

Safety thru beam pair photo electric sensors,  
Preventa Safety detection, security light curtain  
XU2 S, of body, 750...1200 mm, 12...24 V



Main

Range of product	Telemecanique Safety light curtains XUSL
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
Maximum voltage drop	<1.5 V (closed)
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	90° to case axis
Maximum delay response	1 ms
Maximum delay recovery	1 ms
Tightening torque	24 N.M fixing nut 2 N.m connector
Function available	Built-in muting function Light or dark programmable switching
Marking	CE
Material	Nickel plated brass: case PMMA (polymethyl methacrylate): lenses
Net weight	0.155 kg

Environment

Standards	EN/IEC 61496-2 EN/IEC 61496-1 EN/IEC 60825-1
Safety level	Can reach PL = c associated with module XPSCM correctly wired conforming to EN/ISO 13849-1 Can reach category 2 associated with module XPSCM correctly wired conforming to EN/ISO 13849-1 Type 2 conforming to IEC 61496-1-2
Ambient air temperature for operation	-25...55 °C
Safety reliability data	PFH = 5.5E-7 1/h conforming to IEC 61508 with muting function PFH = 4.6E-7 1/h conforming to IEC 61508
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

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.2 cm
Package 1 Width	9.5 cm
Package 1 Length	13.0 cm
Package 1 Weight	165.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	4.077 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Diisobutyl 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
For all Reach Rohs enquiries contact us at	<a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>

## Contractual warranty

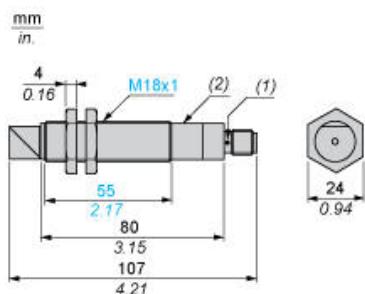
Warranty	18 months
----------	-----------

---

## Dimensions

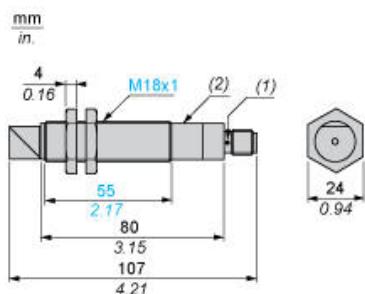
---

### Receiver



(1) LED  
(2) Potentiometer

### Transmitter



(1) LED  
(2) Potentiometer

---

### Wiring Schemes (3-wire DC)

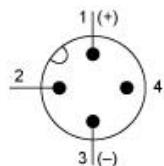
---

#### Transmitter



(1) Test

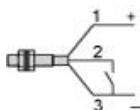
#### Connector Pin View



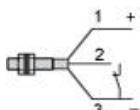
(1) (+)  
(2) Test  
(3) (-)

#### Beam Break Test

##### Beam Made

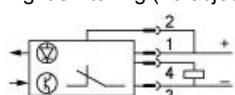


##### Beam Broken

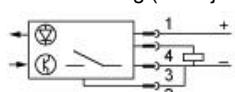


#### Receiver

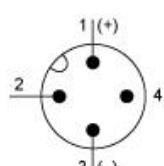
Light switching (no object present). PNP output



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**

**Download & Documents 1 to 8 of 8**

**CAD**

Preventa - Photo-electric sensors - Thru beam, SILENT 2015-07-21 [Se ▾]  
pair - Ref XU2S18PP340D

Preventa - Photo-electric sensors - Thru beam, SILENT 2009-10-23 [Se ▾]  
pair - Ref XU2S18PP340D

**Instruction sheet**

XU2S18 - Cylindrical photo-electric sensor English 2015-07-21 pdf ▾

**Product environmental**

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

**End of life manual**

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

**System user guide**

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

**Catalog**

Safety light curtains Preventa XUSL English 2015-06-18 pdf ▾

**Image of product**

Security light curtain XU2S SILENT 2015-07-21 [Se ▾]

①

②

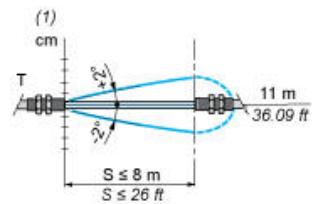
1 : Click on Download & Documents

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"

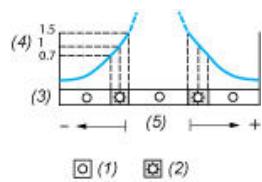
## Curves

### Infrared Detection Curve



(1) Ø of beam

### Verification of Correct Operation



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