Sn 0..40m - 12..24VDC - M12





Main

Mani			
Range of product	OsiSense 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			
Voltage drop	<= 1.5 V (closed state)			
Current consumption	<= 35 mA (no-load)			
Delay first up	< 200 ms			
Delay response	< 2 ms			
Delay recovery	< 2 ms			
Setting-up	Self-teaching			
Depth	77 mm			
Height	92 mm			
Width	31 mm			
Product weight	0.2 kg			

Environment

Product certifications	CE CSA 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 IP67 double insulation conforming to IEC 60529		

Offer Sustainability

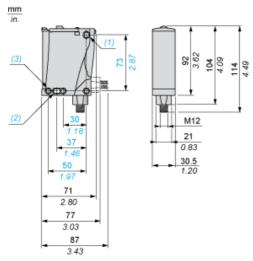
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0914 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold



Product data sheet **Dimensions Drawings**

XUX0AKSAM12

Dimensions



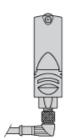
- (1) Elongated hole Ø 5.5 x 7
- (2) Elongated hole Ø 5.5 x 9 (3) Ø 5.5 hole

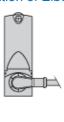
Product data sheet Mounting and Clearance

XUX0AKSAM12

Mounting and Clearance

Possible Orientation of Elbowed Connector (Rear View)



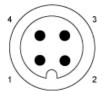


Product data sheet Connections and Schema

XUX0AKSAM12

Wiring Schemes

M12 Connector



PNP/NPN DC

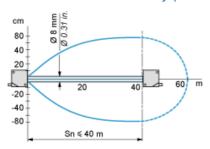
M12		Terminals		
1	•	1	\oslash	+
3	•	2	\oslash	-
4	•	3	\oslash	Output
2	•	4	Ø	Alarm inactive

Product data sheet Performance Curves

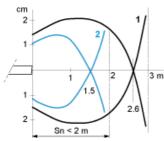
XUX0AKSAM12

Detection Curves

With Thru-beam Accessory (Thru-beam)



Without Accessory (Diffuse)

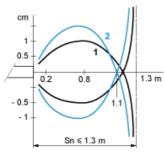


1: White 90%

2: Grey 18%

Object 10 x 10 cm

Without Accessory (Diffuse with background suppression)

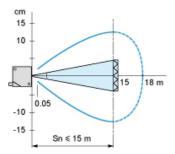


1: White 90%

2: Grey 18%

Object 10 x 10 cm

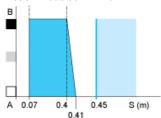
With reflector (Polarised reflex)



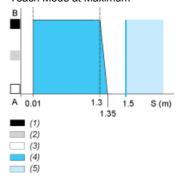
With reflector XUZC50

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)