Product data sheet
Characteristics

XU2S18PP340D
security light curtain XU2-S - detection of body - Sn 8m - 12..24 VDC - M12

Main

Range of product	Preventa Safety detection
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
Voltage drop	<= 1.5 V closed state
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
Delay response	<= 1 ms
Delay recovery	<= 1 ms
Tightening torque	2 N.m connector 24 N.m fixing nut
Function available	Light or dark programmable switching Built-in muting function
Marking	CE
Material	Lenses : PMMA (polymethyl methacrylate) Case : nickel plated brass
Product weight	0.155 kg

Environment

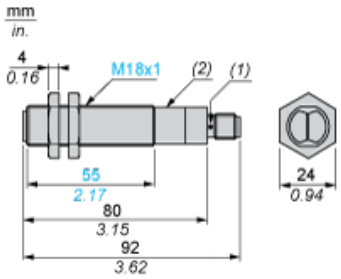
Standards	EN/IEC 60825-1 EN/IEC 61496-1 EN/IEC 61496-2
Safety level	Type 2 conforming to IEC 61496-1-2 Can reach category 2 conforming to EN/ISO 13849-1 (associated with module XPSCM correctly wired) Can reach PL = c conforming to EN/ISO 13849-1 (associated with module XP-SCM correctly wired)
Ambient air temperature for operation	-25...55 °C
Safety reliability data	PFH = 4.6E-7 1/h conforming to IEC 61508 PFH = 5.5E-7 1/h conforming to IEC 61508 (with muting function)
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

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1005 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available Download Product Environmental
Product end of life instructions	Available Download End Of Life Manual

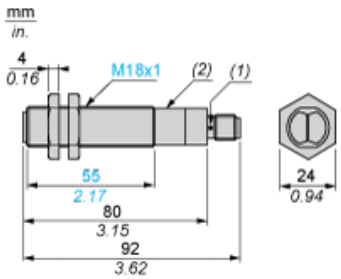
Dimensions

Receiver



(1) LED
(2) Potentiometer

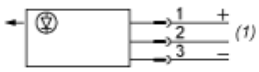
Transmitter



(1) LED
(2) Potentiometer

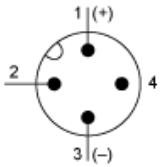
Wiring Schemes (3-wire DC)

Transmitter



(1) Test

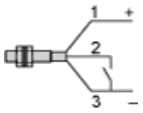
Connector Pin View



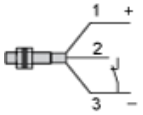
(1) (+)
(2) Test
(3) (-)

Beam Break Test

Beam Made

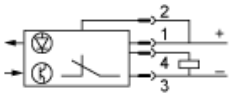


Beam Broken

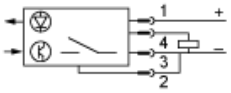


Receiver

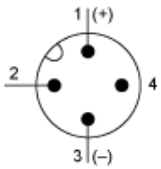
Light switching (no object present). PNP output



Dark switching (no object present). PNP output

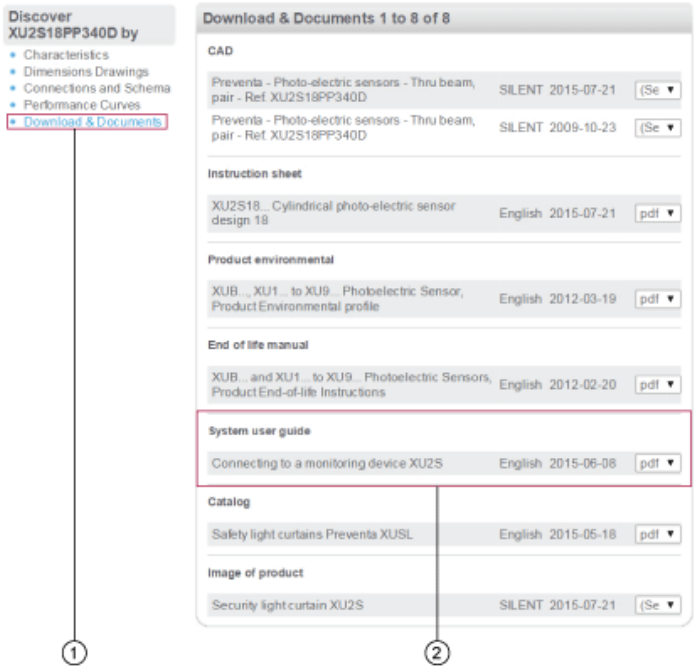


Connector Pin View



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

Connecting to a Safety Module

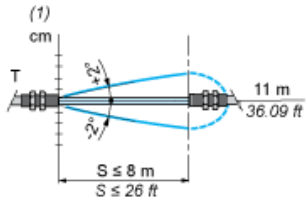


1 : Click on Download & Documents
2 : Click on System user guide

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

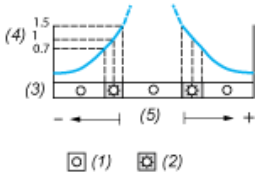
Curves

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