

# XU2M18MA230K

photo-electric sensor - XU2 - thru beam - Sn  
15m - 24..240VAC/DC - 1/2"



## Main

|                               |                                     |
|-------------------------------|-------------------------------------|
| Range of product              | OsiSense XU                         |
| Series name                   | General purpose single mode         |
| Electronic sensor type        | Photo-electric sensor               |
| Sensor name                   | XU2                                 |
| Sensor design                 | Cylindrical M18                     |
| Detection system              | Thru beam                           |
| Material                      | Metal                               |
| Line of sight type            | Axial                               |
| Type of output signal         | Discrete                            |
| Supply circuit type           | AC/DC                               |
| Wiring technique              | 2-wire                              |
| Discrete output function      | 1 NO                                |
| Electrical connection         | 1 male connector 1/2"20 UNF, 3 pins |
| Product specific application  | -                                   |
| Emission                      | Infrared thru beam                  |
| [Sn] nominal sensing distance | 15 m thru beam                      |

## Complementary

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| Enclosure material        | Nickel plated brass                                                         |
| Lens material             | PMMA                                                                        |
| Maximum sensing distance  | 20 m                                                                        |
| Output type               | Solid state                                                                 |
| Add on output             | Without                                                                     |
| Status LED                | 1 LED (yellow) for output state<br>1 LED (red) for instability              |
| [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                    | 95 mm                                                                       |
| Net weight                | 0.155 kg                                                                    |
| Kit composition           | Transmitter + receiver XU2M18MC230KT + XU2M18MA230KR                        |

## Environment

|                                       |                                                                           |
|---------------------------------------|---------------------------------------------------------------------------|
| Product certifications                | UL<br>CE<br>CSA                                                           |
| 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 conforming to IEC 60529                                              |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Weight             | 162 g    |
| Package 1 Height             | 13 cm    |
| Package 1 width              | 9 cm     |
| Package 1 Length             | 4.2 cm   |
| Unit Type of Package 2       | S01      |
| Number of Units in Package 2 | 11       |
| Package 2 Weight             | 1.998 kg |
| Package 2 Height             | 15 cm    |
| Package 2 width              | 15 cm    |
| Package 2 Length             | 40 cm    |

## 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>                                                          |

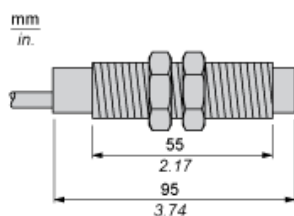
## Contractual warranty

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

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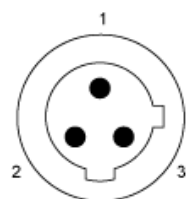
Dimensions

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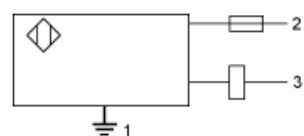
## Wiring Schemes

### Connector

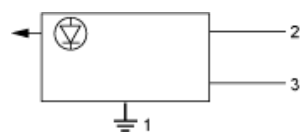


- 1 : Grounding
- 2 : AC/DC
- 3 : AC/DC

### 2-wire AC or DC



### Transmitter



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Detection Curves

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Thru-beam System

