

## Product data sheet

### Characteristics

# XUB5BNANM12

photo-electric sensor - XUB - diffuse - Sn 0.6m -  
12..24VDC - M12

Product availability : Stock - Normally stocked in distribution facility



Price\* : 62.90 USD



### Main

|                               |                              |
|-------------------------------|------------------------------|
| Range of product              | OsiSense XU                  |
| Series name                   | General purpose single mode  |
| Electronic sensor type        | Photo-electric sensor        |
| Sensor name                   | XUB                          |
| Sensor design                 | Cylindrical M18              |
| Detection system              | Diffuse                      |
| Material                      | Metal                        |
| Line of sight type            | Axial                        |
| Type of output signal         | Discrete                     |
| Supply circuit type           | DC                           |
| Wiring technique              | 3-wire                       |
| Discrete output type          | NPN                          |
| Discrete output function      | 1 NO                         |
| Electrical connection         | 1 male connector M12, 4 pins |
| Product specific application  | -                            |
| Emission                      | Infrared diffuse             |
| [Sn] nominal sensing distance | 1.97 ft (0.6 m) diffuse      |

### Complementary

|                          |                             |
|--------------------------|-----------------------------|
| Enclosure material       | Nickel plated brass         |
| Lens material            | PMMA                        |
| Maximum sensing distance | 2.62 ft (0.8 m) diffuse     |
| Output type              | Solid state                 |
| Add on output            | Without                     |
| Wire insulation material | PvR                         |
| Status LED               | 1 LED (yellow) output state |

|                           |                                                   |
|---------------------------|---------------------------------------------------|
| [Us] rated supply voltage | 12...24 V DC with reverse polarity protection     |
| Supply voltage limits     | 10...36 V DC                                      |
| Switching capacity in mA  | <= 100 mA (overload and short-circuit protection) |
| Switching frequency       | <= 500 Hz                                         |
| Voltage drop              | 1.5 V (closed state)                              |
| Current consumption       | 35 mA (no-load)                                   |
| Delay first up            | < 15 ms                                           |
| Delay response            | < 1 ms                                            |
| Delay recovery            | < 1 ms                                            |
| Setting-up                | Sensitivity adjustment                            |
| Diameter                  | 0.71 in (18 mm)                                   |
| Length                    | 3.07 in (78 mm)                                   |
| Product weight            | 0.12 lb(US) (0.055 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, 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<br>IP69K double insulation conforming to DIN 40050 |

## Ordering and shipping details

|                       |                                       |
|-----------------------|---------------------------------------|
| Category              | 22415 - SENSORS, PHOTOELECTRIC, BASIC |
| Discount Schedule     | DS2                                   |
| GTIN                  | 00785901510147                        |
| Nbr. of units in pkg. | 1                                     |
| Package weight(Lbs)   | 0.14999999999999999                   |
| Returnability         | N                                     |
| Country of origin     | FR                                    |

## Offer Sustainability

|                          |                                                                                                                                       |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status | Green Premium product                                                                                                                 |
| RoHS (date code: YYWW)   | Compliant - since 0847 - 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>                |

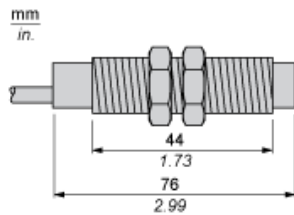
## Contractual warranty

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

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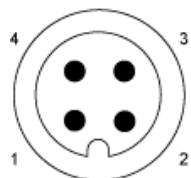
Dimensions

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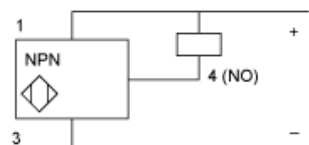
## Wiring Schemes

### M12 Connector



- 1 : (+)
- 3 : (-)
- 4 : OUT/Output

### NPN Outputs



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Detection Curves

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