Product datasheet
Characteristics

XU2S18PP340D

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	26.25 ft (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	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	0.34 lb(US) (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) Can reach category 2 conforming to EN/ISO 13849-1 (associated with module XPSCM correctly wired)
ambient air temperature for operation	-13...131 °F (-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...158 °F (-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

|	
Not Green Premium product	Not Green Premium product
Compliant - since 1005 - Schneider Electric declaration of conformity	Compliant - since 1005 - Schneider Electric declaration of conformity

Schneider Electric

Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
WARNING: This product can expose you to chemicals including:	WARNING: This product can expose you to chemicals including:
Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and	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.	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 more information go to www.p65warnings.ca.gov

Contractual warranty

Warranty period	18 months

Dimensions

Receiver
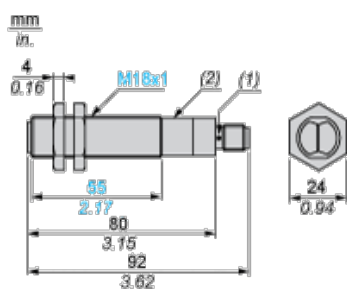
(1) LED
(2) Potentiometer

Transmitter
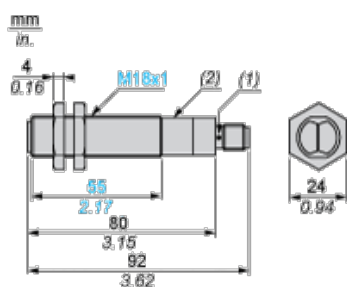
(1) LED
(2) Potentiometer

Wiring Schemes (3-wire DC)

Transmitter

(1) Test

Connector Pin View
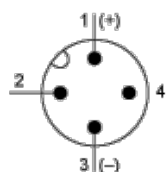
(1) (+)
(2) Test
(3) (-)
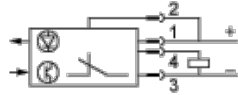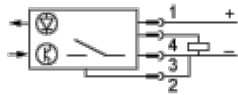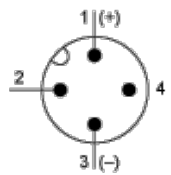
Beam Break Test

Beam Made
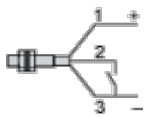
Beam Broken
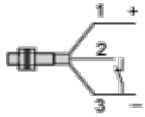
Light switching (no object present). PNP output

Dark switching (no object present). PNP output

Connector Pin View

(1) (+)

(2) Programming

(3) (-)
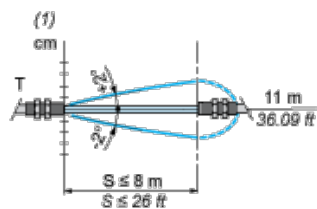
(4) Output

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"
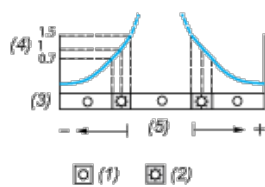
Curves

Schneider Electric

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