



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 0...4 m by cabling |
| Height protected | 29.92 in (760 mm) |
| Number of beams | 31 |
| Type of start | Automatic Manual |
| Control type | Selected by wiring |

Complementary

| | |
|--------------------------------|--|
| Detection system | Transmitter-receiver system |
| Kit composition | Adjustable mounting bracket(s) 1 receiver(s) 1 transmitter(s) 1 user guide with certificate of conformity on CD-ROM |
| [EAA] effective aperture angle | +/- 2.5 ° at 3 m |
| Emission | IR LED ($\lambda = 950 \text{ nm}$) |
| [Us] rated supply voltage | 24 V DC (+/- 20 %) |
| Supply | Power supply must meet requirements of IEC 61496-1 Power supply must meet requirements of IEC 60204-1 |
| [Ie] rated operational current | 2 A |
| Current consumption | 42 mA no-load (transmitter) 83 mA no-load (receiver) 42 mA (transmitter) 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 | $\leq 0.5 \text{ V}$ |
| Local signalling | 1 multi-colour LED (transmitter) 2 dual colour LEDs (receiver) |
| Electrical connection | 1 male connector M12 5 pins (transmitter) 1 male connector M12 8 pins (receiver) |
| Function available | Test Muting through external safety module XPSLCMUT1160 LED display of operating modes and faults |
| Marking | CE |
| Material | Casing : aluminium Front panel: polycarbonate End caps: polypropylene |
| Housing colour | RAL 3000: red |
| Fixing mode | By fixing brackets |
| Product weight | 3.35 lb(US) (1.52 kg) |
| Offer type | Standard distance |

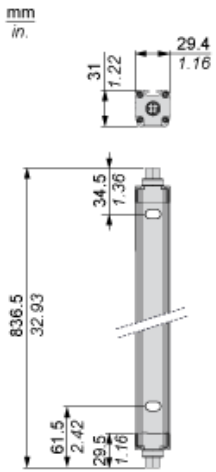
Environment

| | |
|---------------------------------------|--|
| directives | 89/336/EEC - electromagnetic compatibility 2002/96/EC - WEEE directive 2002/95/EC - RoHS directive 98/37/EEC - machinery 89/655/EEC - work equipment |
| product certifications | CE CULus TÜV |
| safety level | SIL 3 conforming to IEC 61508 Type 4 conforming to IEC 61496-1 SILCL 3 conforming to IEC 62061 Category 4 conforming to EN/ISO 13849-1 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 = 1.19E-8 1/h conforming to IEC 61508 |
| ambient air temperature for operation | -22...131 °F (-30...55 °C) 14...131 °F |
| ambient air temperature for storage | -31...158 °F (-35...70 °C) -13...158 °F |
| relative humidity | 0...95 % without condensation |
| IP degree of protection | IP65 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 |

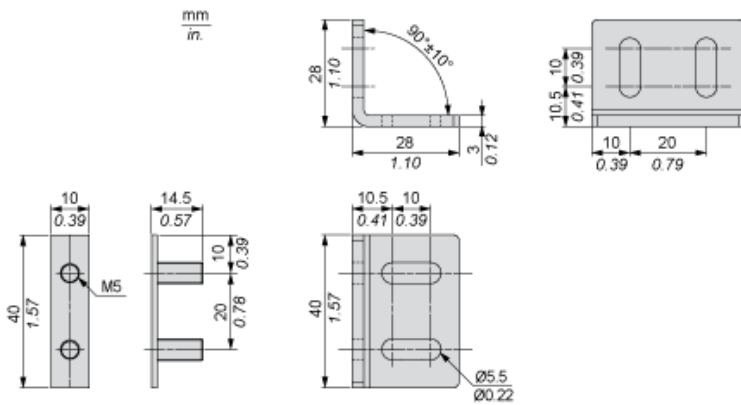
Offer Sustainability

| | |
|--|--|
| 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 www.p65warnings.ca.gov | For more information go to www.p65warnings.ca.gov |

