



Main

Range of product	Telemecanique Safety light curtains XUSL
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
Maximum voltage drop	<1.5 V closed)
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
Maximum delay response	1 ms
Maximum delay recovery	1 ms
Cable outer diameter	0.20 in (5 mm)
Cable length	16.40 ft (5 m)
Cable composition	3 x 0.34 mm ² transmitter 4 x 0.34 mm ² receiver
Tightening torque	212.42 lbf.in (24 N.m) fixing nut
Function available	Built-in muting function Light or dark programmable switching
Marking	CE
Material	Nickel plated brass case PMMA (polymethyl methacrylate) lenses

Disclaimer: 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

Net weight	1.07 lb(US) (0.485 kg)
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Environment

Standards	EN/IEC 60825-1 EN/IEC 61496-2 EN/IEC 61496-1
Safety level	Can reach PL = c associated with module XPSCM correctly wired EN/ISO 13849-1 Can reach category 2 associated with module XPSCM correctly wired EN/ISO 13849-1 Type 2 IEC 61496-1-2
Ambient air temperature for operation	-13...131 °F (-25...55 °C)
Safety reliability data	PFH = 5.5E-7 1/h with muting function IEC 61508 PFH = 4.6E-7 1/h IEC 61508
Ambient air temperature for storage	-40...158 °F (-40...70 °C)
IP degree of protection	IP67 EN/IEC 60529
Shock resistance	30 gn 3 axes : 3 times EN/IEC 60068-2-27
Vibration resistance	7 gn 10...55 Hz)EN/IEC 60068-2-6

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	15.27 oz (433 g)
Package 1 Height	2.60 in (6.6 cm)
Package 1 width	3.70 in (9.4 cm)
Package 1 Length	5.12 in (13 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	14
Package 2 Weight	14.37 lb(US) (6.517 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

Offer Sustainability

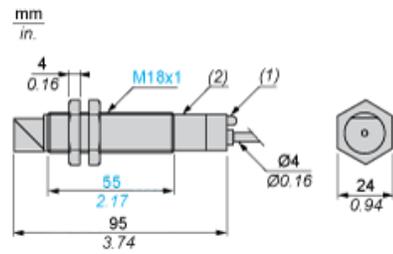
Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

Contractual warranty

Warranty	18 months
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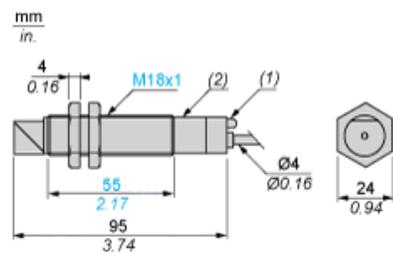
Dimensions

Receiver



- (1) LED
- (2) Potentiometer

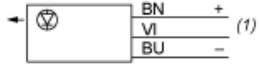
Transmitter



- (1) LED
- (2) Potentiometer

Wiring Schemes (3-wire DC)

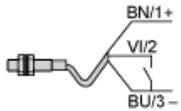
Transmitter



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

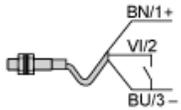
Beam Break Test

Beam Made



BU : Blue
BN : Brown
VI : Violet

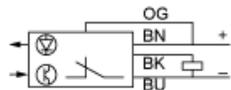
Beam Broken



BU : Blue
BN : Brown
VI : Violet

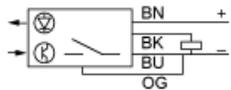
Receiver

Light switching (no object present). PNP output



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

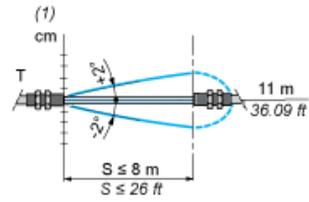
Dark switching (no object present). PNP output



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

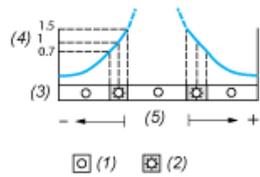
Curves

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