



Main

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|-------------------------------|--|
| 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 mm ² for transmitter 4 x 0.34 mm ² 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 | 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 | -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...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 |

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. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Offer Sustainability

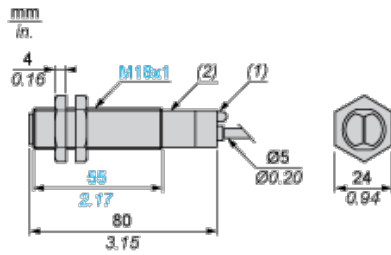
| | |
|--------------------------|---|
| Sustainable offer status | Not Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 1005 - Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |

Contractual warranty

| | |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

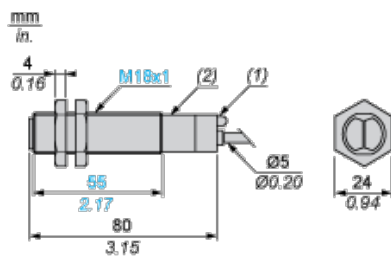
Dimensions

Receiver



- (1) LED
- (2) Potentiometer

Transmitter



- (1) LED
- (2) Potentiometer

Wiring Schemes (3-wire DC)

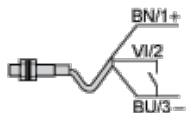
Transmitter



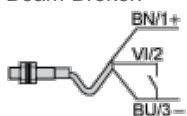
- BU : Blue
- BN : Brown
- VI : Violet
- (1) Test

Beam Break Test

Beam Made



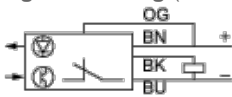
- BU : Blue
 - BN : Brown
 - VI : Violet
- Beam Broken



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

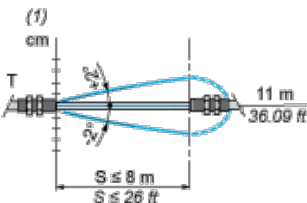
Connecting to a Safety Module

- 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"

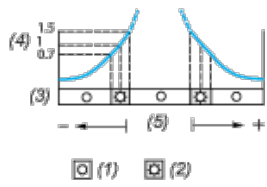
Curves

Infrared Detection Curve



(1) \varnothing of beam

Verification of Correct Operation



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