## Product data sheet Characteristics

# XUX8ARCTT16

photo-electric sensor - XUX - BGS - Sn 2m -24..240VAC/DC - terminals



TTION	
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	AC/DC
Wiring technique	5-wire
Discrete output function	1 NO or 1 NC programmable
Electrical connection	Screw-clamp terminals, 1 x 0.751 x 1.5 mm²
Product specific application	Long sensing distance with high accuracy
Emission	Infrared
[Sn] nominal sensing distance	2 m

### Complementary

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[Sn] nominal sensing distance  Complementary  Enclosure material	2 m	
[Sn] nominal sensing distance  Complementary  Enclosure material  Lens material	2 m	
[Sn] nominal sensing distance  Complementary	2 m PC PMMA	
[Sn] nominal sensing distance  Complementary  Enclosure material  Lens material  Output type	2 m  PC PMMA Relay	
[Sn] nominal sensing distance  Complementary  Enclosure material  Lens material  Output type  Cable entry  Status LED	PC PMMA Relay ISO 16 cable gland, cable outer diameter: 710 mm 1 LED (green) for supply on 1 LED (red) for instability	
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[Sn] nominal sensing distance  Complementary  Enclosure material  Lens material  Output type  Cable entry  Status LED  [Us] rated supply voltage  Supply voltage limits  Switching frequency  Voltage drop  Current consumption	PC PMMA Relay ISO 16 cable gland, cable outer diameter: 710 mm  1 LED (green) for supply on 1 LED (red) for instability 1 LED (yellow) for output state  24240 V AC/DC  20264 V AC/DC  20 Hz <= 1.5 V (closed state)  35 mA (no-load)	

Delay recovery	< 25 ms	
Electrical durability	500000 cycles, switching capacity: 0.5 A, cos f = 0.4 500000 cycles, switching capacity: 3 A, cos f = 1	
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		
RoHS (date code: YYWW)	Compliant - since 1136 - Schneider Electric declaration of conformity	
	Schneider Electric declaration of conformity	
REACh	Reference not containing SVHC above the threshold	
	Reference not containing SVHC above the threshold	

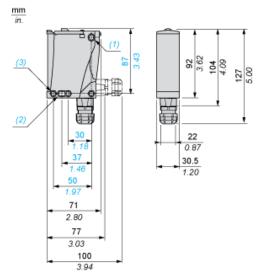
18 months

Warranty period

## Product data sheet **Dimensions Drawings**

# XUX8ARCTT16

### **Dimensions**



- Elongated hole  $\varnothing$  5.5 x 7 Elongated hole  $\varnothing$  5.5 x 9  $\varnothing$  5.5 hole (1) (2) (3)

## Product data sheet Connections and Schema

# XUX8ARCTT16

## Wiring Schemes

## Relay Output AC/DC

Terminals	
1	AC/DC
2	AC/DC
3	NO
4	Relay common
5	NC

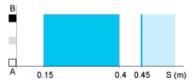
# Product data sheet Performance Curves

## XUX8ARCTT16

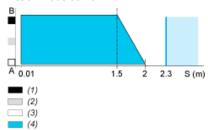
#### **Detection Curves**

#### Variation of Usable Sensing Distance Su

#### Teach Mode at Minimum



#### Teach Mode at Maximum



A-B: Object reflection coefficient

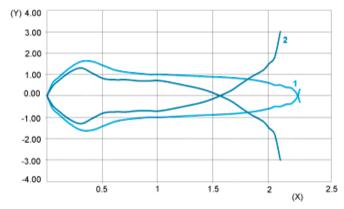
(1) Black 6% (2) Grey 18% (3) White 90%

(5)

(4) Sensing range

(5) Non sensing zone (matt surfaces)

#### **Detection Curves**

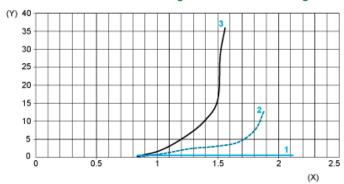


1: White 90% 2: Grey 18%

(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%

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

Object 10 x 10 cm