

XU2S18PP340D

Safety thru beam pair photo electric sensors,
Preventa Safety detection, security light curtain
XU2 S, of body, Sn 8 m, 12...24 VDC, M12



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	Along 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	IEC 61496-1 IEC 61496-2 IEC 60825-1
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	4.2 cm
Package 1 Width	9.6 cm
Package 1 Length	13.4 cm
Package 1 Weight	162.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	4.019 kg

Offer Sustainability

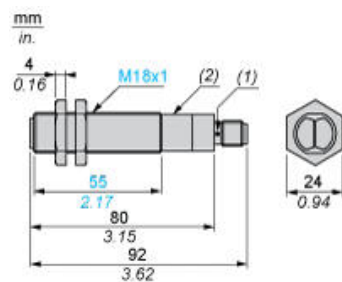
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

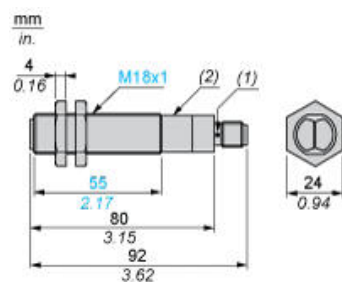
Warranty	18 months
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Dimensions

Receiver

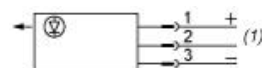


Transmitter



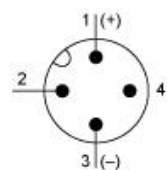
Wiring Schemes (3-wire DC)

Transmitter



(1) Test

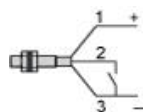
Connector Pin View



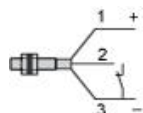
(1) (+)
(2) Test
(3) (-)

Beam Break Test

Beam Made

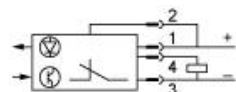


Beam Broken

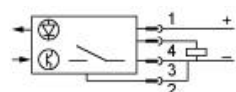


Receiver

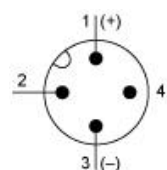
Light switching (no object present). PNP output



Dark switching (no object present). PNP output

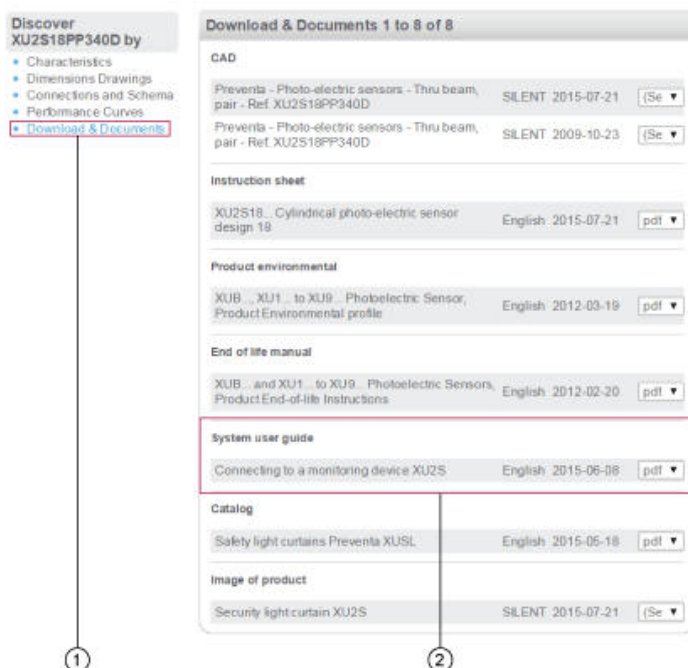


Connector Pin View



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

Connecting to a Safety Module

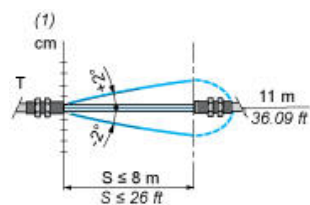


- 1 : Click on Download & Documents
- 2 : Click on System user guide

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

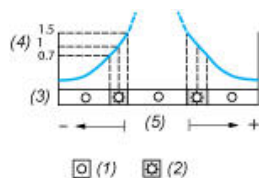
Curves

Infrared Detection Curve



(1) Ø of beam

Verification of Correct Operation



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