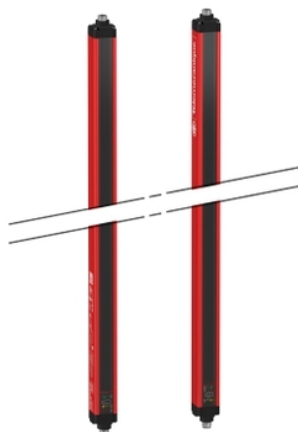


# XUSL4E30H106NM

Safety light curtain type 4, Telemecanique  
Safety light curtains XUSL, XUSL Master for  
hand protection, Hp = 1060 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<br>0.00...13.12 ft (0...4 m) by cabling |
| [Hp] Height protected            | 41.73 in (1060 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                                                                                                  |
| 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                                                      |
| Housing colour                 | Red RAL 3000                                                                                                                 |
| Fixing Mode                    | By fixing brackets                                                                                                           |

|            |                       |
|------------|-----------------------|
| Net Weight | 4.45 lb(US) (2.02 kg) |
| Offer type | Standard distance     |
| Topology   | Daisy chain master    |

## Environment

|                                       |                                                                                                                  |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Directives                            | 89/336/EEC - electromagnetic compatibility<br>89/655/EEC - work equipment<br>98/37/EEC - machinery               |
| 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 = 1.43E-8 1/h IEC 61508                                                                                     |
| Ambient Air Temperature for Operation | -22...131 °F (-30...55 °C)<br>14...131 °F (-10...55 °C)                                                          |
| Ambient Air Temperature for Storage   | -31...158 °F (-35...70 °C)<br>-13...158 °F (-25...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                  | 3389119620024               |
| Nbr. of units in pkg. | 1                           |
| Package weight(Lbs)   | 8.38 lb(US) (3.8 kg)        |
| Returnability         | No                          |
| Country of origin     | IT                          |

## Packing Units

|                        |                   |
|------------------------|-------------------|
| Unit Type of Package 1 | PCE               |
| Package 1 Height       | 5.31 in (13.5 cm) |
| Package 1 width        | 7.68 in (19.5 cm) |
| Package 1 Length       | 46.85 in (119 cm) |

## Offer Sustainability

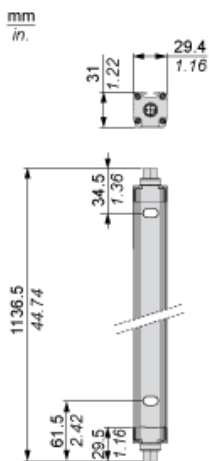
|                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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>      |

