

XUAH0515S

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 | PNP |
| Discrete output function | 1 NO |
| Electrical connection | 1 male connector M8, 3 pins |
| Product specific application | - |
| Emission | Infrared diffuse |
| [Sn] nominal sensing distance | 0.05 m diffuse |

Complementary

| | |
|---------------------------|---|
| Enclosure material | Nickel plated brass |
| Lens material | PMMA |
| Maximum sensing distance | 0.06 m |
| Output type | Solid state |
| Add on output | Without |
| Cable composition | 3 x 0.14 mm ² |
| Wire insulation material | PvR |
| Cable outer diameter | 3.5 mm |
| Status LED | 1 LED (yellow) for output state |
| [Us] rated supply voltage | 12...24 V DC with 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 |
| Voltage drop | <= 1 V (closed state) |
| Current consumption | <= 25 mA (no-load) |
| Delay first up | <= 20 ms |
| Delay response | <= 0.5 ms |
| Delay recovery | <= 0.5 ms |
| Setting-up | Without sensitivity adjustment |
| Diameter | 8 mm |
| Length | 48 mm |
| Product weight | 0.5 kg |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Environment

| | |
|---------------------------------------|---|
| Product certifications | CULus CE |
| Ambient air temperature for operation | -25...55 °C |
| Ambient air temperature for storage | -30...70 °C |
| Vibration resistance | 7 gn, amplitude = +/- 1 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 | IP65 conforming to IEC 60529 IP67 conforming to IEC 60529 |

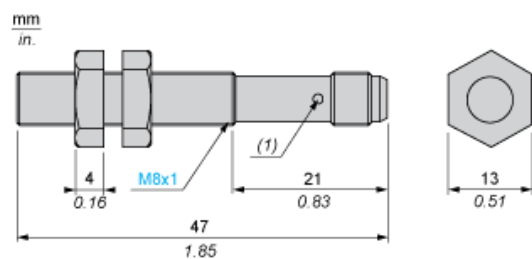
Offer Sustainability

| | |
|------------------------|--|
| RoHS (date code: YYWW) | Compliant - since 0732 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |

Contractual warranty

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

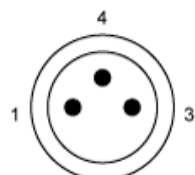
Dimensions



(1) LED, 4 viewing ports at 90°
Note Fixing nut tightening torque : <2N.m

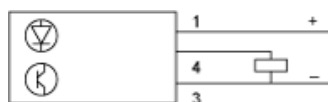
Wiring Schemes

M8 Connector

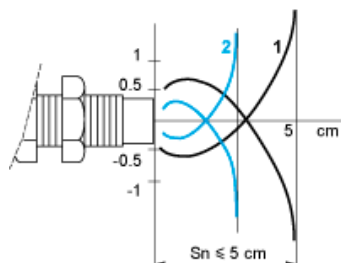


- 1 : (+)
- 3 : (-)
- 4 : OUT or test

PNP

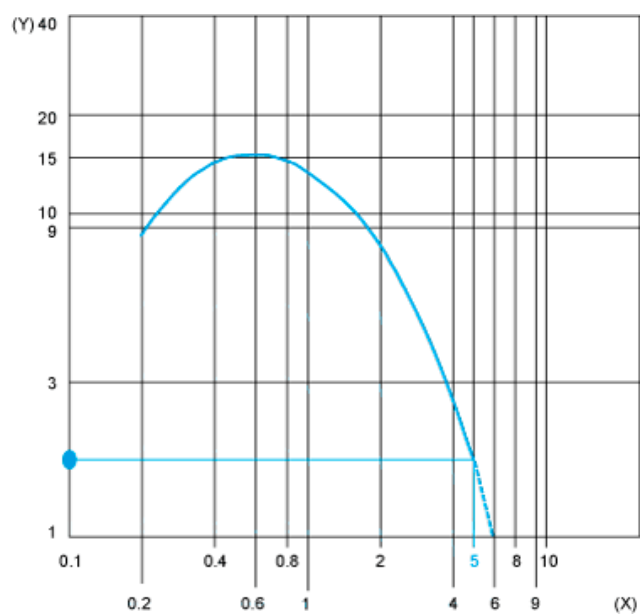


Detection Curves

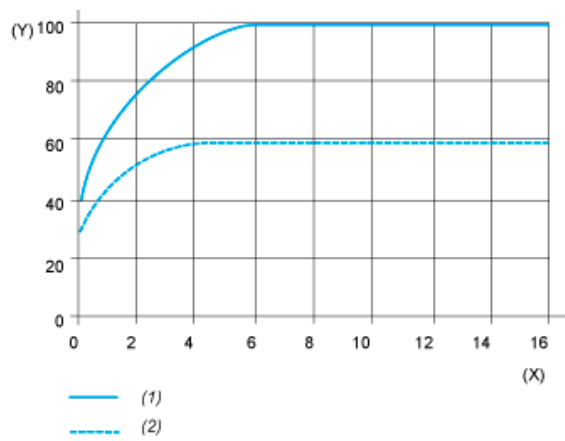


1 : White 90%
2 : Grey 18%
Object 5 x 5 cm

Excess Gain Curves (Ambient temperature: $\pm 25^{\circ}\text{C}$)



(Y) Gain
(X) Distance (m)
Object 5 x 5 cm, White 90%



(1) White

(2) Grey

(Y) Variation of sensing distance S_n

(X) Side of square object (cm)

Detection differential (H) when object approaches from the front: $H \leq 25\%$ of S_n