

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	Pre-cabled
Line of sight type	90° to case axis
Delay response	<= 1 ms
Delay recovery	<= 1 ms
Cable outer diameter	0.2 in (5 mm)
Cable length	16.4 ft (5 m)
Cable composition	3 x 0.34 mm ² transmitter 4 x 0.34 mm ² 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	1.07 lb(US) (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	-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

Compliant - since 1402 - Schneider Electric declaration of conformity

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Reference not containing SVHC above the threshold

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WARNING: This product can expose you to chemicals including:

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Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and

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Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.

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For more information go to www.p65warnings.ca.gov

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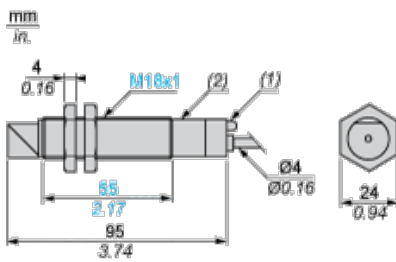
Contractual warranty

Warranty period

18 months

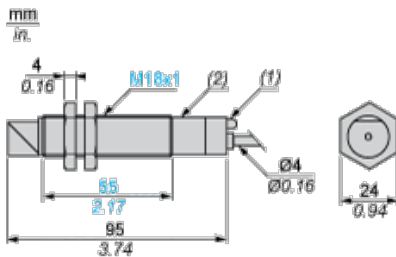
Dimensions

Receiver



- (1) LED
- (2) Potentiometer

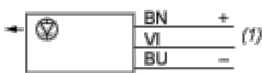
Transmitter



- (1) LED
- (2) Potentiometer

Wiring Schemes (3-wire DC)

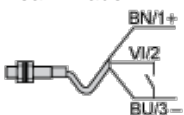
Transmitter



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

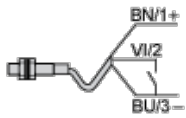
Beam Break Test

Beam Made



BU : Blue

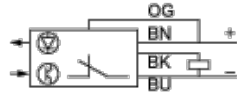
BN : Brown
 VI : Violet
 Beam Broken



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

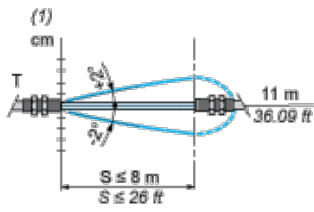
Connecting to a Safety Module

- 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"

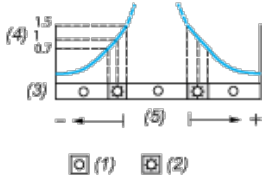
Curves

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