

## Main

|                                  |  |
|----------------------------------|--|
| Range of product                 | Preventa Safety detection  |
| Product or component type        | Safety light curtain type 4  |
| Device short name                | XUSL4E   |
| 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    | 9.84...65.62 Ft (3...20 m) by cabling<br>0.00...32.81 ft (0...10 m) by cabling |
| [Hp] Height protected            | 35.83 in (910 mm)  |
| Number of beams                  | 46   |
| Type of start / restart          | Automatic<br>Manual  |
| External Device Monitoring (EDM) | Selected by wiring   |

## Complementary

|                                |  |
|--------------------------------|--|
| Detection system               | Transmitter-receiver system  |
| Response time                  | 7.5 ms   |
| Kit composition                | Adjustable mounting bracket(s)<br>1 receiver(s)<br>1 transmitter(s)<br>1 user guide with certificate of conformity on CD-ROM |
| [EAA] effective aperture angle | 2.5 ° at 3 m   |
| Emission                       | IR LED 950 nm  |
| [Us] rated supply voltage      | 24 V DC +/- 20 %   |
| Supply                         | Power supply conforming to IEC 61496-1<br>Power supply conforming to IEC 60204-1   |
| [Ie] rated operational current | 2 A  |
| Current consumption            | 42 mA no-load transmitter<br>83 mA no-load receiver<br>42 mA transmitter<br>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<br>2 dual colour LEDs receiver  |
| Electrical connection          | 1 male connector M12 5 pins transmitter<br>1 male connector M12 8 pins receiver  |
| Function available             | Test<br>Muting through external safety module XPSLCMUT1160<br>LED display of operating modes and faults                      |
| Marking                        | CE   |
| Material                       | Aluminium casing<br>Polycarbonate: front panel<br>Polypropylene: end caps  |
| Housing colour                 | Red RAL 3000   |
| Fixing mode                    | By fixing brackets   |

|            |                      |
|------------|----------------------|
| Net Weight | 3.75 lb(US) (1.7 kg) |
| Offer type | Long distance        |

## Environment

|                                       |  |
|---------------------------------------|--|
| Directives                            | 89/336/EEC - electromagnetic compatibility<br>89/655/EEC - work equipment<br>98/37/EEC - machinery<br>2002/95/EC - RoHS directive<br>2002/96/EC - WEEE directive                       |
| Product certifications                | TÜV<br>CULus<br>CE   |
| Safety level (correctly wired)        | Type 4 conforming to IEC 61496-1<br>SIL 3 conforming to IEC 61508<br>SILCL 3 conforming to IEC 62061<br>Category 4 conforming to EN/ISO 13849-1<br>PL = e conforming to 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 = 1.30E-8 1/h IEC 61508   |
| Ambient air temperature for operation | -4...131 °F (-20...55 °C)<br>14...131 °F (-10...55 °C)   |
| Ambient air temperature for storage   | -13...158 °F (-25...70 °C)<br>-31...158 °F (-35...70 °C)   |
| Relative humidity                     | 0...95 % without condensation  |
| IP degree of protection               | IP65<br>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                  | 03389119618465                |
| Nbr. of units in pkg. | 1                             |
| Package weight(Lbs)   | 7.88 lb(US) (3.57 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       | 39.37 in (100 cm) |

## Offer Sustainability

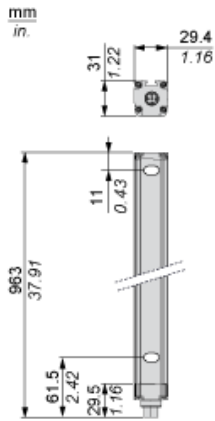
|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, 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>      |

