# XUX0AKSAM12

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

Product availability: Stock - Normally stocked in distribution facility



#### Main

IVIAIII			
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	6.56 ft (2 m) diffuse 4.27 ft (1.3 m) diffuse with background suppression 131.23 ft (40 m) thru beam need a transmitter XUXOAKSAM12T 36.09 ft (11 m) polarised reflex need reflector XUZC50		

#### Complementary

Enclosure material	PBT		
Lens material	PMMA		
Maximum sensing distance	49.21 ft (15 m) polarised reflex 9.84 ft (3 m) diffuse 196.85 ft (60 m) thru beam 4.27 ft (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) supply 1 LED (red) instability 1 LED (yellow) 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	3.03 in (77 mm)		
Height	3.62 in (92 mm)		
Width	1.22 in (31 mm)		
Product weight	0.44 lb(US) (0.2 kg)		

## Environment

Product certifications	CSA CE UL		
Ambient air temperature for operation	-13131 °F (-2555 °C)		
Ambient air temperature for storage	-40158 °F (-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		

## Ordering and shipping details

0 11 0		
Category	22481 - SENSORS, PHOTOELECTRIC	
Discount Schedule	DS2	
GTIN	00785901582489	
Nbr. of units in pkg.	1	
Package weight(Lbs)	0.41999999999998	
Returnability	Υ	
Country of origin	FR	

## Offer Sustainability

RoHS (date code: YYWW)	Compliant - since 0914 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity	
REACh	Reference not containing SVHC above the threshold	
California proposition 65	WARNING: This product can expose you to chemicals including:	
Substance 1	Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and	
Substance 2	Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.	
More information	For more information go to www.p65warnings.ca.gov	

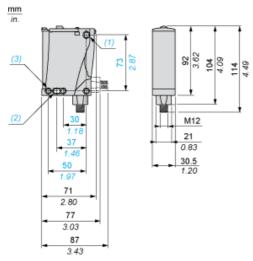
## Contractual warranty

Warranty period	18 months

## Product data sheet **Dimensions Drawings**

# XUX0AKSAM12

## **Dimensions**



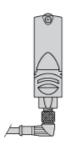
- (1) Elongated hole Ø 5.5 x 7
- (2) Elongated hole Ø 5.5 x 9 (3) Ø 5.5 hole

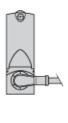
# Product data sheet Mounting and Clearance

# XUX0AKSAM12

## Mounting and Clearance

Possible Orientation of Elbowed Connector (Rear View)



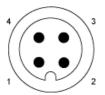


## Product data sheet Connections and Schema

# XUX0AKSAM12

## Wiring Schemes

## M12 Connector



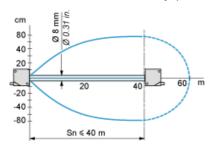
## PNP/NPN DC

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

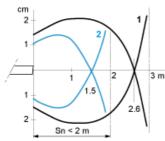
## XUX0AKSAM12

#### **Detection Curves**

## With Thru-beam Accessory (Thru-beam)



## Without Accessory (Diffuse)

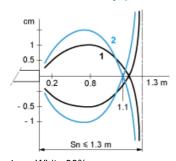


1: White 90%

2: Grey 18%

Object 10 x 10 cm

## Without Accessory (Diffuse with background suppression)

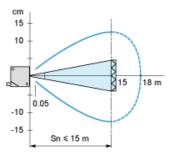


1: White 90%

2: Grey 18%

Object 10 x 10 cm

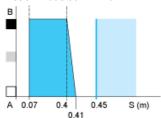
#### With reflector (Polarised reflex)



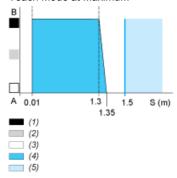
With reflector XUZC50

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)

# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Schneider Electric: XUX0AKSAM12