Product data sheet Characteristics

XUX8AKSAM12

photo-electric sensor - XUX - BGS - Sn 2m - 12..24VDC - M12





Main

Range of product	OsiSense XU		
Series name	General purpose single mode		
Electronic sensor type	Photo-electric sensor		
Sensor name	XUX		
Sensor design	Compact 92 x 71		
Detection system	Diffuse with background suppression		
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	1 male connector M12, 4 pins		
Product specific application	Long sensing distance with high accuracy		
Emission	Infrared		
[Sn] nominal sensing distance	2 m		

Buy online

Complementary

Complementary				
Enclosure material	PC			
Lens material	РММА			
Output type	Solid state			
Status LED	1 LED (green) for supply on 1 LED (red) for instability 1 LED (yellow) for output state			
[Us] rated supply voltage	1224 V DC with reverse polarity protection			
Supply voltage limits	1036 V DC			
Switching capacity in mA	<= 100 mA (overload and short-circuit protection)			
Switching frequency	150 Hz			
Voltage drop	<= 1.5 V (closed state)			
Current consumption	35 mA (no-load)			
Delay first up	< 200 ms			
Delay response	< 3.5 ms			
Delay recovery	< 2.5 ms			
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 (f = 1055 Hz) conforming to IEC 60068-2-6		
Shock resistance	10 gn (duration = 11 ms) conforming to IEC 60068-2-27		
IP degree of protection	IP30 (with cover open) conforming to IEC 60529 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 1136 - Schneider Electric declaration of conformi-		
	ty 🗗 Schneider Electric declaration of conformity		
REACh	Reference not containing SVHC above the threshold		

Contractual warranty

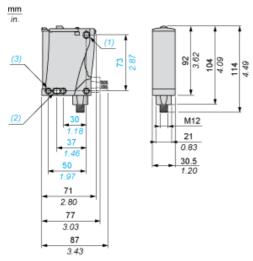
Warranty period	18 months	



Product data sheet **Dimensions Drawings**

XUX8AKSAM12

Dimensions



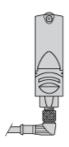
- (1) Elongated hole Ø 5.5 x 7
- (2) Elongated hole Ø 5.5 x 9 (3) Ø 5.5 hole

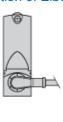
Product data sheet Mounting and Clearance

XUX8AKSAM12

Mounting and Clearance

Possible Orientation of Elbowed Connector (Rear View)



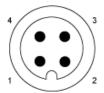


Product data sheet Connections and Schema

XUX8AKSAM12

Wiring Schemes

M12 Connector



PNP/NPN DC

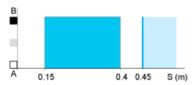
M12		Terminals		
1	•	1	\oslash	+
3	•	2	\oslash	-
4	•	3	\oslash	Output
2	•	4	Ø	Alarm inactive

XUX8AKSAM12

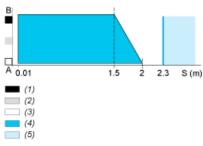
Detection Curves

Variation of Usable Sensing Distance Su

Teach Mode at Minimum



Teach Mode at Maximum



A-B: Object reflection coefficient

(1) Black 6%

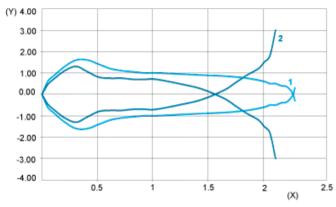
(2) Grey 18%

(3) White 90%

(4)

Sensing range Non sensing zone (matt surfaces)

Detection Curves



1: White 90%

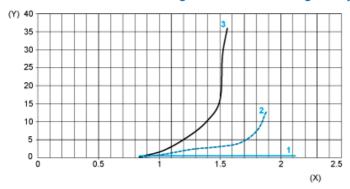
2: Grey 18%

(Y) Detection lobe (cm)

(X) Object distance (m)

Object 10 x 10 cm

Relative Difference in Sensing Distances According to Object Colour



1: White 90%
2: Grey 18%
3: Black 6%
(X) Polative or

(Y) Relative error (%)
(X) Object distance (m)

Object 10 x 10 cm