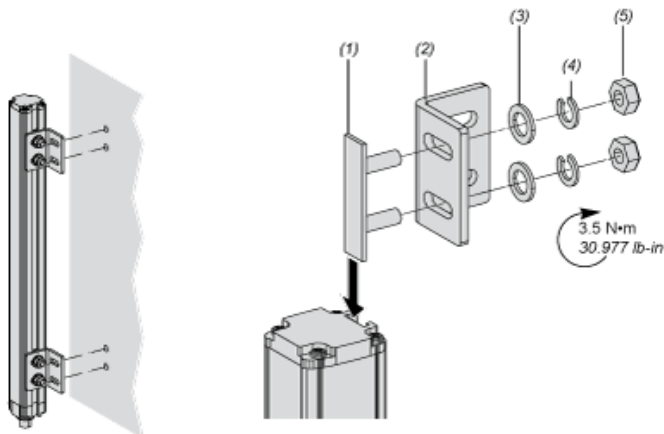
Dimensions



Brackets Dimensions



Mounting and Clearance



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

Wiring Diagrams

Transmitter Connections

Master primary connector at the bottom

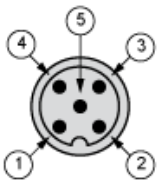


- (1) +24 Vdc
- (2) Configuration_0
- (3) 0 Vdc
- (4) Configuration_1
- (5) FE

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 |

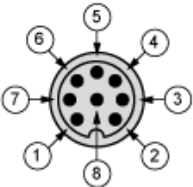
Master secondary connector at the top



- (1) +24 Vdc
- (2) Master/Slave_A
- (3) 0 Vdc
- (4) Master/Slave_B
- (5) FE

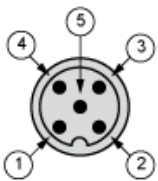
Receiver Connections

Master primary connector at the bottom



- (1) OSSD1
- (2) + 24 V
- (3) OSSD2
- (4) Configuration_A
- (5) K1_K2 Feedback/Restart
- (6) Configuration_B
- (7) 0 Vdc
- (8) FE

Master secondary connector at the top

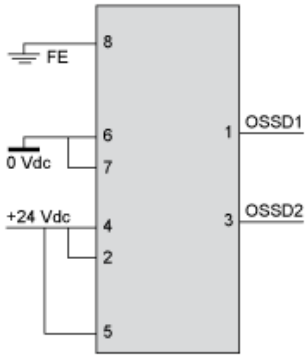


- (1) +24 Vdc
- (2) Master/Slave_A
- (3) 0 Vdc
- (4) Master/Slave_B
- (5) FE

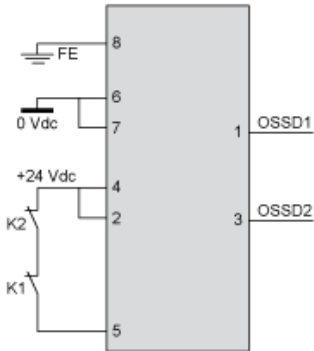
Receiver Configurations and Operating Modes

Automatic Start/Restart

Without External Device Monitoring (EDM) feedback loop

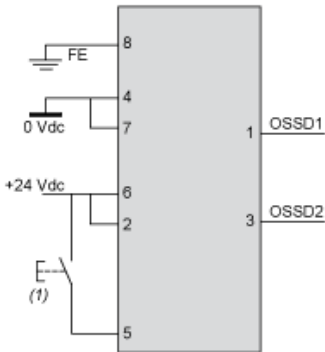


With External Device Monitoring (EDM) feedback loop



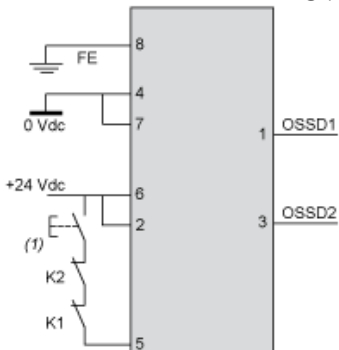
Manual Start/Restart

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 (See ▼)

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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- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
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