

## Product data sheet

### Characteristics

# XUAJ0515S

photo-electric sensor - XUA - diffuse - Sn 0.05m -  
12..24VDC - M8



### Main

|                               |                             |
|-------------------------------|-----------------------------|
| Range of product              | OsiSense XU                 |
| Series name                   | Application assembly        |
| Electronic sensor type        | Photo-electric sensor       |
| Sensor name                   | XUA                         |
| Sensor design                 | Cylindrical M8              |
| 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 M8, 3 pins |
| Product specific application  | -                           |
| Emission                      | Infrared diffuse            |
| [Sn] nominal sensing distance | 0.16 ft (0.05 m) diffuse    |

### Complementary

|                           |                                          |
|---------------------------|------------------------------------------|
| Enclosure material        | Nickel plated brass                      |
| Lens material             | PMMA                                     |
| Maximum sensing distance  | 0.20 ft (0.06 m)                         |
| Output type               | Solid state                              |
| Add on output             | Without                                  |
| Cable composition         | 3 x 0.14 mm <sup>2</sup>                 |
| Wire insulation material  | PvR                                      |
| Cable outer diameter      | 0.14 in (3.5 mm)                         |
| Status LED                | 1 LED yellow)output state                |
| [Us] rated supply voltage | 12...24 V DC reverse polarity protection |
| Supply voltage limits     | 10...30 V DC                             |

|                          |                                                  |
|--------------------------|--------------------------------------------------|
| Switching capacity in mA | <= 100 mA overload and short-circuit protection) |
| Switching frequency      | <= 1000 Hz                                       |
| Maximum voltage drop     | <1 V closed state)                               |
| Current consumption      | <= 25 mA no-load                                 |
| Maximum delay first up   | 20 ms                                            |
| Maximum delay response   | 0.5 ms                                           |
| Maximum delay recovery   | 0.5 ms                                           |
| Setting-up               | Without sensitivity adjustment                   |
| Diameter                 | 0.31 in (8 mm)                                   |
| Length                   | 1.89 in (48 mm)                                  |
| Net weight               | 1.10 lb(US) (0.5 kg)                             |

## Environment

|                                       |                                         |
|---------------------------------------|-----------------------------------------|
| Product certifications                | CE<br>CULus                             |
| Ambient air temperature for operation | -13...131 °F (-25...55 °C)              |
| Ambient air temperature for storage   | -22...158 °F (-30...70 °C)              |
| Vibration resistance                  | 7 gn +/- 1 mm 10...55 Hz) IEC 60068-2-6 |
| Shock resistance                      | 30 gn 11 ms) IEC 60068-2-27             |
| IP degree of protection               | IP67 IEC 60529<br>IP65 IEC 60529        |

## Packing Units

|                  |                        |
|------------------|------------------------|
| Package 1 Weight | 0.07 lb(US) (0.030 kg) |
| Package 1 Height | 0.360 dm               |
| Package 1 width  | 0.450 dm               |
| Package 1 Length | 1.100 dm               |

## Offer Sustainability

|                            |                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------|
| 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>                                                                               |

## Contractual warranty

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