



### 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         | 1 male connector M8, 4 pins  |
| Product specific application  | -  |
| Emission                      | Infrared diffuse<br>Infrared diffuse with background suppression<br>Infrared thru beam<br>Red polarised reflex   |
| [Sn] nominal sensing distance | 9.84 ft (3 m) polarised reflex need reflector XUZC50<br>32.81 ft (10 m) thru beam need a transmitter XUM0AKSAM8T<br>0.1 m diffuse with background suppression<br>0.4 m diffuse |

### Complementary

|                          |  |
|--------------------------|--|
| Enclosure material       | PBT  |
| Lens material            | PMMA   |
| Maximum sensing distance | 14 m thru beam<br>13.12 ft (4 m) polarised reflex<br>0.33 ft (0.1 m) diffuse with background suppression |

|                           |  |
|---------------------------|--|
|                           | 1.80 ft (0.55 m) diffuse   |
| Output type               | Solid state  |
| Add on output             | With alarm output, 50 mA   |
| Wire insulation material  | PVC  |
| 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 reverse polarity protection                                 |
| Switching capacity in mA  | <= 100 mA overload and short-circuit protection)                         |
| Switching frequency       | <= 250 Hz<br>240 Hz  |
| Maximum voltage drop      | <1.5 V closed state)   |
| Current consumption       | 35 mA no-load  |
| Maximum delay first up    | 100 ms   |
| Maximum delay response    | 2 ms   |
| Maximum delay recovery    | 2 ms   |
| Setting-up                | Self-teaching  |
| Depth                     | 0.79 in (20 mm)  |
| Height                    | 1.77 in (45 mm)  |
| Width                     | 0.47 in (12 mm)  |
| Net weight                | 0.08 lb(US) (0.035 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 IEC 60529<br>IP67 IEC 60529          |

## Packing Units

|                  |                        |
|------------------|------------------------|
| Package 1 Weight | 0.09 lb(US) (0.039 kg) |
| Package 1 Height | 0.420 dm               |
| Package 1 width  | 0.960 dm               |
| Package 1 Length | 0.670 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)<br><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 |
|----------|-----------|