

# Product data sheet

## Characteristics

# XUM0ANSAL2

photo-electric sensor - XUM - multi - Sn 0..10m - 12..24VDC - cable 2m

Product availability : Stock - Normally stocked in distribution facility



Price\* : 100.00 USD



### Main

|                               |  |
|-------------------------------|--|
| Range of product              | OsiSense XU  |
| Series name                   | General purpose multimode  |
| Electronic sensor type        | Photo-electric sensor  |
| Sensor name                   | XUM  |
| Sensor design                 | Miniature  |
| Detection system              | Multimode  |
| Material                      | Plastic  |
| Type of output signal         | Discrete   |
| Supply circuit type           | DC   |
| Wiring technique              | 3-wire   |
| Discrete output type          | NPN  |
| Discrete output function      | 1 NO or 1 NC programmable  |
| Electrical connection         | Cable  |
| Cable length                  | 6.56 ft (2 m)  |
| Product specific application  | -  |
| Emission                      | Infrared diffuse<br>Infrared diffuse with background suppression<br>Infrared thru beam<br>Red polarised reflex   |
| [Sn] nominal sensing distance | 0.33 ft (0.1 m) diffuse with background suppression<br>1.31 ft (0.4 m) diffuse<br>9.84 ft (3 m) polarised reflex need reflector XUZC50<br>32.81 ft (10 m) thru beam need a transmitter XUM0AKSAL2T |

### Complementary

|                          |                           |
|--------------------------|---------------------------|
| Enclosure material       | PBT                       |
| Lens material            | PMMA                      |
| Maximum sensing distance | 45.93 ft (14 m) thru beam |

13.12 ft (4 m) polarised reflex  
0.33 ft (0.1 m) diffuse with background suppression  
1.8 ft (0.55 m) diffuse

|                           |  |
|---------------------------|--|
| Output type               | Solid state  |
| Add on output             | With alarm output, 50 mA   |
| Wire insulation material  | PvR  |
| Status LED                | 1 LED (green) supply<br>1 LED (red) instability<br>1 LED (yellow) output state |
| [Us] rated supply voltage | 12...24 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            | < 100 ms   |
| Delay response            | < 2 ms   |
| Delay recovery            | < 2 ms   |
| Setting-up                | Self-teaching  |
| Depth                     | 0.79 in (20 mm)  |
| Height                    | 1.34 in (34 mm)  |
| Width                     | 0.47 in (12 mm)  |
| Product weight            | 0.11 lb(US) (0.05 kg)  |

## Environment

|                                       |  |
|---------------------------------------|--|
| Product certifications                | CE<br>UL<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, amplitude = +/- 1.5 mm (f = 10...55 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<br>IP67 double insulation conforming to IEC 60529 |

## Ordering and shipping details

|                       |                                |
|-----------------------|--------------------------------|
| Category              | 22481 - SENSORS, PHOTOELECTRIC |
| Discount Schedule     | DS2                            |
| GTIN                  | 00785901413196                 |
| Nbr. of units in pkg. | 1                              |
| Package weight(Lbs)   | 0.20999999999999999            |
| Returnability         | Y                              |
| Country of origin     | ID                             |

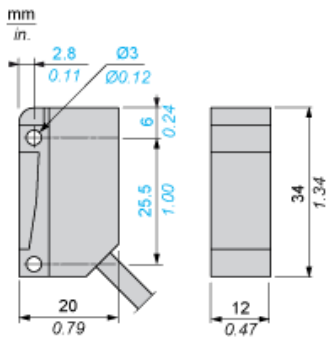
## Offer Sustainability

|                          |   |
|--------------------------|---|
| Sustainable offer status | Green Premium product   |
| RoHS (date code: YYWW)   | Compliant - since 0841 - Schneider Electric declaration of conformity<br><a href="#">Schneider Electric declaration of conformity</a> |
| REACH                    | Reference not containing SVHC above the threshold<br><a href="#">Reference not containing SVHC above the threshold</a>                |

## Contractual warranty

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

## Dimensions

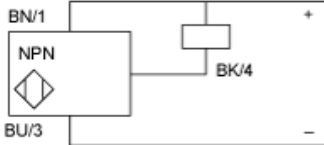


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Wiring Schemes

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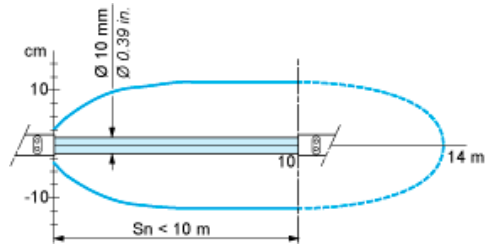
Receiver, NPN Output



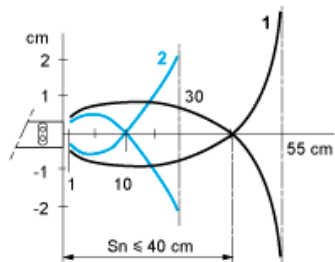
BN : Brown  
BU : Blue  
BK : Black

Detection Curves

With Thru-beam Accessory (Thru-beam)

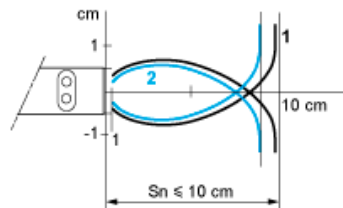


Without Accessory (Diffuse)



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

Without Accessory (Diffuse with background suppression)



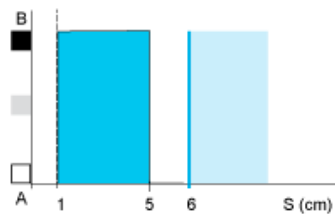
1 : White 90%  
2 : Grey 18%  
Object 10 x 10 cm

With reflector (Polarised reflex)

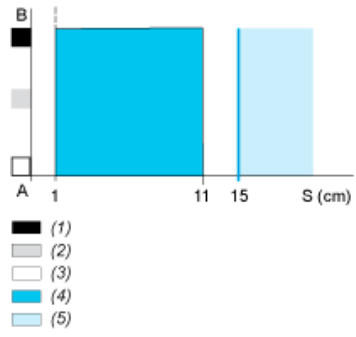
With reflector XUZC50

Variation of Usable Sensing Distance  $S_u$  (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)