



## 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  |
| Minimum object diameter for detection | 1.18 in (30 mm)  |
| [Sn] nominal sensing distance         | 0...12 m by cabling<br>0...4 m by cabling                          |
| Height protected                      | 18.11 in (460 mm)  |
| Number of beams                       | 23   |
| Type of start                         | Automatic<br>Manual  |
| Control type                          | 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 ( $\lambda = 950$ 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             | Test<br>Muting through external safety module XPSLCMUT1160<br>LED display of operating modes and faults                      |
| Marking                        | CE   |
| Material                       | Casing : aluminium<br>Front panel: polycarbonate<br>End caps: polypropylene  |
| Housing colour                 | RAL 3000: red  |
| Fixing mode                    | By fixing brackets   |
| Product weight                 | 2.2 lb(US) (1 kg)  |

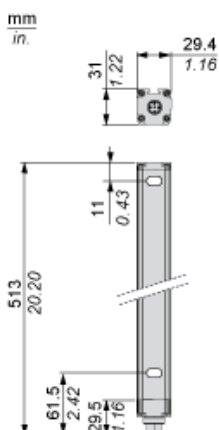
## Environment

|                                       |  |
|---------------------------------------|--|
| directives                            | 89/336/EEC - electromagnetic compatibility<br>2002/96/EC - WEEE directive<br>2002/95/EC - RoHS directive<br>98/37/EEC - machinery<br>89/655/EEC - work equipment                       |
| product certifications                | CE<br>CULus<br>TÜV   |
| safety level                          | 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 |
| environmental characteristic          | Resistance to light disturbance conforming to EN/IEC 61496-2   |
| service life                          | 20 yr  |
| safety reliability data               | PFHd = 9.47E-9 1/h conforming to IEC 61508   |
| ambient air temperature for operation | -22...131 °F (-30...55 °C)<br>14...131 °F  |
| ambient air temperature for storage   | -31...158 °F (-35...70 °C)<br>-13...158 °F   |
| 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  |

## Offer Sustainability

|  |  |
|--|--|
| Green Premium product  | Green Premium product  |
| Compliant - since 1425 - Schneider Electric declaration of conformity  | Compliant - since 1425 - Schneider Electric declaration of conformity  |
| Reference not containing SVHC above the threshold  | Reference not containing SVHC above the threshold  |
| Available  | Available  |
| Available  | Available  |
| WARNING: This product can expose you to chemicals including:   | WARNING: This product can expose you to chemicals including:   |
| Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and                                | 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. | 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>                              | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                              |

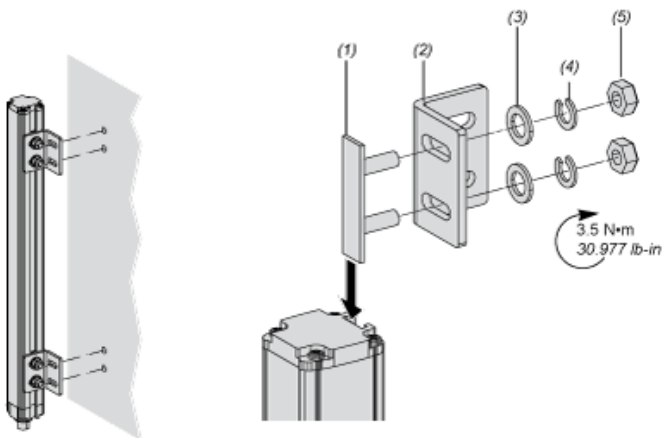
## Dimensions



## 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

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"



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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