

# XU2S18PP340L5

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



Product availability: Non-Stock - Not normally stocked in distribution facility

Price\*: 230.00 USD



## 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 | 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     | Pre-cabled  |
| Line of sight type        | Along case axis   |
| Maximum delay response    | 1 Ms  |
| Maximum delay recovery    | 1 Ms  |
| Cable outer diameter      | 0.20 In (5 mm)  |
| Cable length              | 16.40 Ft (5 m)  |
| Cable composition         | 3 x 0.34 mm <sup>2</sup> transmitter<br>4 x 0.34 mm <sup>2</sup> receiver |
| Tightening torque         | 212.42 Lbf.In (24 N.m) fixing nut   |
| Function available        | Built-in muting function<br>Light or dark programmable switching          |
| Marking                   | CE  |
| Material                  | Nickel plated brass case<br>PMMA (polymethyl methacrylate) lenses         |
| Net weight                | 1.07 Lb(US) (0.485 kg)  |

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | EN/IEC 60825-1<br>EN/IEC 61496-2<br>EN/IEC 61496-1   |
| Safety level                          | Can reach PL = c associated with module XPSCM correctly wired EN/ISO 13849-1<br>Can reach category 2 associated with module XPSCM correctly-wired EN/ISO 13849-1<br>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<br>PFH = 4.6E-7 1/h IEC 61508  |
| Ambient air temperature for storage   | -40...158 °F (-40...70 °C)   |
| IP degree of protection               | IP67 conforming to 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   |

## Ordering and shipping details

|                       |                                   |
|-----------------------|-----------------------------------|
| Category              | 22477 - SAFETY MODULES (PREVENTA) |
| Discount Schedule     | SAF2                              |
| GTIN                  | 03389110907223                    |
| Nbr. of units in pkg. | 1                                 |
| Package weight(Lbs)   | 15.24 Oz (432 g)                  |
| Returnability         | No                                |
| Country of origin     | FR                                |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Package 1 Height             | 2.64 In (6.7 cm)        |
| Package 1 width              | 3.74 In (9.5 cm)        |
| Package 1 Length             | 5.20 In (13.2 cm)       |
| Unit Type of Package 2       | S03                     |
| Number of Units in Package 2 | 22                      |
| Package 2 Weight             | 22.07 Lb(US) (10.01 kg) |
| Package 2 Height             | 11.81 In (30 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: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Diisodecyl 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 | <a href="#">Yes</a>  |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>  |
| Circularity Profile        | <a href="#">End Of Life Information</a>  |

## Contractual warranty

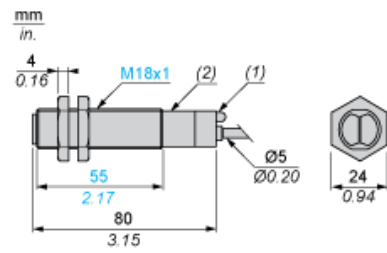
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|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

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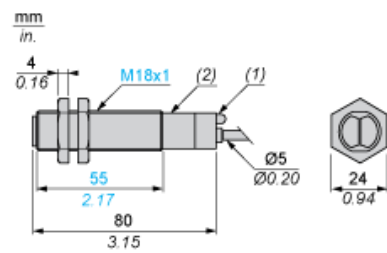
Dimensions

Receiver



- (1) LED
- (2) Potentiometer

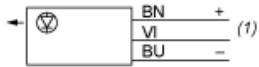
Transmitter



- (1) LED
- (2) Potentiometer

Wiring Schemes (3-wire DC)

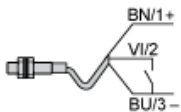
Transmitter



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

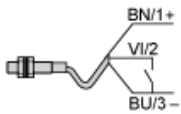
Beam Break Test

Beam Made



BU : Blue  
BN : Brown  
VI : Violet

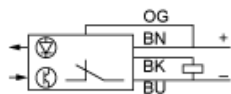
Beam Broken



BU : Blue  
BN : Brown  
VI : Violet

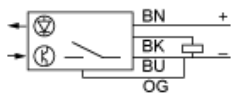
Receiver

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

- 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, 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 ▼) |
|-----------------------------|-------------------|--------|

①

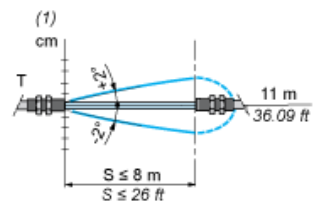
②

- 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"

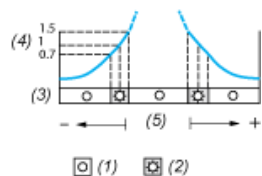
Curves

Infrared Detection Curve



(1)  $\emptyset$  of beam

Verification of Correct Operation



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

Product Life Status : **Commercialised**