



Price\* : 1,180.44 GBP



## 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                   | 30 mm   |
| [Sn] nominal sensing distance    | 0...12 m by cabling<br>0...4 m by cabling               |
| [Hp] Height protected            | 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                  | 13 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 | 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  |

|                       |   |
|-----------------------|---|
|                       | 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  |
| Product weight        | 1.7 kg  |
| Offer type            | Standard distance   |

## Environment

|                                       |  |
|---------------------------------------|--|
| Directives                            | 2002/96/EC - WEEE directive<br>89/655/EEC - work equipment<br>98/37/EEC - machinery<br>89/336/EEC - electromagnetic compatibility<br>2002/95/EC - RoHS directive                       |
| Product certifications                | CE<br>CULus<br>TÜV   |
| Safety level (correctly wired)        | Type 2 conforming to IEC 61496-1<br>Category 2 conforming to EN/ISO 13849-1<br>SIL 1 conforming to IEC 61508<br>SILCL 1 conforming to IEC 62061<br>PL = c 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 = 5.19E-8 1/h conforming to IEC 61508   |
| Ambient air temperature for operation | 14...131 °F<br>-30...55 °C   |
| Ambient air temperature for storage   | -13...158 °F<br>-35...70 °C  |
| Relative humidity                     | 0...95 % without condensation  |
| IP degree of protection               | IP65<br>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   |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><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>   |

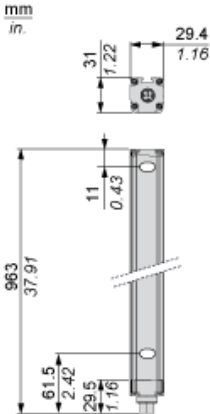
Contractual warranty

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

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Dimensions



Brackets Dimensions



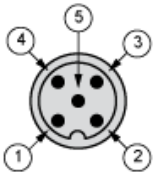
Mounting and Clearance



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

Wiring Diagrams

Transmitter Connections

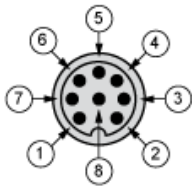


- (1) +24 Vdc
- (2) Configuration\_0
- (3) 0 Vdc
- (4) Configuration\_1
- (5) FE

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

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Receiver Configurations and Operating Modes

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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

The screenshot shows a product page for XUSL4E14F016N. On the left, a 'Discover' sidebar lists navigation options: Characteristics, Dimensions Drawings, Mounting and Clearance, Connections and Schema, and Download & Documents. A red box highlights 'Download & Documents', with a line labeled '1' pointing to it. The main content area is titled 'Download & Documents 1 to 9 of 9' and contains several document categories: 'Image of product', 'Product environmental', 'End of life manual', 'Application solutions', 'Catalog', and 'User guide'. The 'Application solutions' category is highlighted with a red box, and a line labeled '2' points to the document 'Safety light curtains association with safety interfaces' within this category.

- 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"