

# XU8M18MB230WL5

photo-electric sensor - XU8 - BGS - 90° - Sn  
0.12m - 24..240VAC/DC - cable 5m



## Main

|                               |  |
|-------------------------------|--|
| Range of product              | OsiSense XU                                  |
| Series name                   | General purpose single mode                  |
| Electronic sensor type        | Photo-electric sensor                        |
| Sensor name                   | XU8  |
| Sensor design                 | Cylindrical M18                              |
| Detection system              | Diffuse with background suppression          |
| Material                      | Metal  |
| Line of sight type            | 90° lateral                                  |
| Type of output signal         | Discrete                                     |
| Supply circuit type           | AC/DC  |
| Wiring technique              | 2-wire                                       |
| Discrete output function      | 1 NC   |
| Electrical connection         | Cable  |
| Cable length                  | 5 m  |
| Product specific application  | -  |
| Emission                      | Infrared diffuse with background suppression |
| [Sn] nominal sensing distance | 0.12 m diffuse with background suppression   |

## Complementary

|                           |   |
|---------------------------|---|
| Enclosure material        | Nickel plated brass   |
| Lens material             | PMMA  |
| Maximum sensing distance  | 0.12 m  |
| Output type               | Solid state   |
| Add on output             | Without   |
| Wire insulation material  | PvR   |
| Status LED                | 1 LED (yellow) for output state   |
| [Us] rated supply voltage | 24...240 V AC/DC  |
| Supply voltage limits     | 20...264 V AC/DC  |
| Maximum residual current  | 1.5 mA open state   |
| Switching capacity in mA  | 10...200 mA (to be used with 0.4 A quick-blow fuse in series with the load) |
| Switching frequency       | <= 25 Hz  |
| Maximum voltage drop      | <6 V (closed state)   |
| Maximum delay first up    | 300 ms  |
| Maximum delay response    | 20 ms   |
| Maximum delay recovery    | 20 ms   |
| Setting-up                | Sensitivity adjustment  |
| Diameter                  | 18 mm   |
| Length                    | 97 mm   |



## Environment

|                                       |   |
|---------------------------------------|---|
| Product certifications                | UL<br>CSA<br>CE   |
| Ambient air temperature for operation | -25...55 °C   |
| Ambient air temperature for storage   | -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               | IP67 double insulation conforming to IEC 60529                            |

## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Weight | 0.001 kg |
| Package 1 Height | 0.010 dm |
| Package 1 width  | 0.010 dm |
| Package 1 Length | 0.020 dm |

## Offer Sustainability

|                            |  |
|----------------------------|--|
| Sustainable offer status   | Green Premium product  |
| REACH Regulation           |  <a href="#">REACH Declaration</a>  |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes  |
| RoHS exemption information |  <a href="#">Yes</a>  |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a>  |
| Circularity Profile        |  <a href="#">End of Life Information</a>  |

## Contractual warranty

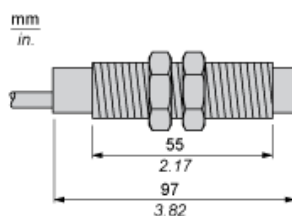
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|



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Dimensions

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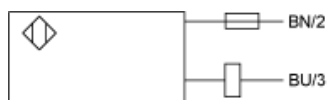


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## Wiring Schemes

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### 2-wire AC or DC

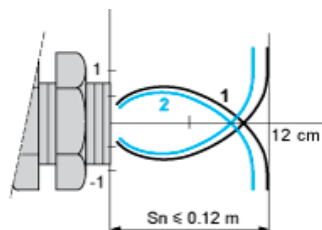


BU : Blue  
BN : Brown



## Detection Curves

### Diffuse System with Adjustable Background Suppression



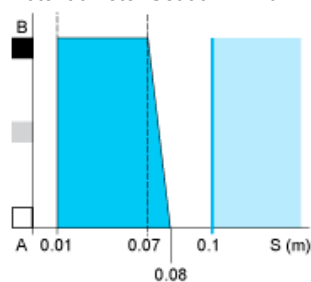
1 : White 90%

2 : Grey 18%

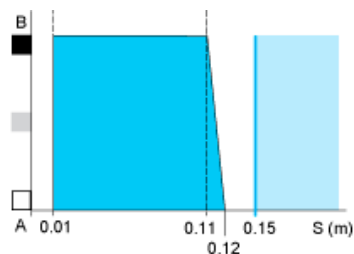
Object 10 x 10 cm

### Variation of Usable Sensing Distance $S_u$

Potentiometer Set at Minimum



Potentiometer Set at Maximum



- (1) Black 6%
- (2) Grey 18%
- (3) White 90%
- (4) Sensing range
- (5) Non sensing zone (matt surfaces)

A-B : Object reflection coefficient

(1) Black 6%

(2) Grey 18%

(3) White 90%

(4) Sensing range

(5) Non sensing zone (matt surfaces)