

# Product data sheet

## Characteristics

# XU2S18PP340WD

## 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	26.25 ft (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	212.42 Lbf.In (24 N.m) fixing nut 17.70 lbf.in (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	0.34 lb(US) (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 EN/ISO 13849-1 Can reach category 2 associated with module XPSCM correctly wired EN/ISO 13849-1 Type 2 IEC 61496-1-2
Ambient air temperature for operation	-13...131 °F (-25...55 °C)
Safety reliability data	PFH = 5.5E-7 1/h with muting function IEC 61508 PFH = 4.6E-7 1/h IEC 61508
Ambient air temperature for storage	-40...158 °F (-40...70 °C)
IP degree of protection	IP67 EN/IEC 60529
Shock resistance	30 gn 3 axes : 3 times EN/IEC 60068-2-27
Vibration resistance	7 gn 10...55 Hz)EN/IEC 60068-2-6

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.

## Ordering and shipping details

Category	22477 - SAFETY MODULES (PREVENTA)
Discount Schedule	SAF2
GTIN	00785901630036
Nbr. of units in pkg.	1
Package weight(Lbs)	0.35 lb(US) (0.16 kg)
Returnability	No
Country of origin	FR

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.65 in (4.2 cm)
Package 1 width	3.74 in (9.5 cm)
Package 1 Length	5.12 in (13 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Weight	8.99 lb(US) (4.077 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

## Offer Sustainability

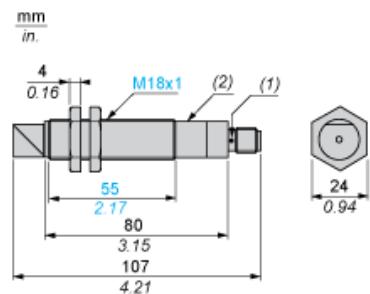
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Diisobutyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	 <a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	 Yes
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>
Circularity Profile	 <a href="#">End Of Life Information</a>

## Contractual warranty

Warranty	18 months
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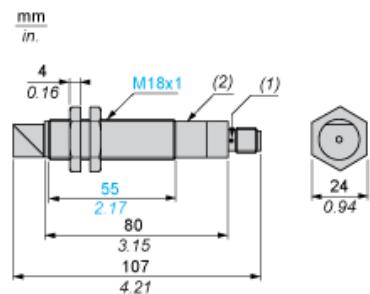
## Dimensions

### Receiver



(1) LED  
(2) Potentiometer

### Transmitter



(1) LED  
(2) Potentiometer

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### Wiring Schemes (3-wire DC)

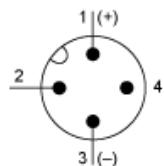
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#### Transmitter



(1) Test

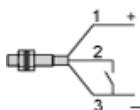
#### Connector Pin View



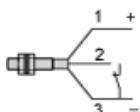
(1) (+)  
(2) Test  
(3) (-)

#### Beam Break Test

##### Beam Made

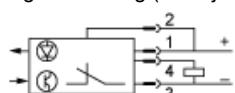


##### Beam Broken

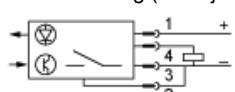


#### Receiver

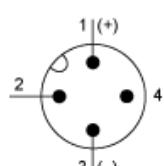
Light switching (no object present). PNP output



Dark switching (no object present). PNP output



#### Connector Pin View



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

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### Connecting to a Safety Module

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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, 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 ▾]

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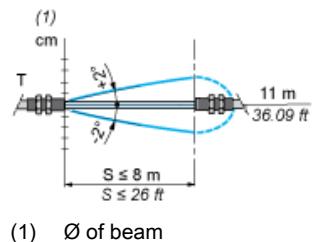
1 : Click on Download & Documents

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"

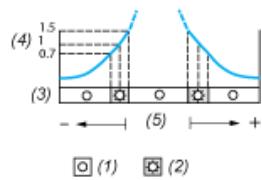
## Curves

### 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