## XUX0AKSAM12

Photoelectric sensors XU, XUX, multi, Sn 0...40 m, 12...24 VDC, M12





#### Main

IVIAIII		
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	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	36.09 Ft (11 m) polarised reflex need reflector XUZC50 131.23 Ft (40 m) thru beam need a transmitter XUX0AKSAM12T 6.56 Ft (2 m) diffuse 4.27 ft (1.3 m) diffuse with background suppression	

#### Complementary

PMMA		
cuit protection		
<1.5 V closed state)		
<= 35 mA no-load		
200 ms		
2 ms		
Self-teaching		
3.03 in (77 mm)		
3.62 in (92 mm)		
1.22 in (31 mm)		

#### **Environment**

Product Certifications	UL CSA CE	
Ambient Air Temperature for Operation	-13131 °F (-2555 °C)	
Ambient Air Temperature for Storage	-40158 °F (-4070 °C)	
Vibration resistance	7 gn +/- 1.5 mm 1055 Hz) IEC 60068-2-6	
Shock resistance	30 gn 11 ms) IEC 60068-2-27	
IP degree of protection	IP65 double insulation IEC 60529 IP67 double insulation IEC 60529	

## Ordering and shipping details

Category	22481-SENSORS, PHOTOELECTRIC
Discount Schedule	DS2
GTIN	3389110168020
Returnability	Yes
Country of origin	FR

## Packing Units

<b>5</b>	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.65 in (4.200 cm)
Package 1 Width	3.74 in (9.500 cm)
Package 1 Length	5.12 in (13.000 cm)
Package 1 Weight	7.02 oz (199.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	10.33 lb(US) (4.687 kg)

## Offer Sustainability

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

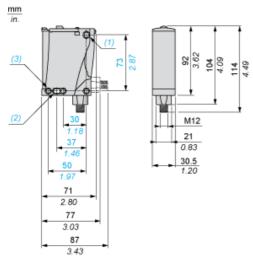
## Contractual warranty

Warranty	18 months

## Product data sheet **Dimensions Drawings**

# XUX0AKSAM12

## **Dimensions**



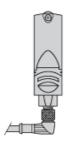
- (1) Elongated hole Ø 5.5 x 7
- (2) Elongated hole Ø 5.5 x 9 (3) Ø 5.5 hole

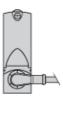
# Product data sheet Mounting and Clearance

## XUX0AKSAM12

## Mounting and Clearance

Possible Orientation of Elbowed Connector (Rear View)



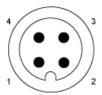


## Product data sheet Connections and Schema

# XUX0AKSAM12

## Wiring Schemes

## M12 Connector



## PNP/NPN DC

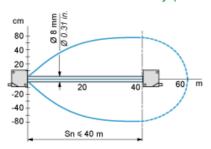
M12		Terminals		
1	•	1	$\oslash$	+
3	•	2	$\oslash$	-
4	•	3	$\oslash$	Output
2	•	4	Ø	Alarm inactive

# Product data sheet Performance Curves

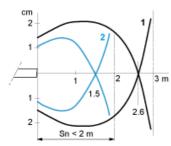
## XUX0AKSAM12

#### **Detection Curves**

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



## Without Accessory (Diffuse)

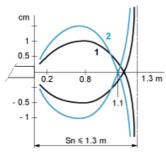


1: White 90%

2: Grey 18%

Object 10 x 10 cm

## Without Accessory (Diffuse with background suppression)

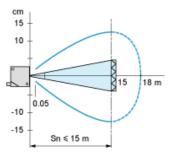


1: White 90%

2: Grey 18%

Object 10 x 10 cm

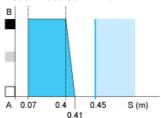
#### With reflector (Polarised reflex)



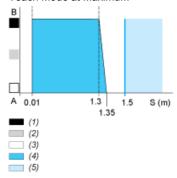
With reflector XUZC50

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)