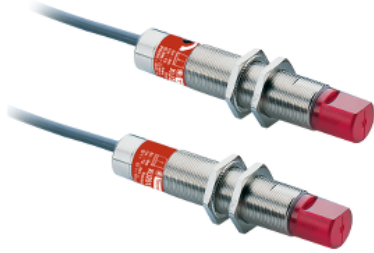


# Product data sheet

Specifications



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

XU2S18PP340WL5

## 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	Pre-cabled
Line of sight type	90° to case axis
Maximum delay response	1 ms
Maximum delay recovery	1 ms
Cable outer diameter	5 mm
Cable length	5 m
Cable composition	3 x 0.34 mm <sup>2</sup> for transmitter 4 x 0.34 mm <sup>2</sup> for receiver
Tightening torque	24 N.m fixing nut
Function available	Built-in muting function Light or dark programmable switching
Marking	CE
Material	Nickel plated brass: case PMMA (polymethyl methacrylate): lenses
Net weight	0.485 kg

## Environment

Standards	EN/IEC 60825-1 EN/IEC 61496-2
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<b>Safety level</b>	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
<b>Ambient air temperature for operation</b>	-25...55 °C
<b>Safety reliability data</b>	PFH = 5.5E-7 1/h conforming to IEC 61508 with muting function PFH = 4.6E-7 1/h conforming to IEC 61508
<b>Ambient air temperature for storage</b>	-40...70 °C
<b>IP degree of protection</b>	IP67 conforming to EN/IEC 60529
<b>Shock resistance</b>	30 gn 3 axes : 3 times conforming to EN/IEC 60068-2-27
<b>Vibration resistance</b>	7 gn (f= 10...55 Hz) conforming to EN/IEC 60068-2-6

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Weight</b>	435.0 g
<b>Package 1 Height</b>	6.6 cm
<b>Package 1 width</b>	9.4 cm
<b>Package 1 Length</b>	13 cm
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	14
<b>Package 2 Weight</b>	6.4 kg
<b>Package 2 Height</b>	15 cm
<b>Package 2 width</b>	30 cm
<b>Package 2 Length</b>	40 cm

## Offer Sustainability

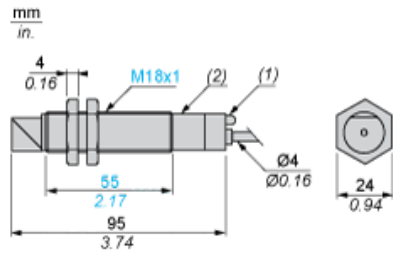
<b>Sustainable offer status</b>	Green Premium product
<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>EU RoHS Directive</b>	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
<b>Mercury free</b>	Yes
<b>RoHS exemption information</b>	<a href="#">Yes</a>
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	<a href="#">End of Life Information</a>
<b>California proposition 65</b>	WARNING: This product can expose you to chemicals including: Diisononyl 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>

## Contractual warranty

<b>Warranty</b>	18 months
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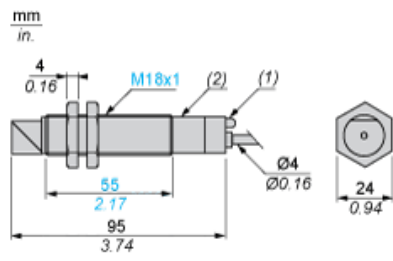
Dimensions

Receiver



- (1) LED
- (2) Potentiometer

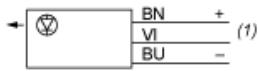
Transmitter



- (1) LED
- (2) Potentiometer

Wiring Schemes (3-wire DC)

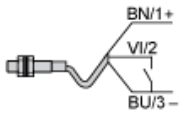
Transmitter



BU : Blue  
BN : Brown  
VI : Violet  
(1) Test

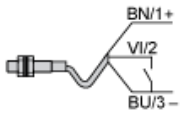
Beam Break Test

Beam Made



BU : Blue  
BN : Brown  
VI : Violet

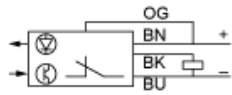
Beam Broken



BU : Blue  
BN : Brown  
VI : Violet

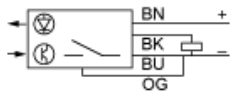
Receiver

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

The screenshot shows a web interface for product data. On the left, a sidebar titled "Discover XU2S18PP340D by" lists categories: Characteristics, Dimensions Drawings, Connections and Schema, Performance Curves, and Download & Documents. The "Download & Documents" link is highlighted with a red box and a circled '1' below it. A vertical line connects this link to the main content area. The main content area is titled "Download & Documents 1 to 8 of 8" and lists various documents. The "System user guide" section is highlighted with a red box and a circled '2' below it. A vertical line connects this section to the "Connecting to a monitoring device XU2S" document entry.

Download & Documents 1 to 8 of 8			
<b>CAD</b>			
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 ▼)
<b>Instruction sheet</b>			
XU2S18... Cylindrical photo-electric sensor design 18	English	2015-07-21	pdf ▼
<b>Product environmental</b>			
XUB... XU1... to XU9... Photoelectric Sensor, Product Environmental profile	English	2012-03-19	pdf ▼
<b>End of life manual</b>			
XUB... and XU1... to XU9... Photoelectric Sensors, Product End-of-life Instructions	English	2012-02-20	pdf ▼
<b>System user guide</b>			
Connecting to a monitoring device XU2S	English	2015-06-08	pdf ▼
<b>Catalog</b>			
Safety light curtains Preventa XUSL	English	2015-05-18	pdf ▼
<b>Image of product</b>			
Security light curtain XU2S	SILENT	2015-07-21	(Se ▼)

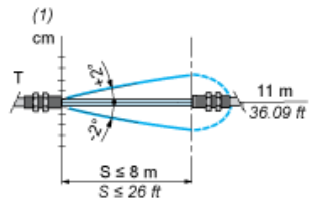
- 1 : Click on Download & Documents
- 2 : Click on System user guide

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

**Curves**

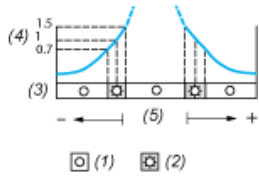
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**Infrared Detection Curve**



(1) Ø of beam

**Verification of Correct Operation**



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