# Product data sheet
## Characteristics

# XUX0ARCTT16
photo electric sensor, XUX, multi, Sensing 0 to 40 meters, 24 to 240 VAC/DC, terminals



## Main

| | |
|---|---|
| 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 | AC/DC |
| Wiring Technique | 5-wire |
| Discrete output function | 1 NO or 1 NC programmable |
| Electrical connection | Screw-clamp terminals, 1 x 1.5 mm² or 1 x 0.75 mm² with adaptor |
| Product Specific Application | - |
| Emission | Infrared diffuse<br>Infrared diffuse with background suppression<br>Infrared thru beam<br>Red polarised reflex |
| [Sn] nominal sensing distance | 36.09 Ft (11 m) polarised reflex need reflector XUZC50<br>131.23 Ft (40 m) thru beam need a transmitter XUX0ARCTT16T<br>6.56 Ft (2 m) diffuse<br>4.27 ft (1.3 m) diffuse with background suppression |

## Complementary

| | |
|---|---|
| Enclosure Material | PBT |
| Lens material | PMMA |
| Maximum sensing distance | 49.21 Ft (15 m) polarised reflex<br>9.84 Ft (3 m) diffuse<br>196.85 Ft (60 m) thru beam<br>4.27 ft (1.3 m) diffuse with background suppression |
| Output Type | Relay |
| Add on output | With alarm output, <= 100 mA overload and short-circuit protection |
| Cable entry | 1 entry for M16 x 1.5 cable gland 0.28…0.39 in (7…10 mm) |
| Status LED | 1 LED green)supply<br>1 LED red)instability<br>1 LED yellow)output state |
| [Us] rated supply voltage | 24...240 V AC/DC |
| Switching capacity in mA | 0.5 A cos φ = 0.4 for 0.5 million cycles at 1 operating cycle per second at 250 V)<br>3 A cos φ = 1 for 0.5 million cycles at 1 operating cycle per second at 250 V) |
| Switching frequency | <= 20 Hz |
| Maximum voltage drop | <1.5 V closed state) |
| Maximum power consumption in W | 2 W AC/DC |
| Time delay range | 0.02...15 s monostable, on-delay or off-delay (programmable) |
| Maximum delay first up | 200 ms |
| Maximum delay response | 25 ms |
| Maximum delay recovery | 25 ms |
| Setting-up | Self-teaching |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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| | |
|---|---|
| Electrical durability | 500000 Cycles 1 60 cyc/mn 250 V<br>500000 cycles 0.4 60 cyc/mn 250 V |
| Depth | 3.03 in (77 mm) |
| Height | 3.62 in (92 mm) |
| Width | 1.22 in (31 mm) |
| Net Weight | 0.44 lb(US) (0.2 kg) |

## Environment

| | |
|---|---|
| Product Certifications | UL<br>CE<br>CSA |
| Ambient air temperature for operation | -13…131 °F (-25…55 °C) |
| Ambient Air Temperature for Storage | -40…158 °F (-40…70 °C) |
| Vibration resistance | 7 gn +/- 1.5 mm 10…55 Hz) IEC 60068-2-6 |
| Shock resistance | 30 gn 11 ms) IEC 60068-2-27 |
| IP degree of protection | IP65 double insulation IEC 60529<br>IP67 double insulation IEC 60529 |

## Ordering and shipping details

| | |
|---|---|
| Category | 22481 - SENSORS, PHOTOELECTRIC |
| Discount Schedule | DS2 |
| GTIN | 3389110168068 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 7.37 oz (209 g) |
| Returnability | Yes |
| Country of origin | ID |

## Packing Units

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 5.12 in (13 cm) |
| Package 1 width | 3.74 in (9.5 cm) |
| Package 1 Length | 1.57 in (4 cm) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 22 |
| Package 2 Weight | 11.29 lb(US) (5.119 kg) |
| Package 2 Height | 5.91 in (15 cm) |
| Package 2 width | 11.81 in (30 cm) |
| Package 2 Length | 15.75 in (40 cm) |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 176 |
| Package 3 Weight | 110.01 lb(US) (49.9 kg) |
| Package 3 Height | 17.72 in (45 cm) |
| Package 3 width | 23.62 in (60 cm) |
| Package 3 Length | 31.50 in (80 cm) |

