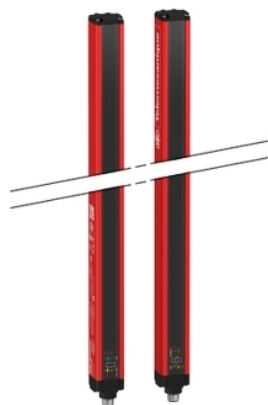


# XUSL4E14F151N

Safety light curtain type 4, Telemecanique  
Safety light curtains XUSL, XUSL Finger  
protection, Std sensing range, Hp = 1510 mm,  
R=14 mm



## Main

|                                  |                                                                             |
|----------------------------------|-----------------------------------------------------------------------------|
| Range of Product                 | Telemecanique Safety light curtains XUSL                                    |
| 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 finger protection                                                       |
| [R] Resolution                   | 0.55 in (14 mm)                                                             |
| [Sn] nominal sensing distance    | 3.28...19.69 Ft (1...6 m) by cabling<br>0.00...9.84 ft (0...3 m) by cabling |
| [Hp] Height protected            | 59.45 in (1510 mm)                                                          |
| Number of beams                  | 150                                                                         |
| Type of start / restart          | Automatic<br>Manual                                                         |
| External Device Monitoring (EDM) | Selected by wiring                                                          |

## Complementary

|                                |                                                                                                                              |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Detection system               | Transmitter-receiver system                                                                                                  |
| Response Time                  | 20 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 0.000037402 in (950 nm)                                                                                               |
| [Us] rated supply voltage      | 24 V DC +/- 20 %                                                                                                             |
| Supply                         | Power supply IEC 61496-1<br>Power supply 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 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                                                      |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products 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.

|                |                      |
|----------------|----------------------|
| Housing colour | Red RAL 3000         |
| Fixing Mode    | By fixing brackets   |
| Net Weight     | 6.17 lb(US) (2.8 kg) |
| Offer type     | Standard distance    |

## Environment

|                                       |                                                                                                                  |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Directives                            | 98/37/EEC - machinery<br>89/336/EEC - electromagnetic compatibility<br>89/655/EEC - work equipment               |
| Product Certifications                | CE<br>CULus<br>TÜV                                                                                               |
| Safety level (correctly wired)        | Type 4 IEC 61496-1<br>SIL 3 IEC 61508<br>SILCL 3 IEC 62061<br>Category 4 EN/ISO 13849-1<br>PL = e EN/ISO 13849-1 |
| Optical characteristic                | Resistance to light disturbance EN/IEC 61496-2                                                                   |
| Mission time                          | 20 year(s)                                                                                                       |
| Safety reliability data               | PFHd = 3.22E-8 1/h IEC 61508                                                                                     |
| Ambient air temperature for operation | 14...131 °F (-10...55 °C)<br>-4...131 °F (-20...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              | 3389119618274               |
| Returnability     | No                          |
| Country of origin | IT                          |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Number of Units in Package 1 | 1                      |
| Package 1 Height             | 6.10 in (15.5 cm)      |
| Package 1 Width              | 7.68 in (19.5 cm)      |
| Package 1 Length             | 63.78 in (162.0 cm)    |
| Package 1 Weight             | 11.57 lb(US) (5.25 kg) |

## Offer Sustainability

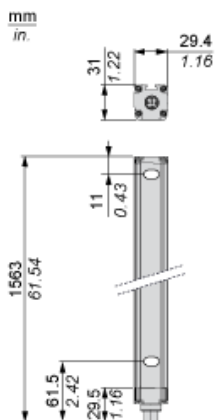
|                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 Regulation           |  <a href="#">REACH Declaration</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 |  <a href="#">Yes</a>                                                                                                                                                                                                                                                                           |

