

## Main

Range of product	Preventa Safety detection
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	1.18 in (30 mm)
[Sn] nominal sensing distance	0...12 M by cabling 0...4 m by cabling
[Hp] Height protected	41.73 in (1060 mm)
Number of beams	53
Type of start / restart	Manual Automatic
External Device Monitoring (EDM)	Selected by wiring

## Complementary

Detection system	Transmitter-receiver system
Response time	14.5 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
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	4.41 lb(US) (2 kg)
Offer type	Standard distance

## Environment

Directives	89/336/EEC - electromagnetic compatibility 2002/96/EC - WEEE directive 98/37/EEC - machinery 89/655/EEC - work equipment 2002/95/EC - RoHS directive
Product certifications	CE CULus TÜV
Safety level (correctly wired)	Type 2 IEC 61496-1 Category 2 EN/ISO 13849-1 SIL 1 IEC 61508 SILCL 1 IEC 62061 PL = c EN/ISO 13849-1
Optical characteristic	Resistance to light disturbance conforming to EN/IEC 61496-2
Mission time	20 year(s)
Safety reliability data	PFHd = 5.83E-8 1/h IEC 61508
Ambient air temperature for operation	14...131 °F (-10...55 °C) -22...131 °F (-30...55 °C)
Ambient air temperature for storage	-31...158 °F (-35...70 °C) -13...158 °F (-25...70 °C)
Relative humidity	0...95 % without condensation
IP degree of protection	IP65 IP67
Shock resistance	10 gn 16 ms IEC 61496-1
Vibration resistance	0.35 +/- 0.05 mm 10...55 Hz)IEC 61496-1



## Ordering and shipping details

Category	22455 - LIGHT CURTAINS - XUSL
Discount Schedule	DS2
GTIN	03389119618564
Nbr. of units in pkg.	1
Package weight(Lbs)	8.77 lb(US) (3.98 kg)
Returnability	No
Country of origin	IT

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	5.51 in (14 cm)
Package 1 width	7.68 in (19.5 cm)
Package 1 Length	46.85 in (119 cm)

## Offer Sustainability

Sustainable offer status	Green Premium product
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	 Yes

Environmental Disclosure	<a href="#"> Product Environmental Profile</a>
Circularity Profile	<a href="#"> End Of Life Information</a>

Contractual warranty

Warranty	18 months
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Technical drawing of a mechanical part, showing five views: front, top, left side, right side, and isometric. The part is a rectangular block with a central slot and a circular hole. Dimensions are given in mm and inches.

**Front View:** Overall height 40 mm, width 10 mm. A circular hole is located 1.57 mm from the top edge. The hole has a diameter of 5 mm (Ø5).

**Top View:** Overall width 28 mm, depth 1.10 mm. A central slot is 3 mm wide and 0.12 mm deep. The slot is 1.10 mm from the front edge. The corner is rounded with a radius of 90°±10°.

**Left Side View:** Overall height 14.5 mm, width 0.57 mm. A central slot is 10 mm wide and 0.39 mm deep. The slot is 20 mm from the top edge. The bottom edge is 0.78 mm from the base.

**Right Side View:** Overall height 10.5 mm, width 0.41 mm. A central slot is 10 mm wide and 0.39 mm deep. The slot is 20 mm from the top edge. The bottom edge is 0.79 mm from the base.

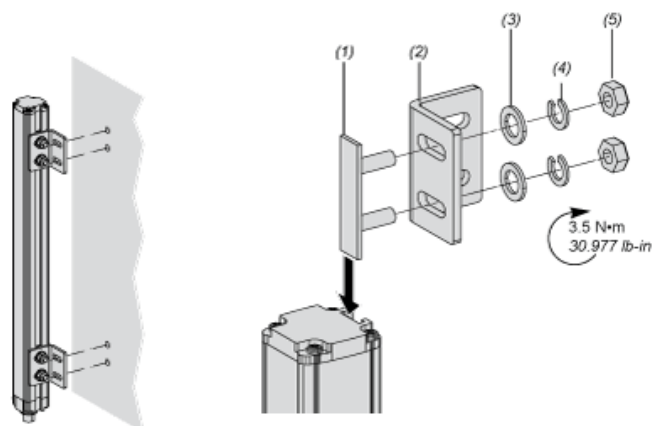
**Isometric View:** Shows the 3D shape of the part. Dimensions are 40 mm height, 10.5 mm width, and 1.57 mm depth. The central slot is 10.5 mm wide and 0.39 mm deep. The hole has a diameter of 5.5 mm (Ø5.5) and a depth of 0.22 mm (Ø0.22).