## Offer Sustainability

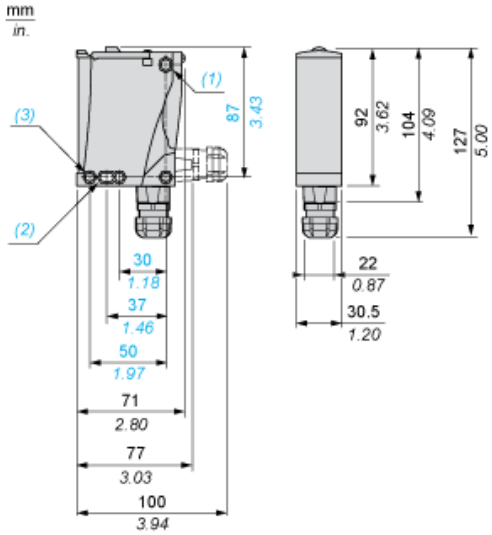
| | |
|---|---|
| Sustainable offer status | Green Premium product |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the 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) EU RoHS Declaration |
| Mercury free | Yes |

| | |
|---|---|
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |

## Contractual warranty

| | |
|---|---|
| Warranty | 18 months |

## Dimensions




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

## Wiring Schemes

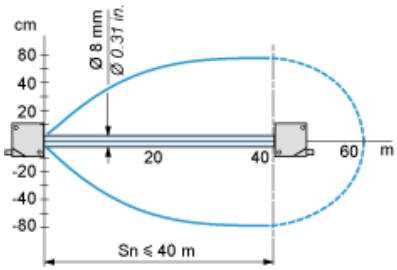
### Relay Output AC/DC

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

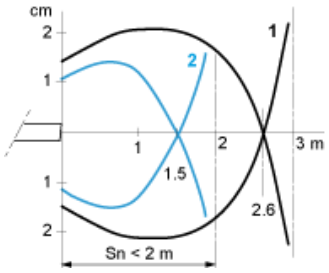
# XUX0ARCTT16

## Detection Curves

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

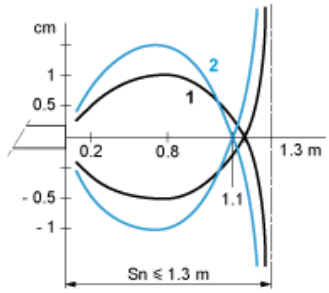



### Without Accessory (Diffuse)



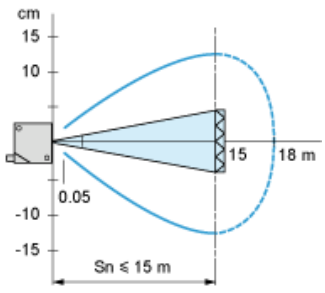

1 : White 90%
2 : Grey 18%
Object 10 x 10 cm

### Without Accessory (Diffuse with background suppression)




1 : White 90%
2 : Grey 18%
Object 10 x 10 cm

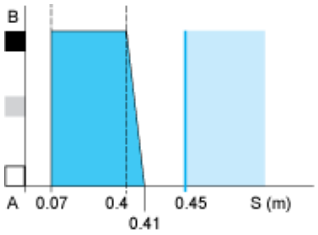
### With reflector (Polarised reflex)



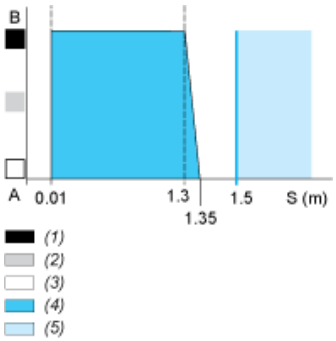

With reflector XUZC50

## 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)