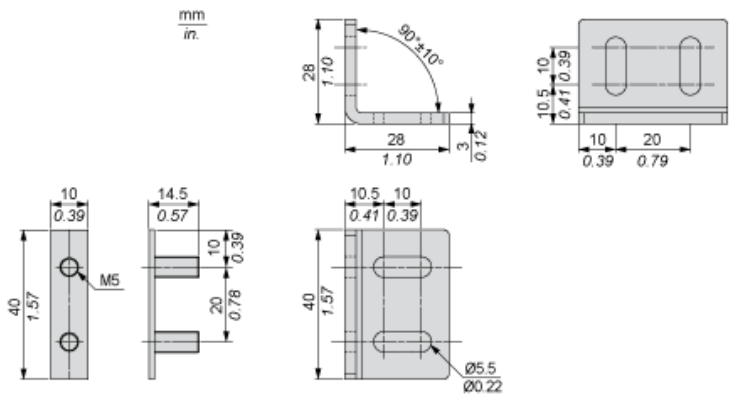
Contractual warranty

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

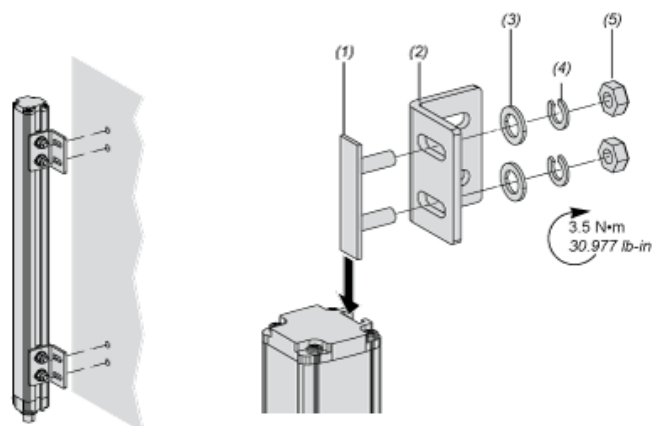
Dimensions



Brackets Dimensions



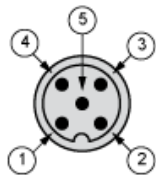
## Mounting and Clearance



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

Wiring Diagrams

Transmitter Connections

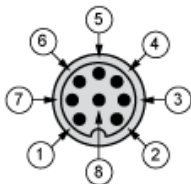


- (1) +24 Vdc
- (2) Configuration\_0
- (3) 0 Vdc
- (4) Configuration\_1
- (5) FE

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

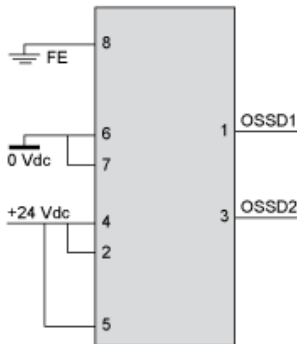


- (1) OSSD1
- (2) + 24 V
- (3) OSSD2
- (4) Configuration\_A
- (5) K1\_K2 Feeback/Restart
- (6) Configuration\_B
- (7) 0 Vdc
- (8) FE

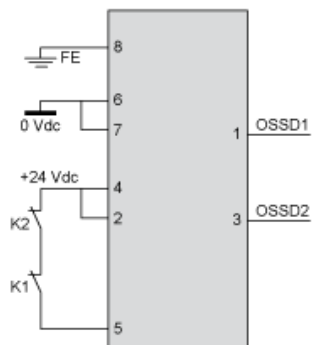
Receiver Configurations and Operating Modes

Automatic Start/Restart

Without External Device Monitoring (EDM) feedback loop

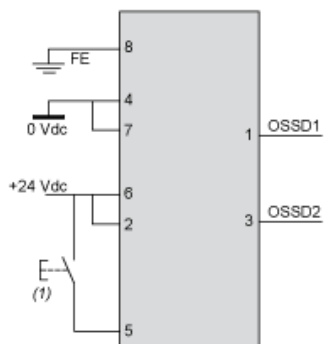


With External Device Monitoring (EDM) feedback loop



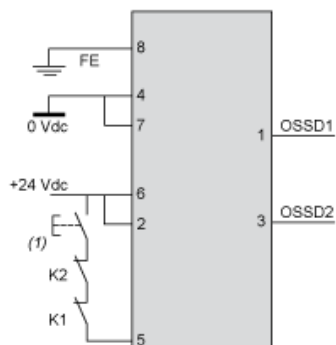
## Manual Start/Restart

Without External Device Monitoring (EDM) feedback loop



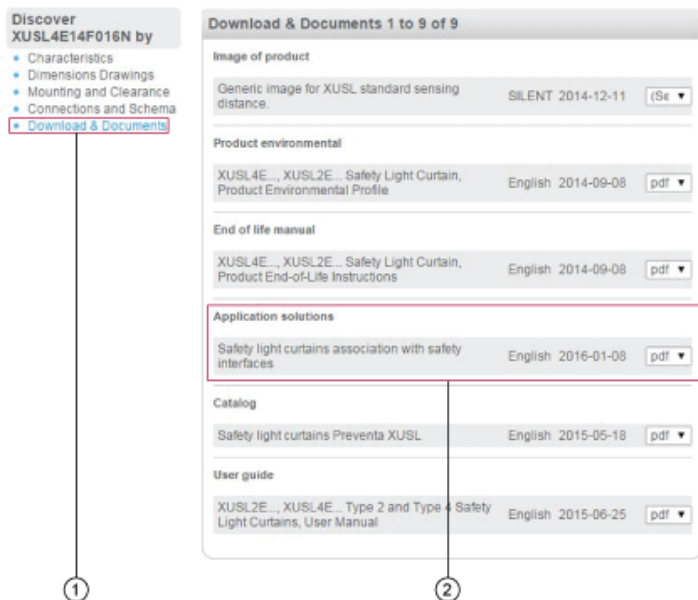
(1) Restart

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"