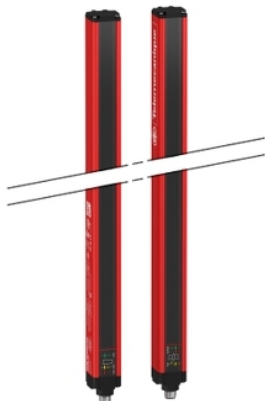


Product availability: Stock - Normally stocked in distribution facility



## 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 (integrated arc suppression) |
| Product specific application     | For hand protection                                                |
| [R] Resolution                   | 1.18 in (30 mm)                                                    |
| [Sn] nominal sensing distance    | 0...12 m by cabling<br>0...4 m by cabling                          |
| [Hp] Height protected            | 24.02 in (610 mm)                                                  |
| Number of beams                  | 31                                                                 |
| Type of start / restart          | Automatic<br>Manual                                                |
| External Device Monitoring (EDM) | Selected by wiring                                                 |

## Complementary

|                                |                                                                                                                              |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Detection system               | Transmitter-receiver system                                                                                                  |
| Response time                  | 9 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 ( $\lambda = 950$ nm)                                                                                                 |
| [Us] rated supply voltage      | 24 V DC (+/- 20 %)                                                                                                           |
| Supply                         | Power supply must meet requirements of IEC 61496-1<br>Power supply must meet requirements of 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                                                                                                                           |
| Voltage drop                   | $\leq 0.5$ 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             | Muting through external safety module XPSLCMUT1160<br>LED display of operating modes and faults<br>Test                      |
| Marking                        | CE                                                                                                                           |
| Material                       | Front panel: polycarbonate<br>End caps: polypropylene<br>Casing : aluminium                                                  |
| Housing colour                 | RAL 3000: red                                                                                                                |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                |                      |
|----------------|----------------------|
| Fixing mode    | By fixing brackets   |
| Product weight | 2.65 lb(US) (1.2 kg) |
| Offer type     | Standard distance    |

## Environment

|                                       |                                                                                                                                                                                        |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Directives                            | 2002/96/EC - WEEE directive<br>2002/95/EC - RoHS directive<br>89/336/EEC - electromagnetic compatibility<br>89/655/EEC - work equipment<br>98/37/EEC - machinery                       |
| Product certifications                | CE<br>TÜV<br>cULus                                                                                                                                                                     |
| Safety level (correctly wired)        | SIL 3 conforming to IEC 61508<br>Type 4 conforming to IEC 61496-1<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 yr                                                                                                                                                                                  |
| Safety reliability data               | PFHd = 1.06E-8 1/h conforming to IEC 61508                                                                                                                                             |
| Ambient air temperature for operation | 14...131 °F<br>-22...131 °F (-30...55 °C)                                                                                                                                              |
| Ambient air temperature for storage   | -13...158 °F<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 conforming to IEC 61496-1                                                                                                                                                  |
| Vibration resistance                  | 0.35 +/- 0.05 mm (f = 10...55 Hz) conforming to IEC 61496-1                                                                                                                            |

## Ordering and shipping details

|                       |                               |
|-----------------------|-------------------------------|
| Category              | 22455 - LIGHT CURTAINS - XUSL |
| Discount Schedule     | DS2                           |
| GTIN                  | 00785901502630                |
| Nbr. of units in pkg. | 1                             |
| Package weight(Lbs)   | 5.179999999999997             |
| Returnability         | Y                             |
| Country of origin     | IT                            |

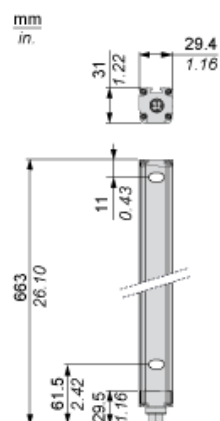
## Offer Sustainability

|                                  |                                                                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                                                              |
| RoHS (date code: YYWW)           | Compliant - since 1425 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold                                                                                  |
| Product environmental profile    | Available                                                                                                                          |
| Product end of life instructions | Available                                                                                                                          |
| California proposition 65        | WARNING: This product can expose you to chemicals including:                                                                       |
| ----- Substance 1                | Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and                                        |
| ----- Substance 2                | Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.         |
| ----- More information           | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                      |

