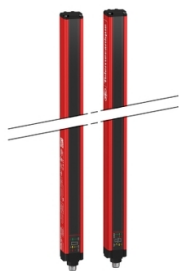# Product data sheet

Specifications

Safety light curtain type 2, Telemecanique Safety light curtains XUSL, XUSL Hand protection, Std sensing range, Hp = 1510 mm, R=30 mm

XUSL2E30H151N

Main

Range Of Product	Telemecanique Safety light curtains XUSL
Product Or Component Type	Safety light curtain type 2
Device Short Name	XUSL2E
Output Type	2 safety outputs OSSD solid-state PNP (arc suppression)
Product Specific Application	For hand protection
[R] Resolution	30 mm
[Sn] Nominal Sensing Distance	0…12 m by cabling 0…4 m by cabling
[Hp] Height Protected	1510 mm
Number Of Beams	76
Type Of Start / Restart	Automatic Manual
External Device Monitoring (Edm)	Selected by wiring

Complementary

Detection System	Transmitter-receiver system
Response Time	19.5 ms
Kit Composition	adjustable mounting bracket(s) 1 receiver(s) 1 transmitter(s) 1 user guide with certificate of conformity on CD-ROM
[Eaa] Effective Aperture Angle	5 ° at 3 m
Emission	IR LED 950 nm
[Us] Rated Supply Voltage	24 V DC +/- 20 %
Supply	Power supply conforming to IEC 61496-1 Power supply conforming to IEC 60204-1
[Ie] Rated Operational Current	2 A
Current Consumption	42 mA no-load transmitter 83 mA no-load receiver 42 mA transmitter 900 mA with maximum load receiver
Output Current Limits	0.4 A for safety outputs OSSD
Output Voltage	24 V
Output Circuit Type	DC
Maximum Voltage Drop	<0.5 V

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Local Signalling	1 multi-colour LED transmitter
	2 dual colour LEDs receiver

Electrical Connection	1 male connector M12 5 pins transmitter
	1 male connector M12 8 pins receiver

Function Available	Test
	Muting through external safety module XPSLCMUT1160
	LED display of operating modes and faults

Marking	CE

Material	Aluminium: casing
	Polycarbonate: front panel
	Polypropylene: end caps

Housing Colour	Red RAL 3000

Fixing Mode	By fixing brackets

Net Weight	2.8 kg

Offer Type	Standard distance

Environment

Directives	98/37/EEC - machinery
	89/336/EEC - electromagnetic compatibility
	89/655/EEC - work equipment

Product Certifications	CE
	cULus
	TÜV

Safety Level (Correctly Wired)	Type 2 conforming to IEC 61496-1
	Category 2 conforming to ISO 13849-1
	SIL 1 conforming to IEC 61508
	SILCL 1 conforming to IEC 62061
	PL = c conforming to ISO 13849-1

Optical Characteristic	Resistance to light disturbance conforming to IEC 61496-2

Mission Time	20 year(s)

Safety Reliability Data	PFHd = 7.71E-8 1/h conforming to IEC 61508

Ambient Air Temperature For Operation	-30…55 °C
	-10…55 °C

Ambient Air Temperature For Storage	-35…70 °C
	-25…70 °C

Relative Humidity	0…95 % without condensation

Ip Degree Of Protection	IP65
	IP67

Shock Resistance	10 gn for 16 ms conforming to IEC 61496-1

Vibration Resistance	0.35 +/- 0.05 mm (f= 10…55 Hz) conforming to IEC 61496-1

Packing Units

Unit Type Of Package 1	PCE

Number Of Units In Package 1	1

Package 1 Height	13.5 cm

Package 1 Width	20.0 cm

Package 1 Length	162.0 cm

Package 1 Weight	5.0 kg

Contractual warranty

Warranty   18 months

Sustainability

Green Premium^{TM} label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

RoHS/REACh

Well-being performance

✓ Reach Free Of Svhc

✓ Toxic Heavy Metal Free

✓ Mercury Free

✓ Rohs Exemption Information   Yes

Certifications & Standards

Reach Regulation   REACh Declaration

Eu Rohs Directive   Pro-active compliance (Product out of EU RoHS legal scope)

