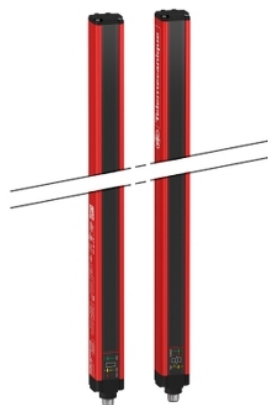


XUSL4E30H016N

Safety light curtain type 4, Telemecanique
Safety light curtains XUSL, XUSL For hand
protection, Std sensing range, Hp = 160 mm,
R=30 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 hand protection |
| [R] Resolution | 1.18 in (30 mm) |
| [Sn] nominal sensing distance | 0.00...39.37 Ft (0...12 m) by cabling 0.00...13.12 ft (0...4 m) by cabling |
| [Hp] Height protected | 6.30 in (160 mm) |
| Number of beams | 8 |
| Type of start / restart | Automatic Manual |
| External Device Monitoring (EDM) | Selected by wiring |

Complementary

| | |
|--------------------------------|--|
| Detection system | Transmitter-receiver system |
| Response Time | 4 ms |
| 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 0.000037402 in (950 nm) |
| [Us] rated supply voltage | 24 V DC +/- 20 % |
| Supply | Power supply IEC 61496-1 Power supply 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 safety outputs OSSD |
| Output voltage | 24 V |
| Output circuit type | DC |
| Maximum voltage drop | <0.5 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 | Aluminium casing Polycarbonate front panel Polypropylene end caps |

| | |
|----------------|----------------------|
| Housing colour | Red RAL 3000 |
| Fixing Mode | By fixing brackets |
| Product Weight | 0.88 lb(US) (0.4 kg) |
| Offer type | Standard distance |

Environment

| | |
|---------------------------------------|--|
| Directives | 89/336/EEC - electromagnetic compatibility 98/37/EEC - machinery 89/655/EEC - work equipment |
| Product Certifications | CE CULus TÜV |
| Safety level (correctly wired) | Type 4 IEC 61496-1 SIL 3 IEC 61508 SILCL 3 IEC 62061 Category 4 EN/ISO 13849-1 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 = 7.8E-9 1/h IEC 61508 |
| Ambient Air Temperature for Operation | 14...131 °F (-10...55 °C) -22...131 °F (-30...55 °C) |
| Ambient Air Temperature for Storage | -13...158 °F (-25...70 °C) -31...158 °F (-35...70 °C) |
| Relative Humidity | 0...95 % without condensation |
| IP degree of protection | IP65 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 | 3389119618304 |
| Returnability | No |
| Country of origin | IT |

Packing Units

| | |
|------------------------------|------------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 5.51 in (14.000 cm) |
| Package 1 Width | 7.68 in (19.500 cm) |
| Package 1 Length | 9.84 in (25.000 cm) |
| Package 1 Weight | 2.44 lb(US) (1.105 kg) |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 2 |
| Package 2 Height | 11.81 in (30.000 cm) |
| Package 2 Width | 11.81 in (30.000 cm) |
| Package 2 Length | 15.75 in (40.000 cm) |
| Package 2 Weight | 5.86 lb(US) (2.660 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 www.P65Warnings.ca.gov |
| REACH Regulation | REACH Declaration |
| REACH free of SVHC | Yes |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |

Contractual warranty

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

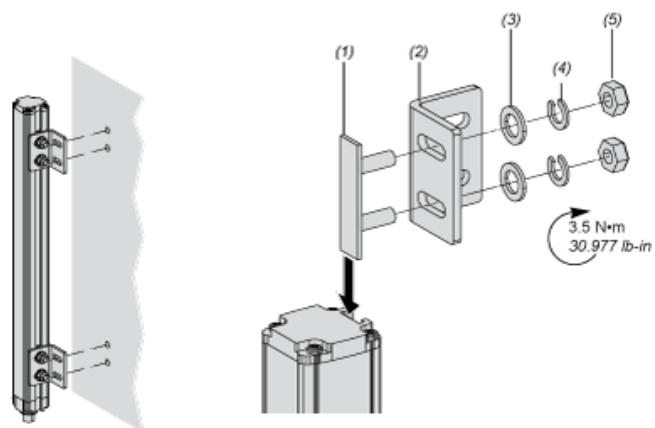
Technical drawings of three mechanical parts with dimensions in mm and inches.

Part 1 (Left): A vertical plate with a total height of 40 mm (1.57 in). It has two circular holes, each with a diameter of 10 mm (0.39 in). The distance between the centers of the holes is 15.7 mm (0.62 in). The top hole is labeled M5.

