



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 | 1 male connector M12 4 pins |
| Line of sight type | Along case axis |
| Delay response | <= 1 ms |
| Delay recovery | <= 1 ms |
| Tightening torque | 2 N.m connector 24 N.m fixing nut |
| Function available | Light or dark programmable switching Built-in muting function |
| Marking | CE |
| Material | Lenses : PMMA (polymethyl methacrylate) Case : nickel plated brass |
| Product weight | 0.155 kg |

Environment

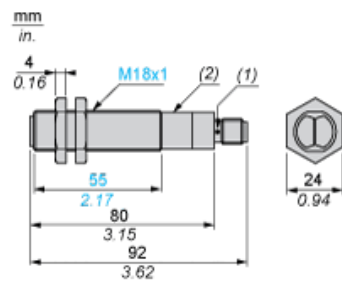
| | |
|---------------------------------------|---|
| Standards | EN/IEC 60825-1 EN/IEC 61496-1 EN/IEC 61496-2 |
| Safety level | Type 2 conforming to IEC 61496-1-2 Can reach category 2 conforming to EN/ISO 13849-1 (associated with module XPSCM correctly wired) Can reach PL = c conforming to EN/ISO 13849-1 (associated with module XP-SCM correctly wired) |
| Ambient air temperature for operation | -25...55 °C |
| Safety reliability data | PFH = 4.6E-7 1/h conforming to IEC 61508 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 | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 1005 - Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product environmental profile | Available Download Product Environmental |
| Product end of life instructions | Available Download End Of Life Manual |

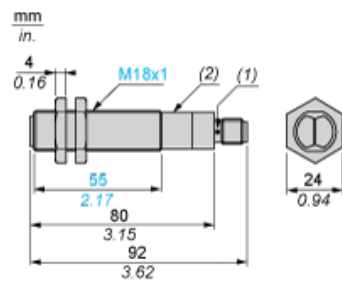
Dimensions

Receiver



- (1) LED
- (2) Potentiometer

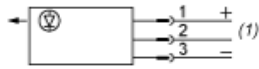
Transmitter



- (1) LED
- (2) Potentiometer

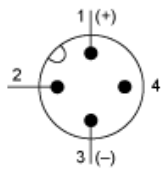
Wiring Schemes (3-wire DC)

Transmitter



(1) Test

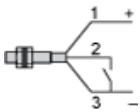
Connector Pin View



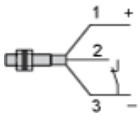
- (1) (+)
- (2) Test
- (3) (-)

Beam Break Test

Beam Made

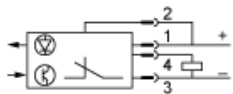


Beam Broken

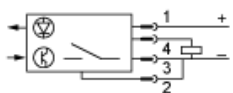


Receiver

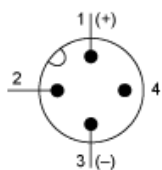
Light switching (no object present). PNP output



Dark switching (no object present). PNP output



Connector Pin View



- (1) (+)
- (2) Programming
- (3) (-)
- (4) Output

Connecting to a Safety Module

Discover
XU2S18PP340D by

- Characteristics
- Dimensions Drawings
- Connections and Schema
- Performance Curves
- **Download & Documents**

①

Download & Documents 1 to 8 of 8

CAD

| | | |
|---|-------------------|--------|
| Preventa - Photo-electric sensors - Thru beam, pair - Ref. XU2S18PP340D | SILENT 2015-07-21 | (Se ▼) |
| Preventa - Photo-electric sensors - Thru beam, pair - Ref. XU2S18PP340D | SILENT 2009-10-23 | (Se ▼) |

Instruction sheet

| | | |
|---|--------------------|-------|
| XU2S18... Cylindrical photo-electric sensor design 18 | English 2015-07-21 | pdf ▼ |
|---|--------------------|-------|

Product environmental

| | | |
|---|--------------------|-------|
| XUB... XU1... to XU9... Photoelectric Sensor, Product Environmental profile | English 2012-03-19 | pdf ▼ |
|---|--------------------|-------|

End of life manual

| | | |
|---|--------------------|-------|
| XUB... and XU1... to XU9... Photoelectric Sensors, Product End-of-life Instructions | English 2012-02-20 | pdf ▼ |
|---|--------------------|-------|

System user guide

| | | |
|--|--------------------|-------|
| Connecting to a monitoring device XU2S | English 2015-06-08 | pdf ▼ |
|--|--------------------|-------|

Catalog

| | | |
|-------------------------------------|--------------------|-------|
| Safety light curtains Preventa XUSL | English 2015-05-18 | pdf ▼ |
|-------------------------------------|--------------------|-------|

Image of product

| | | |
|-----------------------------|-------------------|--------|
| Security light curtain XU2S | SILENT 2015-07-21 | (Se ▼) |
|-----------------------------|-------------------|--------|

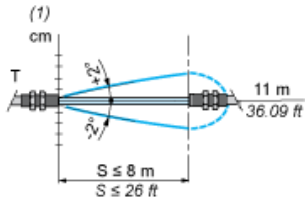
②

- 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"

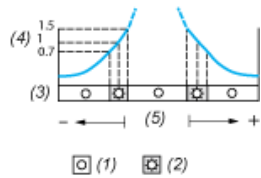
Curves

Infrared Detection Curve



(1) \varnothing of beam

Verification of Correct Operation



- (1) LED off
- (2) LED on
- (3) Red LED
- (4) Signal level
- (5) Optimum alignment