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

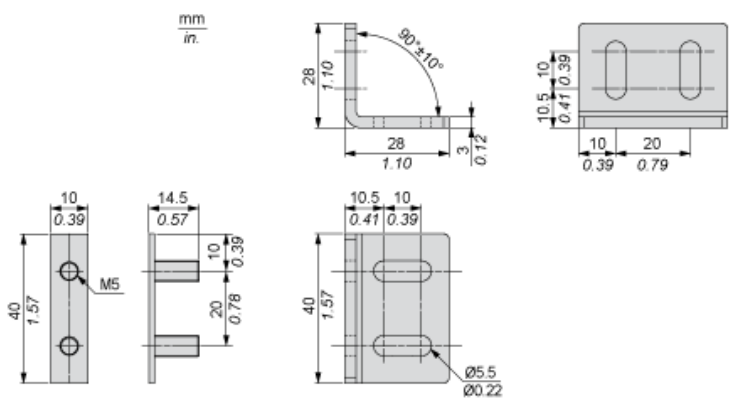
Contractual warranty

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

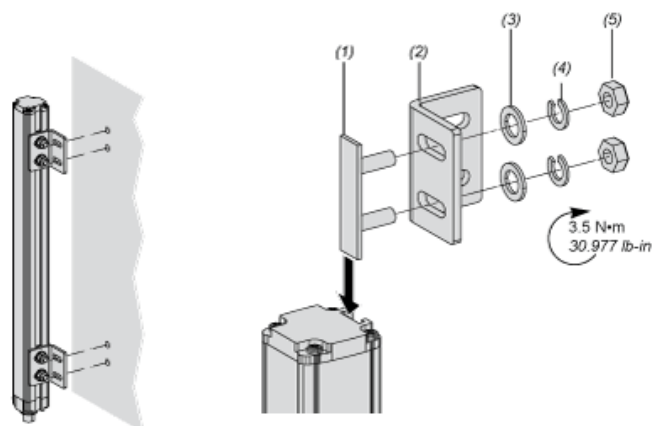
Dimensions



Brackets Dimensions



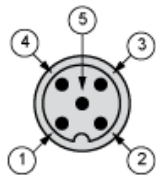
## Mounting and Clearance



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

Wiring Diagrams

Transmitter Connections

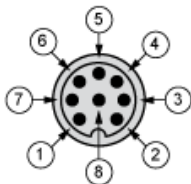


- (1) +24 Vdc
- (2) Configuration\_0
- (3) 0 Vdc
- (4) Configuration\_1
- (5) FE

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

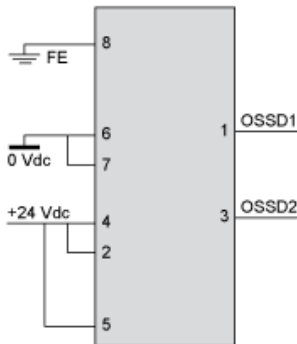


- (1) OSSD1
- (2) + 24 V
- (3) OSSD2
- (4) Configuration\_A
- (5) K1\_K2 Feeback/Restart
- (6) Configuration\_B
- (7) 0 Vdc
- (8) FE

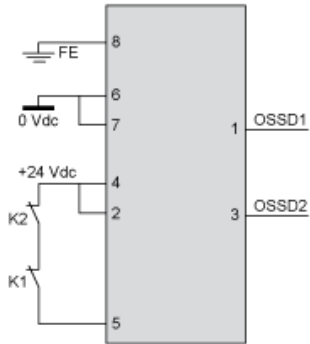
Receiver Configurations and Operating Modes

Automatic Start/Restart

Without External Device Monitoring (EDM) feedback loop

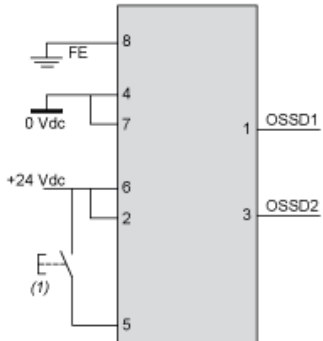


With External Device Monitoring (EDM) feedback loop



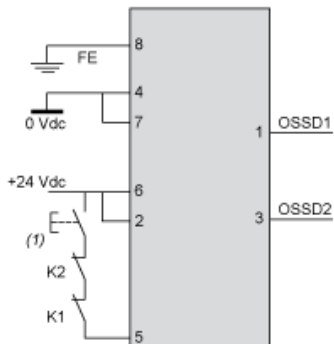
## Manual Start/Restart

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"