Scale: 1:1

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Mounting and Clearance

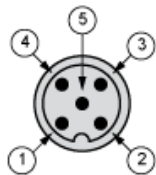
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- (1) Insert
- (2) Bracket
- (3) Washer
- (4) Spring washer
- (5) Nut

Wiring Diagrams

Transmitter Connections

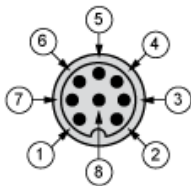


- (1) +24 Vdc
- (2) Configuration\_0
- (3) 0 Vdc
- (4) Configuration\_1
- (5) FE

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

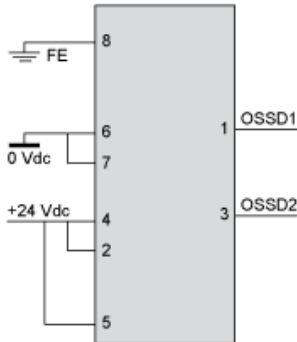


- (1) OSSD1
- (2) + 24 V
- (3) OSSD2
- (4) Configuration\_A
- (5) K1\_K2 Feeback/Restart
- (6) Configuration\_B
- (7) 0 Vdc
- (8) FE

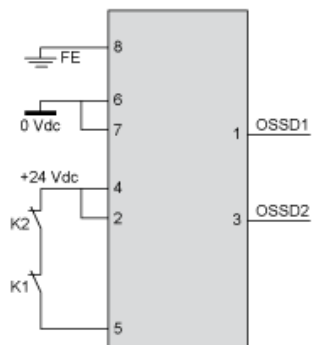
Receiver Configurations and Operating Modes

Automatic Start/Restart

Without External Device Monitoring (EDM) feedback loop

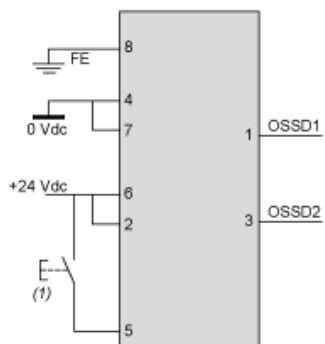


With External Device Monitoring (EDM) feedback loop



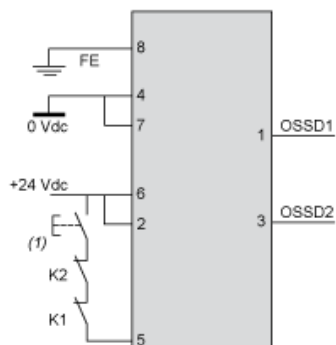
## Manual Start/Restart

Without External Device Monitoring (EDM) feedback loop



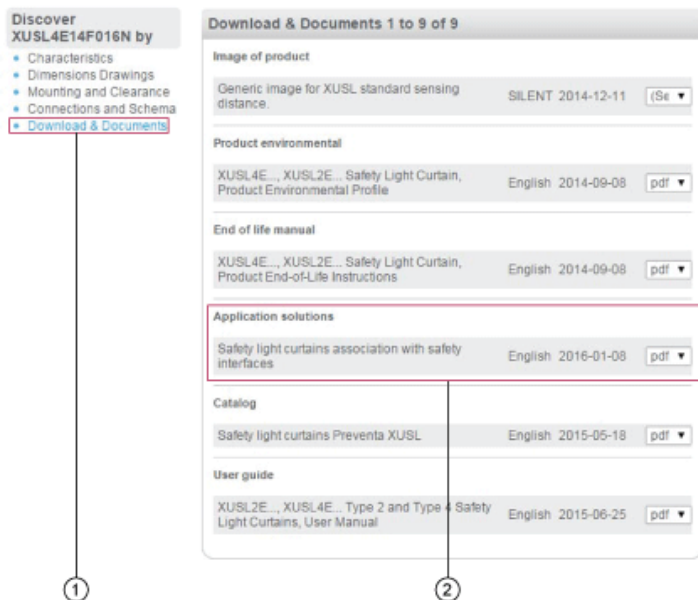
(1) Restart

With External Device Monitoring (EDM) feedback loop



(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"