Part 2 (Middle): A horizontal plate with a total width of 14.5 mm (0.57 in). It has two rectangular holes, each with a width of 10 mm (0.39 in). The distance between the centers of the holes is 20 mm (0.78 in). The top hole is labeled M5.

Part 3 (Right): A corner bracket with a 90° ± 10° angle. The vertical leg has a height of 28 mm (1.10 in) and a thickness of 3 mm (0.12 in). The horizontal leg has a width of 28 mm (1.10 in) and a thickness of 3 mm (0.12 in). The corner radius is 10.5 mm (0.41 in). The distance from the corner to the center of the hole is 10.5 mm (0.41 in). The hole has a diameter of 10 mm (0.39 in). The distance from the hole center to the edge is 20 mm (0.79 in).

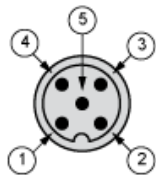
Mounting and Clearance



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

Wiring Diagrams

Transmitter Connections

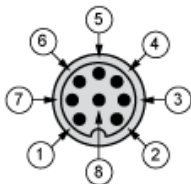


- (1) +24 Vdc
- (2) Configuration_0
- (3) 0 Vdc
- (4) Configuration_1
- (5) FE

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

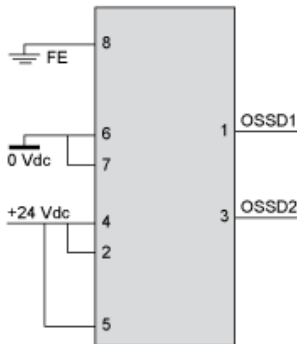


- (1) OSSD1
- (2) + 24 V
- (3) OSSD2
- (4) Configuration_A
- (5) K1_K2 Feeback/Restart
- (6) Configuration_B
- (7) 0 Vdc
- (8) FE

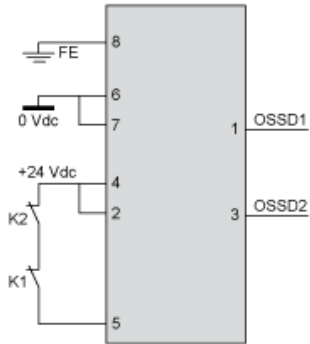
Receiver Configurations and Operating Modes

Automatic Start/Restart

Without External Device Monitoring (EDM) feedback loop

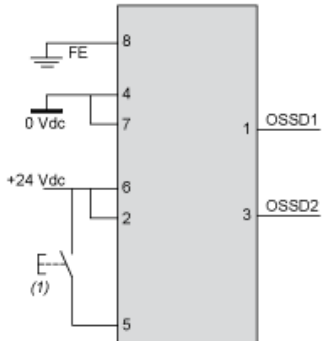


With External Device Monitoring (EDM) feedback loop



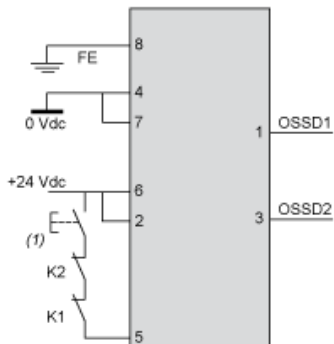
Manual Start/Restart

Without External Device Monitoring (EDM) feedback loop



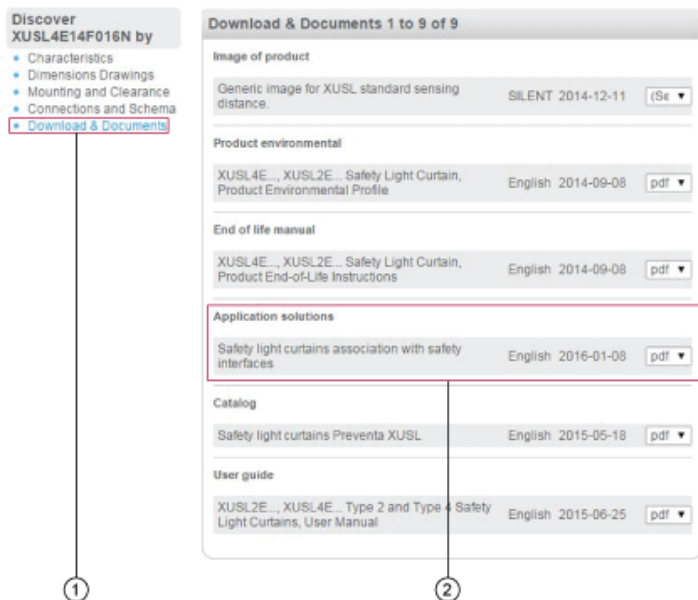
(1) Restart

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"