Product data sheet
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	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) Type 2 conforming to IEC 61496-1-2
Ambient air temperature for operation	-25...55 °C
Safety reliability data	PFH = 5.5E-7 1/h conforming to IEC 61508 (with muting function) PFH = 4.6E-7 1/h conforming to IEC 61508
Ambient air temperature for storage	-40...70 °C

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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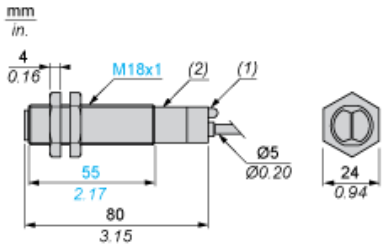
IP degree of protection	IP67 conforming to EN/IEC 60529
Shock resistance	30 gn (3 axes : 3 times) conforming to EN/IEC 60068-2-27
Vibration resistance	7 gn (f = 10...55 Hz) conforming to EN/IEC 60068-2-6

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1005 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold

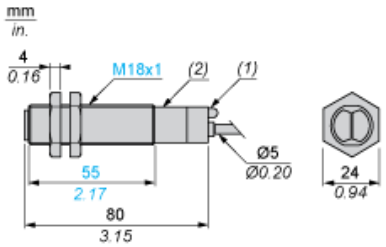
Dimensions

Receiver



(1) LED
(2) Potentiometer

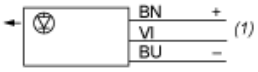
Transmitter



(1) LED
(2) Potentiometer

Wiring Schemes (3-wire DC)

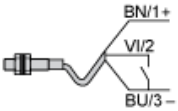
Transmitter



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

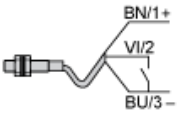
Beam Break Test

Beam Made



BU : Blue
BN : Brown
VI : Violet

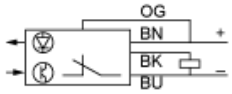
Beam Broken



BU : Blue
BN : Brown
VI : Violet

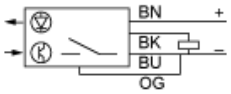
Receiver

Light switching (no object present). PNP output



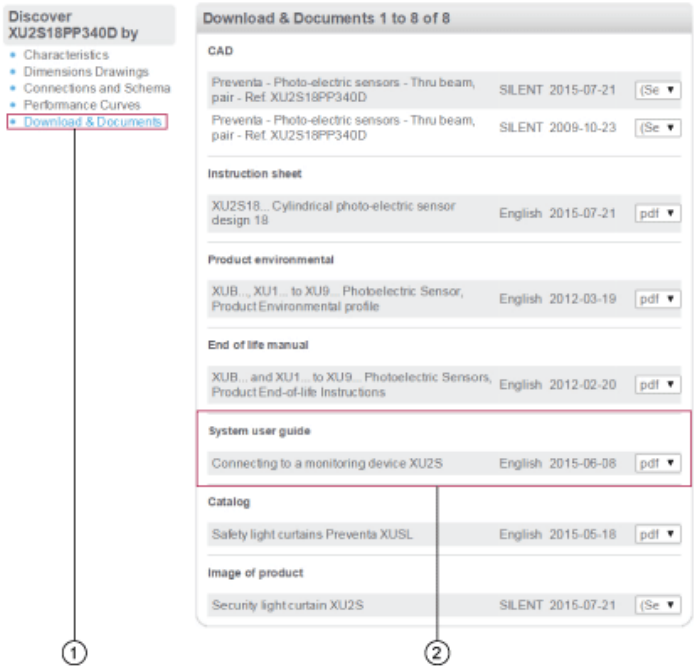
BN : Brown
BU : Blue
BK : Black
OG : Orange

Dark switching (no object present). PNP output



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

Connecting to a Safety Module

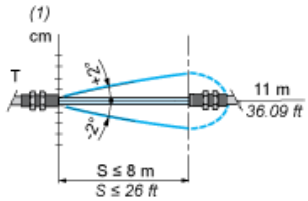


1 : Click on Download & Documents
2 : Click on System user guide

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

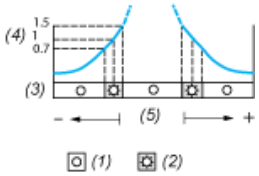
Curves

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

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Global Electronic Components Distributor

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Telemecanique Sensors:

XCKD2128P16 XCMD2145M12 XS512B1NAL2 ZC2JY31 XCRT215 XCSE8311 XMLA004A2S11 XUK5ANANL2 XUX0AKSAT16T XCSDMP5002 XS106B3PAM8 XY2CZ3015 XCPR2102P20 XS612B1MAL10 ZCKD15 XCKJ10541H29C XS8C2A4MAU20 XSZE130 XY2CZ105 XUM9APXBL2 ZCKJ404 XS112B3PCL2 XS518B1PBM12 XSZB118 XXS18P1PM12 XY2CE2A150H7 ZCMC21L1 XS512B1DAL2 XZCP1164L15 ZCKE055