Product datasheet
Characteristics

XU2S18PP340L5
security light curtain XU2-S - detection of body - 750..1200 mm - 12..24 V

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	Pre-cabled
Line of sight type	Along case axis
Delay response	<= 1 ms
Delay recovery	<= 1 ms
Cable outer diameter	5 mm
Cable length	5 m
Cable composition	3 x 0.34 mm² for transmitter 4 x 0.34 mm² for receiver
Tightening torque	24 N.m fixing nut
Function available	Built-in muting function Light or dark programmable switching
Marking	CE
Material	Case : nickel plated brass Lenses : PMMA (polymethyl methacrylate)
Product weight	0.485 kg

Environment

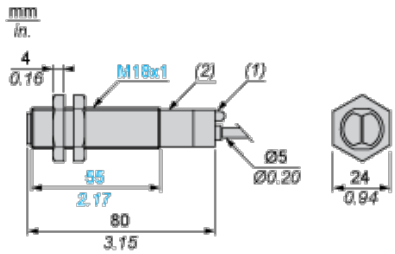
standards	EN/IEC 60825-1 EN/IEC 61496-1 EN/IEC 61496-2
safety level	Type 2 conforming to IEC 61496-1-2 Can reach PL = c conforming to EN/ISO 13849-1 (associated with module XPSCM correctly wired) Can reach category 2 conforming to EN/ISO 13849-1 (associated with module XPSCM correctly wired)
ambient 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	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 1005 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold

Dimensions

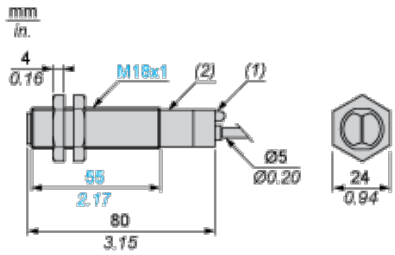
Receiver



(1) LED

(2) Potentiometer

Transmitter

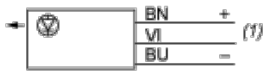


(1) LED

(2) Potentiometer

Wiring Schemes (3-wire DC)

Transmitter



BU : Blue

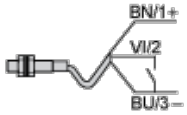
BN : Brown

VI : Violet

(1) Test

Beam Break Test

Beam Made

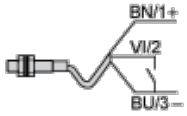


BU : Blue

BN : Brown

VI : Violet

Beam Broken



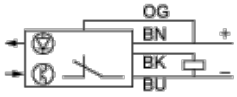
BU : Blue

BN : Brown

VI : Violet

Receiver

Light switching (no object present). PNP output



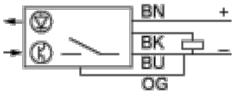
BN : Brown

BU : Blue

BK : Black

OG : Orange

Dark switching (no object present). PNP output



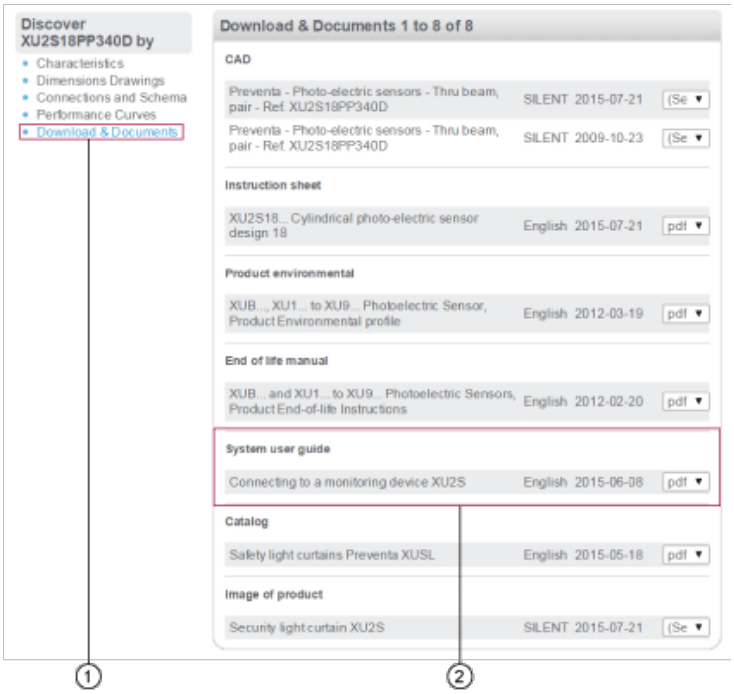
BN : Brown

BU : Blue

BK : Black

OG : Orange

Connecting to a Safety Module



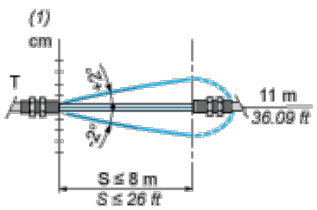
1 : Click on Download & Documents

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"

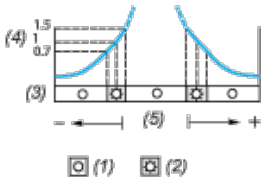
Curves

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