



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 Weight	165 g
Package 1 Height	4.2 cm
Package 1 width	9.5 cm
Package 1 Length	13 cm
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Weight	4.077 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

Offer Sustainability

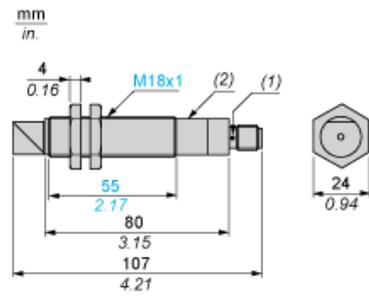
Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information

Contractual warranty

Warranty	18 months
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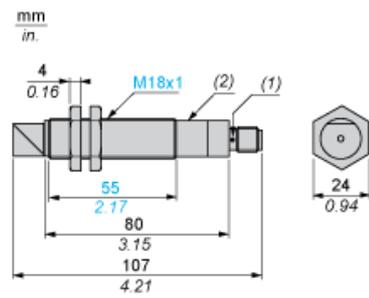
Dimensions

Receiver



- (1) LED
- (2) Potentiometer

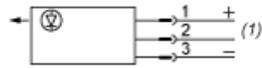
Transmitter



- (1) LED
- (2) Potentiometer

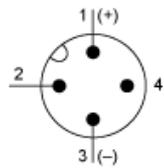
Wiring Schemes (3-wire DC)

Transmitter



(1) Test

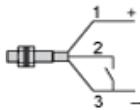
Connector Pin View



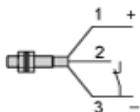
(1) (+)
(2) Test
(3) (-)

Beam Break Test

Beam Made

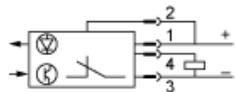


Beam Broken

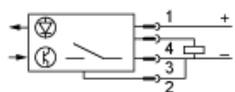


Receiver

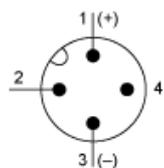
Light switching (no object present). PNP output



Dark switching (no object present). PNP output



Connector Pin View



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

Connecting to a Safety Module

The screenshot shows a product page for 'XU2S18PP340D'. On the left, under 'Discover XU2S18PP340D by', there is a list of links: 'Characteristics', 'Dimensions Drawings', 'Connections and Schema', 'Performance Curves', and 'Download & Documents'. A red box highlights 'Download & Documents', with a line and a circled '1' pointing to it. On the right, the 'Download & Documents 1 to 8 of 8' section is shown. It contains several categories: 'CAD', 'Instruction sheet', 'Product environmental', 'End of life manual', 'System user guide', 'Catalog', and 'Image of product'. The 'System user guide' category is highlighted with a red box, and a line with a circled '2' points to the entry 'Connecting to a monitoring device XU2S'.

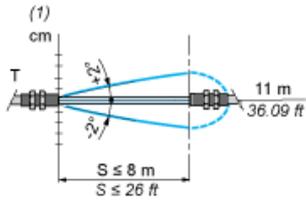
Category	Document Title	Language	Date	Action
CAD	Preventa - Photo-electric sensors - Thru beam, pair - Ref. XU2S18PP340D	SILENT	2015-07-21	(Se ▼)
	Preventa - Photo-electric sensors - Thru beam, pair - Ref. XU2S18PP340D	SILENT	2009-10-23	(Se ▼)
Instruction sheet	XU2S18... Cylindrical photo-electric sensor 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 : 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"

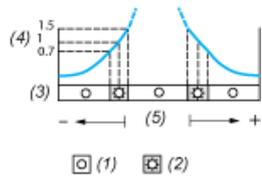
Curves

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