Product data sheet Characteristics

XU2S18PP340L5

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



		2.
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	1224 V DC (1030 V) reverse polarity protection	: <u>:</u>
Current consumption	<= 35 mA no-load	<u> </u>
Voltage drop	<= 1.5 V closed state	\`\ }
Switching capacity in mA	<= 100 mA (overload and short-circuit protection)	
Switching frequency	500 Hz maximum	ig
Electrical connection	Pre-cabled	
Line of sight type	Along case axis	
Delay response	<= 1 ms	9
Delay recovery	<= 1 ms	
Cable outer diameter	5 mm	+
Cable length	5 m	<u></u>
Cable composition	3 x 0.34 mm² for transmitter 4 x 0.34 mm² for receiver	iii to
Tightening torque	24 N.m fixing nut	
Function available	Built-in muting function Light or dark programmable switching	, 0 0 7
Marking	CE	- Pro-
Material	Case : nickel plated brass Lenses : PMMA (polymethyl methacrylate)	
Product weight	0.485 kg	
		5

Environment

Standards	EN/IEC 60825-1
	EN/IEC 61496-2

	EN/IEC 61496-1
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	-2555 °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	-4070 °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 = 1055 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
	Schneider Electric declaration of conformity

Contractual warranty

REACh

Warranty period	18 months

Reference not containing SVHC above the threshold

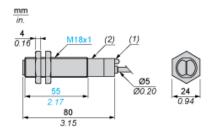
Reference not containing SVHC above the threshold

Product data sheet Dimensions Drawings

XU2S18PP340L5

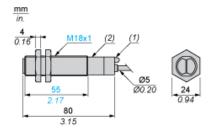
Dimensions

Receiver



(1) LED (2) Potentiometer

Transmitter



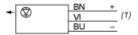
(1) LED(2) Potentiometer

Product data sheet Connections and Schema

XU2S18PP340L5

Wiring Schemes (3-wire DC)

Transmitter



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

Beam Break Test

Beam Made



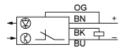
BU: Blue BN: Brown VI: Violet Beam Broken



BU: Blue BN: Brown VI: Violet

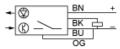
Receiver

Light switching (no object present). PNP output



BN: Brown
BU: Blue
BK: Black
OG: Orange

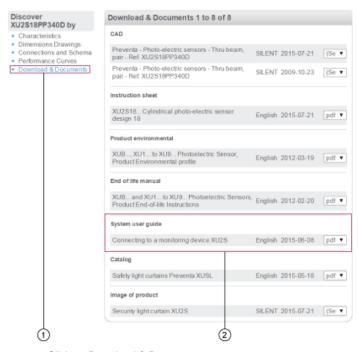
Dark switching (no object present). PNP output



BN: Brown
BU: Blue
BK: Black
OG: Orange

XU2S18PP340L5

Connecting to a Safety Module



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

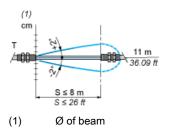
To have all connection schematics concerning our safety module, select "download and document" and download the file "Connecting to a monitoring device XU2S"

Product data sheet Performance Curves

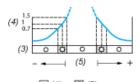
XU2S18PP340L5

Curves

Infrared Detection Curve



Verification of Correct Operation



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