# 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		

Complementary			
Enclosure material	PC		
Lens material	РММА		
Output type	Solid state		
Status LED	Supply on: 1 LED (green) Instability: 1 LED (red) Output state: 1 LED (yellow)		
[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		
Maximum voltage drop	<1.5 V (closed state)		
Current consumption	35 mA no-load		
Maximum delay first up	200 ms		
Maximum delay response	3.5 ms		
Maximum delay recovery	2.5 ms		
Net 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 conforming to IEC 60529 (with cover open) IP65 conforming to IEC 60529 (double insulation) IP67 conforming to IEC 60529 (double insulation)		



## Packing Units

0	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	192 g
Package 1 Height	13.2 cm
Package 1 width	9.4 cm
Package 1 Length	4.2 cm
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Weight	4.48 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

## Offer Sustainability

Sustainable offer status	Green Premium product		
REACh Regulation			
U RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) 🗗 EU Ro Declaration		
Mercury free	Yes		
RoHS exemption information	₫ Yes		
Environmental Disclosure	Product Environmental Profile		
Circularity Profile	End of Life Information		

### Contractual warranty

Warranty

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



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### Mounting and Clearance

Possible Orientation of Elbowed Connector (Rear View)







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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	$\oslash$	Alarm inactive



# Product data sheet Performance Curves

# XUX8AKSAM12

**Detection Curves** 

### Variation of Usable Sensing Distance Su



Sensing range Non sensing zone (matt surfaces)

#### **Detection Curves**

(4)

(5)



Object 10 x 10 cm



### Relative Difference in Sensing Distances According to Object Colour



White 90% 1:

2 : Grey 18% 3 : Black 6%

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

Object 10 x 10 cm

