Product data sheet Characteristics

XUM8APCNM8

photo-electric sensor - XUM - BGS - Sn 0.3m - 12..24VDC - M8



Main

| Range of product | OsiSense XU |
|-------------------------------|---|
| Series name | General purpose single mode |
| Electronic sensor type | Photo-electric sensor |
| Sensor name | XUM |
| Sensor design | Miniature |
| Detection system | Diffuse with background suppression |
| Material | Plastic |
| Type of output signal | Discrete |
| Supply circuit type | DC |
| Wiring technique | 3-wire |
| Discrete output type | PNP |
| Discrete output function | 1 NO or 1 NC programmable |
| Electrical connection | 1 male connector M8, 4 pins |
| Product specific application | - |
| Emission | Red diffuse with background suppression |
| [Sn] nominal sensing distance | 0.98 ft (0.3 m) diffuse with background suppression |
| | |

Complementary

| Complementary | |
|---------------------------|---|
| Enclosure material | PBT |
| Lens material | PC |
| Maximum sensing distance | 0.98 ft (0.3 m) diffuse with background suppression |
| Output type | Solid state |
| Wire insulation material | PVC |
| Status LED | 1 LED yellow)output state 1 LED red)instability |
| [Us] rated supply voltage | 1224 V DC |
| Supply voltage limits | 1030 V DC |
| Switching capacity in mA | <= 100 mA overload and short-circuit protection) |
| Switching frequency | <= 500 Hz |
| Maximum voltage drop | <1.5 V closed state) |
| Current consumption | 35 mA no-load |
| Maximum delay first up | 30 ms |
| Maximum delay response | 1 ms |
| Maximum delay recovery | 1 ms |
| Setting-up | Without sensitivity adjustment |
| Depth | 1.06 in (27 mm) |
| Height | 1.50 in (38 mm) |
| Length | 0.43 in (11 mm) |
| Maximum Width | 0.47 in (12 mm) |
| Net Weight | 0.04 lb(US) (0.02 kg) |
| | |

Environment

| Product certifications | CE | |
|---------------------------------------|--|--|
| | UL | |
| | CSA | |
| Ambient air temperature for operation | -13131 °F (-2555 °C) | |
| Ambient air temperature for storage | -22158 °F (-3070 °C) | |
| Immunity to ambient light | 3000 Lux natural light | |
| | 3000 lux incandescent light | |
| Vibration resistance | 7 gn +/- 1.5 mm 1055 Hz) IEC 60068-2-6 | |
| Shock resistance | 30 gn 11 ms) IEC 60068-2-27 | |
| IP degree of protection | IP67 double insulation IEC 60529 | |
| | IP65 double insulation IEC 60529 | |

Ordering and shipping details

| 22415 - SENSORS, PHOTOELECTRIC, BASIC | |
|---------------------------------------|--|
| DS2 | |
| 00785901121305 | |
| 1 | |
| 0.02 lb(US) (0.01 kg) | |
| Yes | |
| JP | |
| | DS2 00785901121305 1 0.02 lb(US) (0.01 kg) Yes |

Packing Units

| Package 1 Height | 0.150 dm | |
|------------------|----------|--|
| Package 1 width | 1.600 dm | |
| Package 1 Length | 2.000 dm | |

Offer Sustainability

| California proposition 65 | WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |
|----------------------------|---|
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| Mercury free | Yes |
| RoHS exemption information | ₽¥Yes |

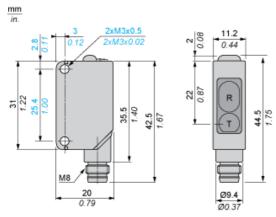
Contractual warranty

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

Product data sheet Dimensions Drawings

XUM8APCNM8

Dimensions

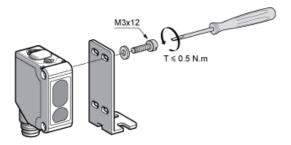


R: Reception T: Transmission

Product data sheet Mounting and Clearance

XUM8APCNM8

Mounting



Product data sheet Connections and Schema

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Wiring Schemes

M8 Connector

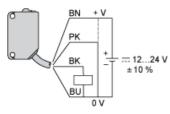


1: (+)

2 : Mode/Input 3 : (-)

3 : (-) 4 : Output

PNP Output



BU: Blue BN: Brown BK: Black PK: Pink

Note :This scheme is represented in "background suppression" mode, cabling of pink (PK) wire to 0 V

Product data sheet **Performance Curves**

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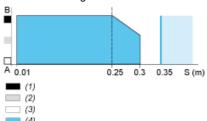
Detection Curves

Variation of Usable Sensing Distance





Maximum Setting



A-B: Object reflection coefficient

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