Product data sheet Characteristics

XU2S18PP340WD

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

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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
[en] nonmar conding arotanics	
Complementary	
Detection system	Transmitter-receiver system
[Us] rated supply voltage	1224 V DC (1030 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	90° to case axis
Delay response	<= 1 ms
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	Case : nickel plated brass Lenses : PMMA (polymethyl methacrylate)
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 PL = c conforming to EN/ISO 13849-1 (associated with module XPSCM correctly wired)

Environment

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	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)

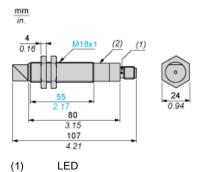
Warranty period	18 months
Contractual warranty	
	Reference not containing SVHC above the threshold
REACh	Reference not containing SVHC above the threshold
	Schneider Electric declaration of conformity
RoHS (date code: YYWW)	Compliant - since 1402 - Schneider Electric declaration of conformity
Offer Sustainability	
Vibration resistance	7 gn (f = 1055 Hz) conforming to EN/IEC 60068-2-6
Shock resistance	30 gn (3 axes : 3 times) conforming to EN/IEC 60068-2-27
IP degree of protection	IP67 conforming to EN/IEC 60529
Ambient air temperature for storage	-4070 °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 operation	-2555 °C
	Can reach category 2 conforming to EN/ISO 13849-1 (associated with module XPSCM correctly wired)

Product data sheet **Dimensions Drawings**

XU2S18PP340WD

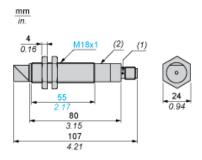
Dimensions

Receiver



(1) (2) Potentiometer

Transmitter



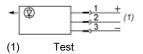
(1) (2) LED Potentiometer

Product data sheet Connections and Schema

XU2S18PP340WD

Wiring Schemes (3-wire DC)

Transmitter



Connector Pin View



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

Beam Break Test

Beam Made

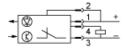


Beam Broken

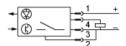


Receiver

Light switching (no object present). PNP output



Dark switching (no object present). PNP output



Connector Pin View

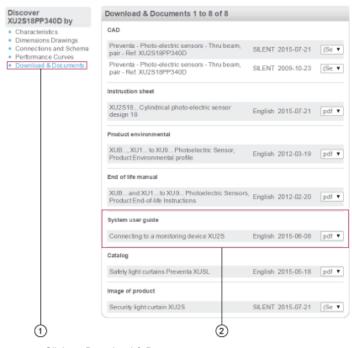


(1) (+) (2) Programming (3) (-)

(4) (-) (4) Output

XU2S18PP340WD

Connecting to a Safety Module



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

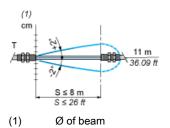
To have all connection schematics concerning our safety module, select "download and document" and download the file "Connecting to a monitoring device XU2S"

Product data sheet Performance Curves

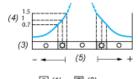
XU2S18PP340WD

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