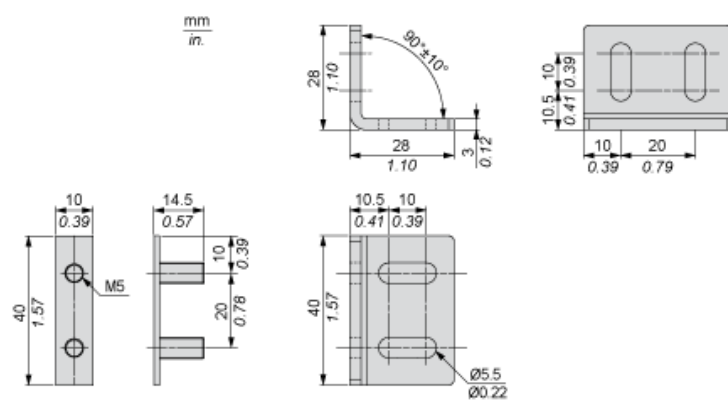
## Contractual warranty

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

## Dimensions



## Brackets Dimensions



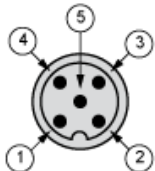
## Mounting and Clearance



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

## Wiring Diagrams

### Transmitter Connections

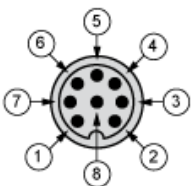


- (1) +24 Vdc
- (2) Configuration\_0
- (3) 0 Vdc
- (4) Configuration\_1
- (5) FE

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 Feedback/Restart
- (6) Configuration\_B
- (7) 0 Vdc
- (8) FE

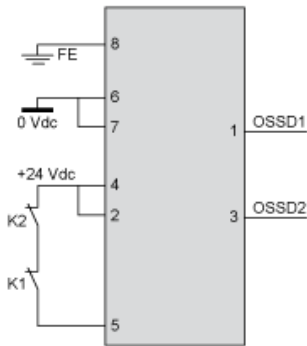
### Receiver Configurations and Operating Modes

#### Automatic Start/Restart

Without External Device Monitoring (EDM) feedback loop

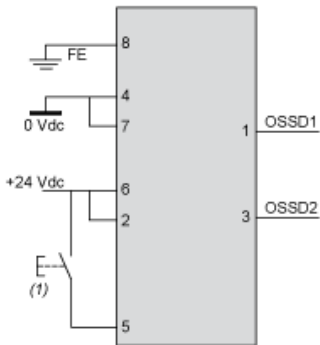


With External Device Monitoring (EDM) feedback loop



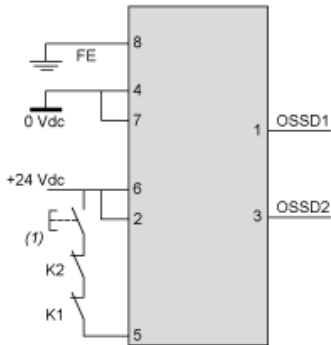
Manual Start/Restart

Without External Device Monitoring (EDM) feedback loop



(1) Restart

With External Device Monitoring (EDM) feedback loop



(1) Restart

Connecting to a Safety Interface

**Discover**  
XUSL4E14F016N by

- Characteristics
- Dimensions Drawings
- Mounting and Clearance
- Connections and Schema
- **Download & Documents**

**Download & Documents 1 to 9 of 9**

**Image of product**

Generic image for XUSL standard sensing distance. SILENT 2014-12-11 Use ▼

**Product environmental**

XUSL4E..., XUSL2E... Safety Light Curtain, Product Environmental Profile English 2014-09-08 pdf ▼

**End of life manual**

XUSL4E..., XUSL2E... Safety Light Curtain, Product End-of-Life Instructions English 2014-09-08 pdf ▼

**Application solutions**

Safety light curtains association with safety interfaces English 2016-01-08 pdf ▼

**Catalog**

Safety light curtains Preventa XUSL English 2015-05-18 pdf ▼

**User guide**

XUSL2E..., XUSL4E... Type 2 and Type 4 Safety Light Curtains, User Manual English 2015-06-25 pdf ▼

①
②

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"

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