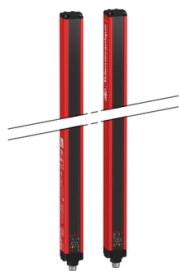# Product data sheet

Specifications

Safety light curtain type 2, Telemecanique Safety light curtains XUSL, XUSL Hand protection, Std sensing range, Hp = 1210 mm, R=30 mm

XUSL2E30H121N

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	1210 mm
Number Of Beams	61
Type Of Start / Restart	Manual Automatic
External Device Monitoring (Edm)	Selected by wiring

Complementary

Detection System	Transmitter-receiver system
Response Time	16 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	2.3 kg
Offer Type	Standard distance

Environment

Directives	98/37/EEC - machinery
	89/655/EEC - work equipment
	89/336/EEC - electromagnetic compatibility
Product Certifications	TÜV
	cULus
	CE
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 = 6.45E-8 1/h conforming to IEC 61508
Ambient Air Temperature For Operation	-10…55 °C
	-30…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	14.5 cm
Package 1 Width	19.5 cm
Package 1 Length	134.0 cm
Package 1 Weight	4.464 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

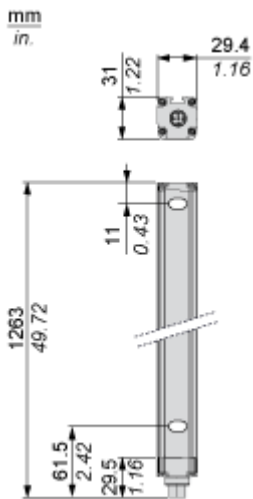✓ Reach Free Of Svhc

✓ Toxic Heavy Metal Free

✓ Mercury Free

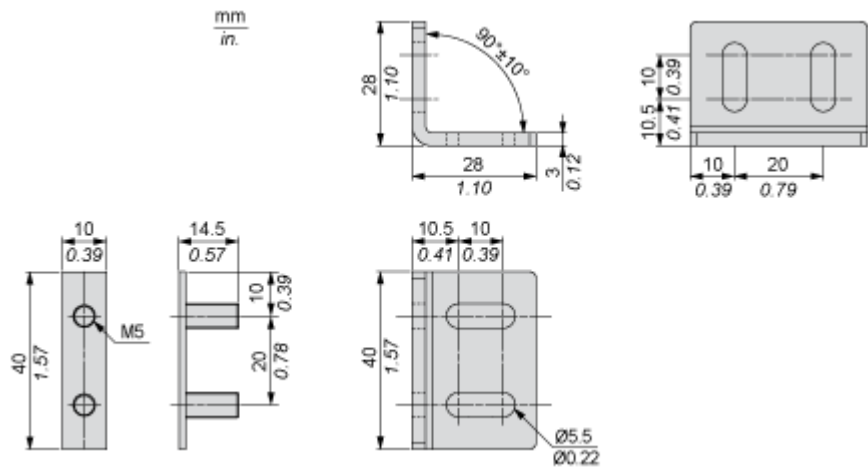✓ Rohs Exemption Information   Yes

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

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Dimensions Drawings

Dimensions

mm
in.

31
1.22

29.4
1.16

11
0.43

1263
49.72

61.5
2.42

29.5
1.16

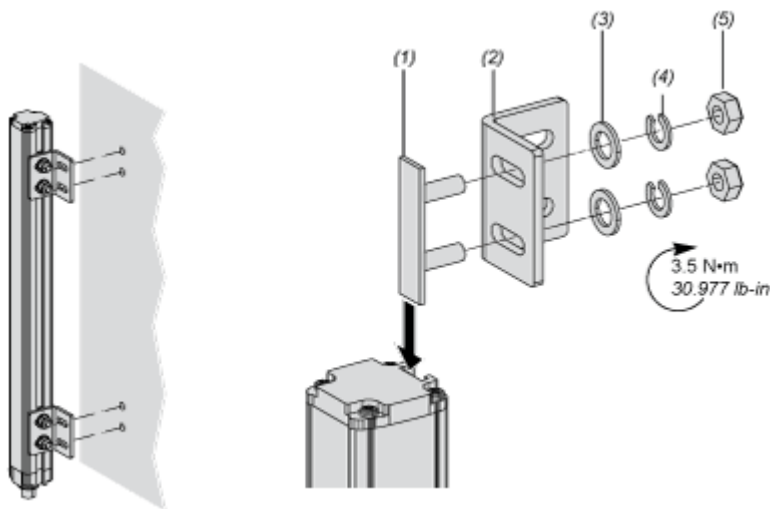**Brackets Dimensions**

Mounting and Clearance
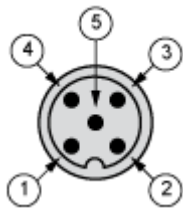
Mounting and Clearance

(1)   Insert

(2)   Bracket

(3)   Washer

(4)   Spring washer

(5)   Nut

Connections and Schema

Wiring Diagrams

Transmitter Connections
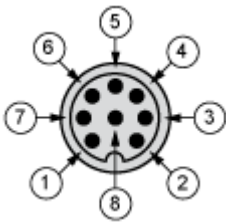

(1)   +24 Vdc

(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
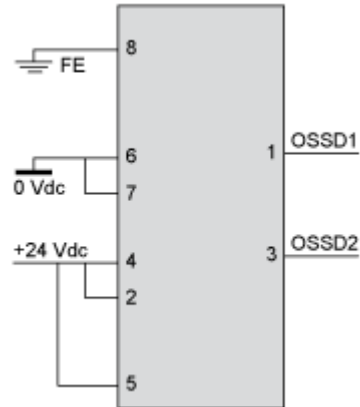

