

# XU2S18PP340L5

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	Pre-cabled
Line of sight type	Along 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	IEC 60825-1 IEC 61496-2 IEC 61496-1
Safety level	Can reach PL = c associated with module XPSCM correctly wired conforming to ISO 13849-1 Can reach category 2 associated with module XPSCM correctly wired conforming to 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 IEC 60529

Shock resistance	30 gn 3 axes : 3 times conforming to IEC 60068-2-27
Vibration resistance	7 gn (f= 10...55 Hz) conforming to IEC 60068-2-6

### Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.7 cm
Package 1 Width	9.5 cm
Package 1 Length	13.2 cm
Package 1 Weight	432.0 g
Unit Type of Package 2	S03
Number of Units in Package 2	22
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	10.01 kg

### Offer Sustainability

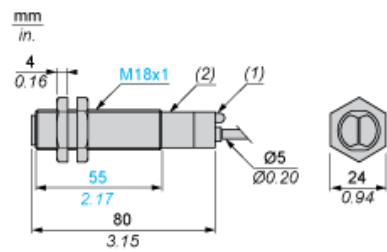
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to 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
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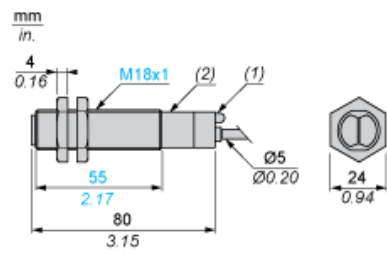
Dimensions

Receiver



- (1) LED
- (2) Potentiometer

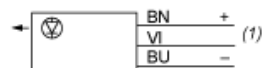
Transmitter



- (1) LED
- (2) Potentiometer

## Wiring Schemes (3-wire DC)

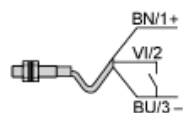
### Transmitter



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

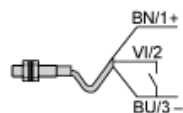
### Beam Break Test

Beam Made



BU : Blue  
BN : Brown  
VI : Violet

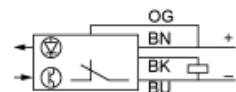
Beam Broken



BU : Blue  
BN : Brown  
VI : Violet

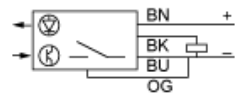
### Receiver

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

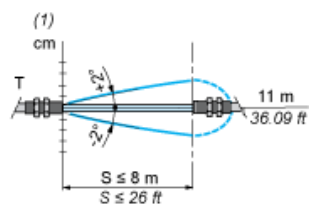


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Curves

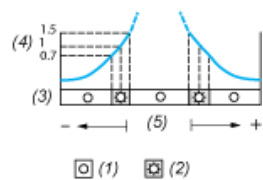
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Infrared Detection Curve



(1) Ø of beam

Verification of Correct Operation



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