# XU5M18U1D

photo-electric sensor - XU5 - diffuse - luminescence - Sn 80mm - 12..24VDC - M12

Green Premium Product

Product availability:  Non-Stock - Not normally stocked in distribution facility

## Main

| | |
|---|---|
| Range of product | OsiSense XU |
| Series name | Application packaging |
| Electronic sensor type | Photo-electric sensor |
| Product specific application | Luminescence |
| Sensor name | XU5 |
| Sensor design | M18 |
| Detection system | Diffuse |
| [Sn] nominal sensing distance | 0.00…3.15 In (0…80 mm) in diffuse mode<br>0.79 in (20 mm) Ø 3 x 1 mm for colour mark reading |
| Material | Metal |
| Type of output signal | Discrete |
| Supply circuit type | DC |
| Wiring technique | 3-wire |
| Discrete output type | PNP |
| Discrete output function | 1 NO |
| Electrical connection | 1 male connector M12, 4 pins |
| Emission | Ultra-violet (transmission frequency = 370 nm) |

## Complementary

| | |
|---|---|
| Enclosure material | Nickel plated brass |
| Lens material | PMMA |
| Output type | Solid state |
| Output function governance | Light |
| Add on output | Without |
| Status LED | Output state 1 LED green) |
| [Us] rated supply voltage | 12...24 V DC reverse polarity protection |
| Supply voltage limits | 10…30 V DC |
| Switching capacity in mA | <= 100 mA reverse polarity, overload and short-circuit protection) |
| Switching frequency | <= 1000 Hz |
| Maximum voltage drop | <1.5 V closed state), PNP |
| Current consumption | <= 20 mA no-load |
| Time delay range | 20 ms off-delay activation/deactivation by cabling method |
| Maximum delay first up | 100 ms |
| Maximum delay response | 0.5 ms |
| Maximum delay recovery | 0.5 ms |
| Setting-up | Sensitivity adjustment with potentiometer |
| Diameter | 0.71 in (18 mm) |
| Length | 3.74 in (95 mm) |
| Net weight | 0.17 lb(US) (0.075 kg) |

## Environment

| | |
|---|---|
| Product certifications | CE<br>UL<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 +/- 0.6 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 |

## Ordering and shipping details

| | |
|---|---|
| Category | 22481 - SENSORS, PHOTOELECTRIC |
| Discount Schedule | DS2 |
| GTIN | 00785901258414 |
| Package weight(Lbs) | 0.08 kg (0.18 lb(US)) |
| Returnability | No |
| Country of origin | FR |

## Offer Sustainability

| | |
|---|---|
| Sustainable offer status | Green Premium product |
| REACh Regulation | REACh Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |

## Contractual warranty

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

Life Is On | Schneider Electric

## Dimensions
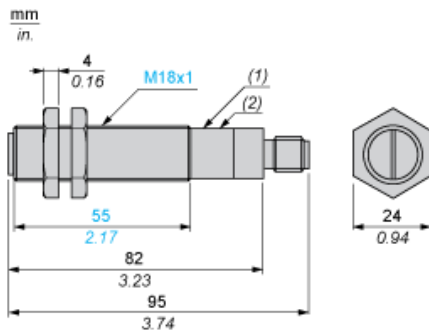


(1)   Potentiometer
(2)   Green LED

## Mounting and Clearance

Fixing nut tightening torque: < 15 N.m

Life Is On | Schneider Electric

## Wiring Schemes

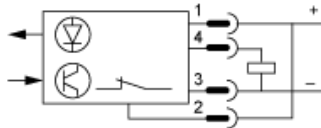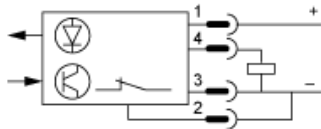### Connector Scheme
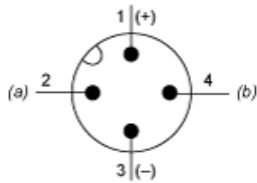


(a)   Time delay: "OFF delay" of output signal: - no time delay: connect contact 2 to (+), - 20 ms time delay: connect contact 2 to (-)
(b)   Output

### PNP Output ( 3-wire Discontinue Current)
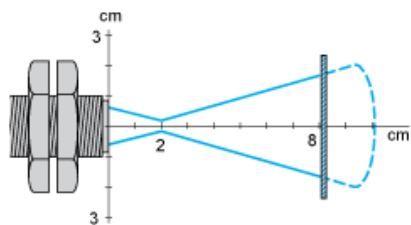
Without output signal time delay
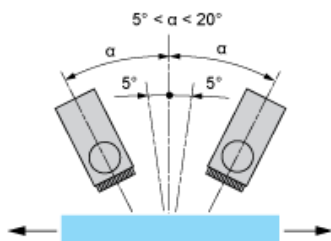


With output signal time delay (20 ms)

## Curves

### Detection Curves



Object 5 x 5 cm, white 90 %
Object 5 x 5 cm, white 90 %

### Vertical Inclination



An angle of 5 to 10° from vertical is recommended for reflective or transparent surfaces Maximum vertical inclination: 20°