EU RoHS Declaration

California Proposition 65   WARNING: This product can expose you to chemicals including: 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. For more information go to www.P65Warnings.ca.gov
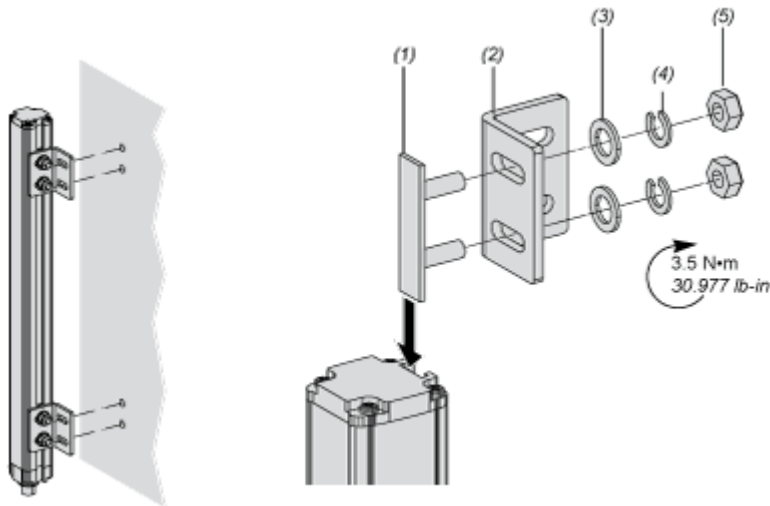
Dimensions Drawings

Dimensions

mm
in.

29.4
1.16

31
1.22

11
0.43

1563
61.54

61.5
2.42

29.5
1.16
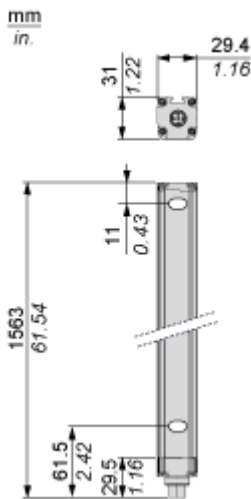
Brackets Dimensions
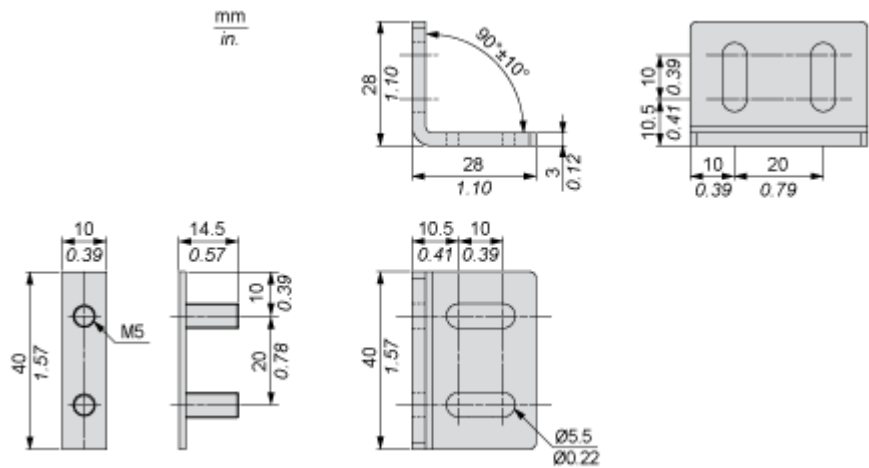
Mounting and Clearance

