

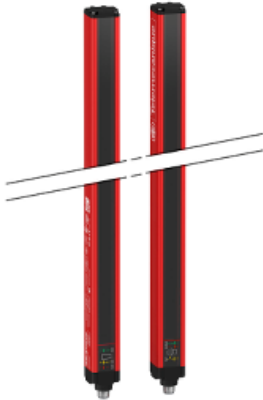
# XUSL4E30H026N

XUSL type 4 - For hand protection - Std sensing range - Hp = 260 mm, R=30mm

Product availability : Non-Stock - Not normally stocked in distribution facility



Price\*\* : 768.85 USD



## 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 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            | 10.24 in (260 mm)   |
| Number of beams                  | 13  |
| Type of start / restart          | Manual<br>Automatic   |
| External Device Monitoring (EDM) | Selected by wiring  |

## Complementary

|                                |  |
|--------------------------------|--|
| Detection system               | Transmitter-receiver system  |
| Response time                  | 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 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  |

|                       |   |
|-----------------------|---|
|                       | 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            | 1.32 lb(US) (0.6 kg)  |
| Offer type            | Standard distance   |

## Environment

|                                       |  |
|---------------------------------------|--|
| Directives                            | 89/655/EEC - work equipment<br>98/37/EEC - machinery<br>2002/96/EC - WEEE directive<br>89/336/EEC - electromagnetic compatibility<br>2002/95/EC - RoHS directive |
| Product certifications                | TÜV<br>CULus<br>CE   |
| 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 = 8.06E-9 1/h IEC 61508   |
| Ambient air temperature for operation | 14...131 °F (-10...55 °C)<br>-22...131 °F (-30...55 °C)  |
| Ambient air temperature for storage   | -13...158 °F (-25...70 °C)<br>-31...158 °F (-35...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              | 00785901978671                |
| Returnability     | No                            |
| Country of origin | IT                            |

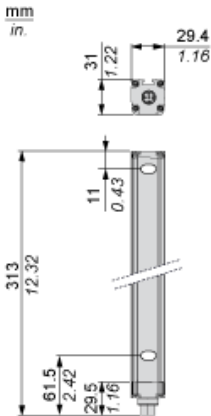
### Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| 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)<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

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

Dimensions



Brackets Dimensions



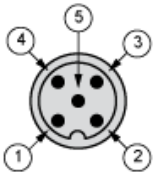
Mounting and Clearance



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

Wiring Diagrams

Transmitter Connections

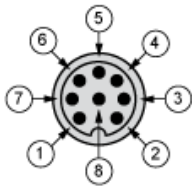


- (1) +24 Vdc
- (2) Configuration\_0
- (3) 0 Vdc
- (4) Configuration\_1
- (5) FE

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 web interface for product documentation. On the left, a 'Discover' sidebar lists categories: Characteristics, Dimensions Drawings, Mounting and Clearance, Connections and Schema, and Download & Documents. A red box highlights 'Download & Documents' with a circled '1' and a line pointing to the main content area. The main content area is titled 'Download & Documents 1 to 9 of 9' and contains several sections: 'Image of product', 'Product environmental', 'End of life manual', 'Application solutions', 'Catalog', and 'User guide'. The 'Application solutions' section is highlighted with a red box and a circled '2', with a line pointing to the 'Safety light curtains association with safety interfaces' document entry.

| Section               | Document Title  | Language | Date       | Format |
|-----------------------|---|----------|------------|--------|
| 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 ▼  |

- 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"