# XU2S18PP340WL5

security light curtain XU2-S - detection of body - 750..1200 mm - 12..24 V
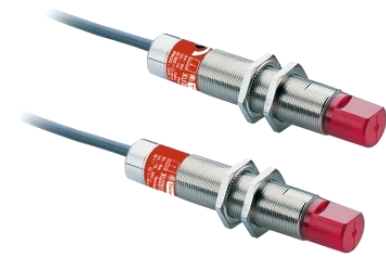
## Main

| | |
|---|---|
| Range of product | Preventa Safety detection |
| Product or component type | Safety thru-beam pair photo-electric sensors |
| Device short name | XU2S |
| Output type | 1 safety outputs OSSD PNP |
| [Sn] nominal sensing distance | 8 m |

## Complementary

| | |
|---|---|
| Detection system | Transmitter-receiver system |
| [Us] rated supply voltage | 12...24 V DC (10...30 V) reverse polarity protection |
| Current consumption | <= 35 mA no-load |
| Voltage drop | <= 1.5 V closed state |
| Switching capacity in mA | <= 100 mA (overload and short-circuit protection) |
| Switching frequency | 500 Hz maximum |
| Electrical connection | Pre-cabled |
| Line of sight type | 90° to case axis |
| Delay response | <= 1 ms |
| Delay recovery | <= 1 ms |
| Cable outer diameter | 5 mm |
| Cable length | 5 m |
| Cable composition | 3 x 0.34 mm² for transmitter<br>4 x 0.34 mm² for receiver |
| Tightening torque | 24 N.m fixing nut |
| Function available | Built-in muting function<br>Light or dark programmable switching |
| Marking | CE |
| Material | Case : nickel plated brass<br>Lenses : PMMA (polymethyl methacrylate) |
| Product weight | 0.485 kg |

## Environment

| | |
|---|---|
| standards | EN/IEC 60825-1<br>EN/IEC 61496-1<br>EN/IEC 61496-2 |
| safety level | Type 2 conforming to IEC 61496-1-2<br>Can reach PL = c conforming to EN/ISO 13849-1 (associated with module XPSCM correctly wired)<br>Can reach category 2 conforming to EN/ISO 13849-1 (associated with module XPSCM correctly wired) |
| ambient air temperature for operation | -25...55 °C |
| safety reliability data | PFH = 4.6E-7 1/h conforming to IEC 61508<br>PFH = 5.5E-7 1/h conforming to IEC 61508 (with muting function) |
| ambient air temperature for storage | -40...70 °C |
| IP degree of protection | IP67 conforming to EN/IEC 60529 |
| shock resistance | 30 gn (3 axes : 3 times) conforming to EN/IEC 60068-2-27 |
| vibration resistance | 7 gn (f = 10...55 Hz) conforming to EN/IEC 60068-2-6 |

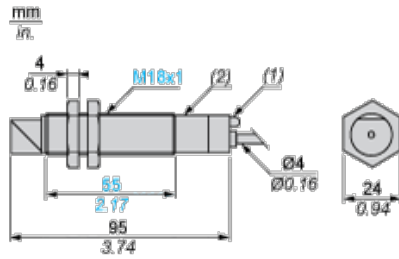## Offer Sustainability

| | |
|---|---|
| Sustainable offer status | Not Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 1402 - Schneider Electric declaration of conformity |
| REACh | Reference not containing SVHC above the threshold |

### Contractual warranty

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

## Dimensions

**Receiver**



**(1)** LED

**(2)** Potentiometer

**Transmitter**
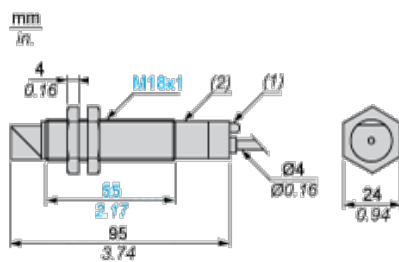


**(1)** LED

**(2)** Potentiometer

## Wiring Schemes (3-wire DC)

**Transmitter**
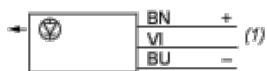


**BU :** Blue

**BN :** Brown

**VI :** Violet

**(1)** Test

**Beam Break Test**

Beam Made
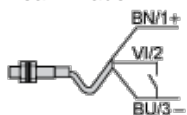


**BU :** Blue

**BN :** Brown

**VI :** Violet

Beam Broken
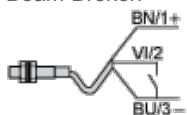


**BU :** Blue

**BN :** Brown

**VI :** Violet

### Receiver

**Light switching** (no object present). PNP output
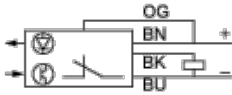


**BN :** Brown

**BU :** Blue

**BK :** Black

**OG :** Orange

**Dark switching** (no object present). PNP output
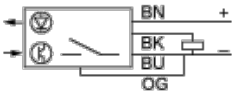


**BN :** Brown

**BU :** Blue

**BK :** Black

**OG :** Orange

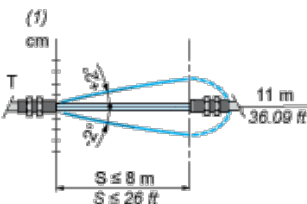## Connecting to a Safety Module



**1 :** Click on Download & Documents

**2 :** Click on System user guide

To have all connection schematics concerning our safety module, select "download and document" and download the file "Connecting to a monitoring device XU2S"
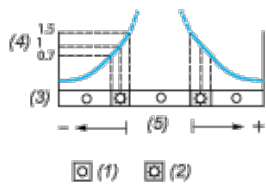
## Curves

### Infrared Detection Curve

**(1)**    Ø of beam

**Verification of Correct Operation**



**(1)**    LED off

**(2)**    LED on

**(3)**    Red LED

**(4)**    Signal level

**(5)**    Optimum alignment