(1)   OSSD1

(2)   + 24 V

(3)   OSSD2

(4)   Configuration_A

(5)   K1_K2 Feeback/Restart

(6)   Configuration_B

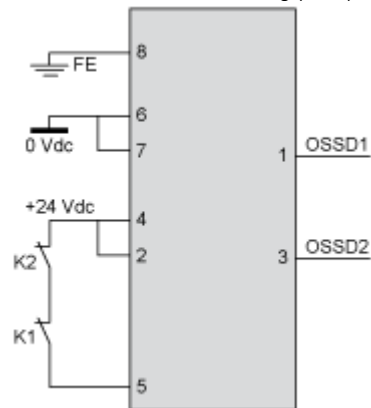(7)   0 Vdc

(8)   FE

Receiver Configurations and Operating Modes

Automatic Start/Restart

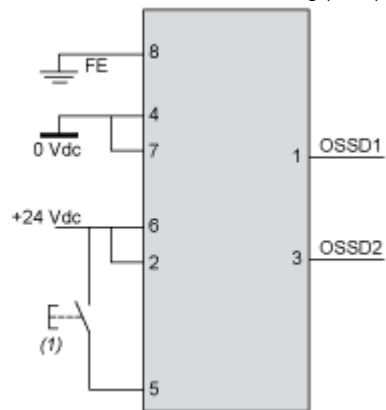Without External Device Monitoring (EDM) feedback loop

```
  ═ FE        8

             6        1  OSSD1
  0 Vdc      7

  +24 Vdc    4        3  OSSD2
             2

             5
```

With External Device Monitoring (EDM) feedback loop

```
  ═ FE        8

              6
  0 Vdc       7       1  OSSD1

  +24 Vdc     4
              2       3  OSSD2
  K2
  K1
              5
```

Manual Start/Restart

Without External Device Monitoring (EDM) feedback loop

```
  ═ FE        8
              4
  0 Vdc       7       1  OSSD1

  +24 Vdc     6
              2       3  OSSD2
  E--
  (1)
              5
```

(1)   Restart

With External Device Monitoring (EDM) feedback loop

8   FE

4

7   OSSD1   1

0 Vdc

+24 Vdc

6

2   OSSD2   3

(1)

K2

K1

5
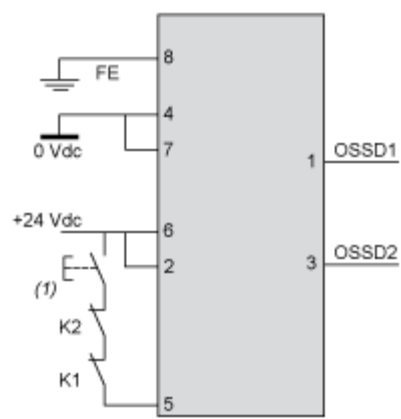
(1)   Restart

Connecting to a Safety Interface
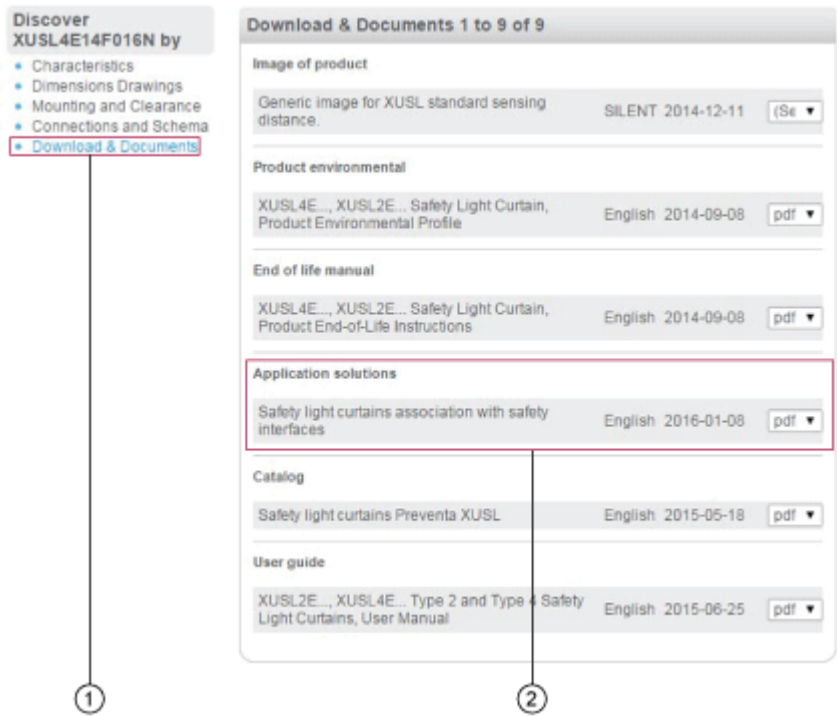
1 :   Click on Download & Documents

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"