Mounting and Clearance
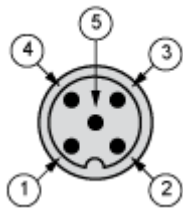

(1) Insert

(2) Bracket

(3) Washer

(4) Spring washer

(5) Nut

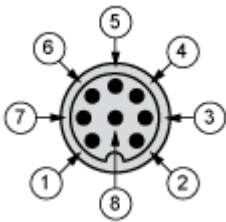Connections and Schema

Wiring Diagrams

Transmitter Connections

(1)   +24 Vdc

(2)   Configuration_0

(3)   0 Vdc

(4)   Configuration_1

(5)   FE

Transmitter configurations and operating modes

	High range option	Low range option	Transmitter in Test state	Forbidden wiring
Pin 4 : Configuration_1	24 V	0 V	0 V	24 V
Pin 2 : Configuration_0	0 V	24 V	0 V	24 V

Receiver Connections
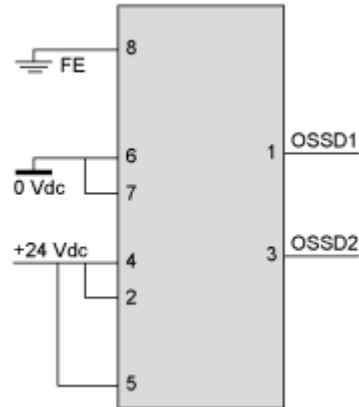

(1)   OSSD1

(2)   + 24 V

(3)   OSSD2

(4)   Configuration_A

(5)   K1_K2 Feeback/Restart

(6)   Configuration_B

(7)   0 Vdc

(8)   FE
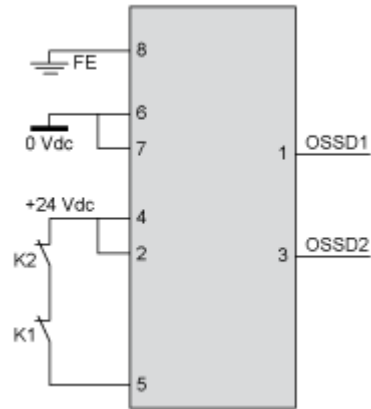
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Receiver Configurations and Operating Modes

Automatic Start/Restart

Without External Device Monitoring (EDM) feedback loop
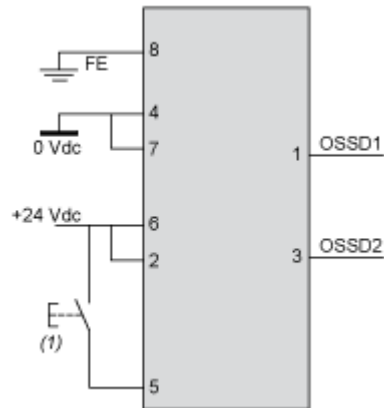

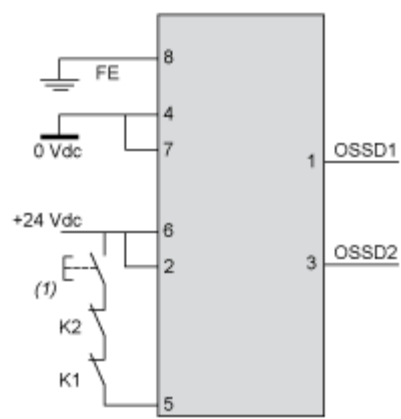With External Device Monitoring (EDM) feedback loop

Manual Start/Restart

Without External Device Monitoring (EDM) feedback loop

(1)   Restart

With External Device Monitoring (EDM) feedback loop

FE
8
4
0 Vdc
7
1   OSSD1
+24 Vdc
6
2
3   OSSD2
(1)
K2
K1
5

(1)   Restart

Connecting to a Safety Interface

1 :   Click on Download & Documents

2 :   Click on Application solutions

To have all connection schematics concerning our safety module, select "download and document" and download the file "Safety light curtains association with safety interfaces"