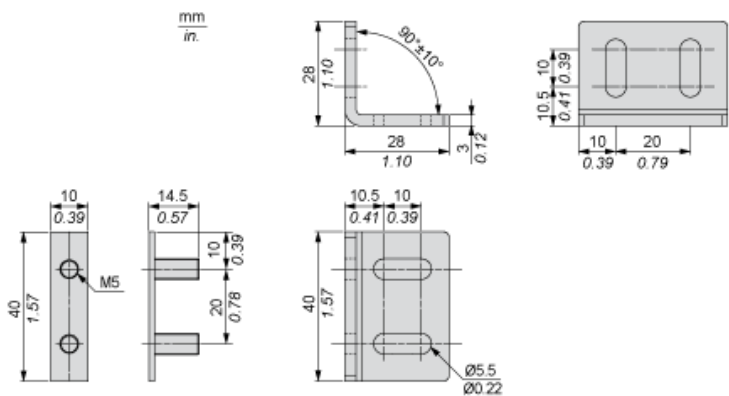
Contractual warranty

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

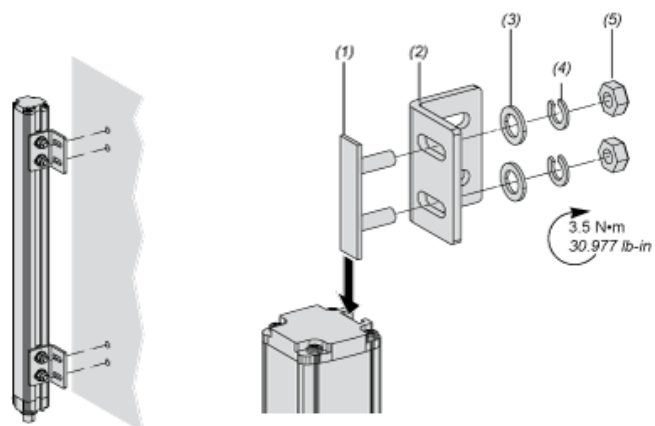
Dimensions



Brackets Dimensions



## Mounting and Clearance

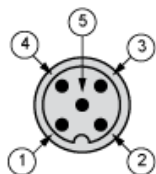


- (1) Insert
- (2) Bracket
- (3) Washer
- (4) Spring washer
- (5) Nut

## Wiring Diagrams

### Transmitter Connections

Master primary connector at the bottom

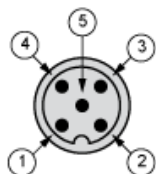


- (1) +24 Vdc
- (2) Configuration\_0
- (3) 0 Vdc
- (4) Configuration\_1
- (5) FE

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             |

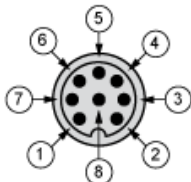
Master secondary connector at the top



- (1) +24 Vdc
- (2) Master/Slave\_A
- (3) 0 Vdc
- (4) Master/Slave\_B
- (5) FE

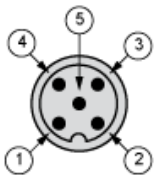
### Receiver Connections

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

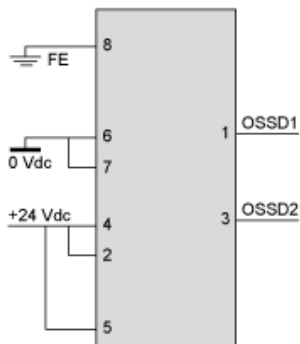


- (1) +24 Vdc
- (2) Master/Slave\_A
- (3) 0 Vdc
- (4) Master/Slave\_B
- (5) FE

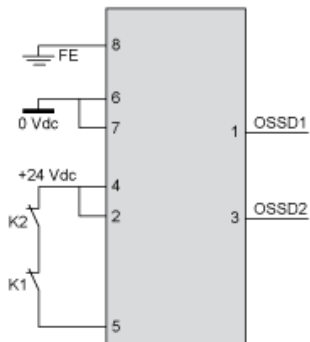
## Receiver Configurations and Operating Modes

### Automatic Start/Restart

Without External Device Monitoring (EDM) feedback loop

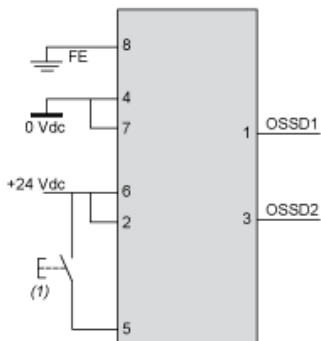


With External Device Monitoring (EDM) feedback loop



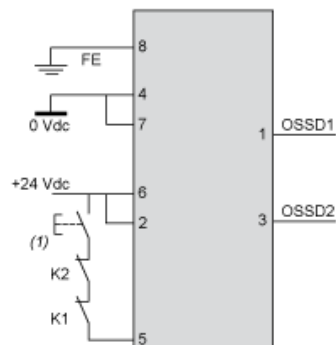
### Manual Start/Restart

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**

①

**Download & Documents 1 to 9 of 9**

**Image of product**

Generic image for XUSL standard sensing distance. SILENT 2014-12-11 (Se ▼)

**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 ▼

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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