

# Product data sheet

# XUSL2E30H181N

Safety light curtain, type 2, hand protection, R30, protected height 1810 mm, sensing range 4–12 m

## Main

| | |
|---|---|
| Range of product | Telemecanique Safety light curtains XUSL |
| Offer type | Standard distance |
| Product or component type | Safety light curtain type 2 |
| Device short name | XUSL2E |
| Kit composition | adjustable mounting bracket(s), 1 receiver(s), 1 transmitter(s), 1 user guide with certificate of conformity on CD-ROM |
| Product specific application | For hand protection |
| ETIM classification | ETIM 9 - EC002549 - Light curtain |
| Material | Aluminium: casing, polycarbonate: front panel, polypropylene: end caps |
| Housing colour | Red RAL 3000 |
| Fixing mode | By fixing brackets |
| Safety level | Type 2 conforming to IEC 61496-1, category 2 conforming to ISO 13849-1, SIL 1 conforming to IEC 61508, SILCL 1 conforming to IEC 62061, PL = c conforming to ISO 13849-1 |
| Safety reliability data | PFHd = 8.98E-8 1/h conforming to IEC 61508 |
| Height protected | 1810 mm |
| Number of beams | 91 |
| [Sn] nominal sensing distance | 0-12 m by cabling, 0-4 m by cabling |
| Control type | Selected by wiring |
| Detection system | Transmitter-receiver system |
| Minimum object diameter for detection | 30 mm |
| Type of start | Automatic<br>manual |
| Product certifications | CE<br>cULus<br>TÜV |
| Marking | CE |
| Directives | 89/336/EEC - electromagnetic compatibility<br>89/655/EEC - work equipment<br>98/37/EEC - machinery |
| Indivisible sale quantity | 1 |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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## Complementary

| | |
|---|---|
| Electrical connection | 1 male connector M12 5 pins transmitter, 1 male connector M12 8 pins receiver |
| [Us] rated supply voltage | 24 V DC +/- 20 % |
| Supply | Power supply conforming to IEC 61496-1, power supply conforming to IEC 60204-1 |
| Voltage drop | <0.5 V |
| [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 |
| Response time | 22.5 ms |
| Emission | IR LED 950 nm |
| Local signalling | 1 multi-colour LED transmitter, 2 dual colour LEDs receiver |
| Output type | 2 safety outputs OSSD solid-state PNP (arc suppression) |
| Output circuit type | DC |
| [EAA] effective aperture angle | 5 ° at 3 m |
| Output voltage | 24 V |
| Output current limits | 0.4 A for safety outputs OSSD |
| Function available | Test, muting through external safety module XPSLCMUT1160, LED display of operating modes and faults |
| Average diagnostic coverage | DCavg = 90.3 % conforming to ISO 13849-1 |
| Service life | 20 year |
| Product weight | 3.3 kg |

## Environment

| | |
|---|---|
| Environmental characteristic | Resistance to light disturbance conforming to IEC 61496-2 |
| IP degree of protection | IP65, IP67 |
| Ambient air temperature for operation | -10…55 °C |
| Ambient air temperature for storage | -35…70 °C |
| Shock resistance | 10 gn for 16 ms conforming to IEC 61496-1 |
| Vibration resistance | 0.35 +/- 0.05 mm (f= 10-55 Hz) conforming to IEC 61496-1 |
| Relative humidity | 0-95 % without condensation |

## Offer Sustainability

| | |
|---|---|
| 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 |

## Warranty

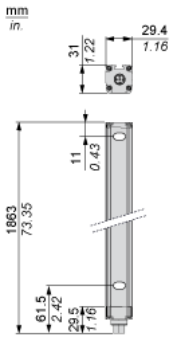
| | |
|---|---|
| Warranty | 18 months |

## Packing Units

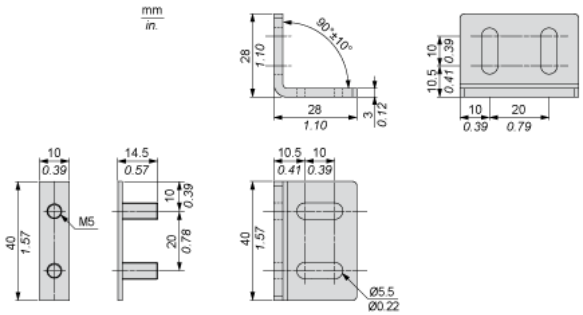
| | |
|---|---|
| Country of origin | IT (Italy) |
| Unit type of package 1 | PCE |
| Number of units in package 1 | 1 |
| New Package 1 GTIN-13 | 3666916028704 |
| Package 1 height | 14.5 cm |
| Package 1 width | 19.5 cm |
| Package 1 length | 194 cm |
| Package 1 weight | 3.3 kg |
| Unit type of package 2 | CAR |
| Number of units in package 2 | 1 |
| New Package 2 GTIN 14 | 13666916028701 |
| Package 2 height | 194 cm |
| Package 2 width | 14.5 cm |
| Package 2 length | 19.5 cm |
| Package 2 weight | 6.242 kg |
| New Package 3 GTIN 14 | 23666916028708 |

## Technical Drawings

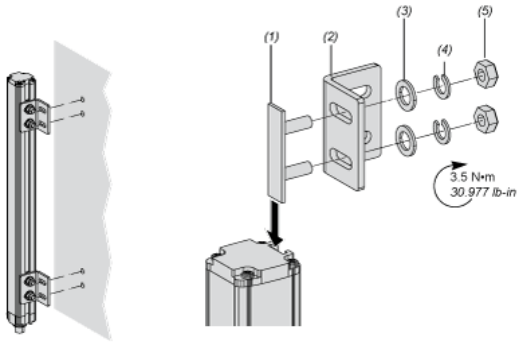
### Dimensions




### Brackets Dimensions



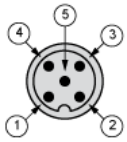
## Mounting and Clearance




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

## Wiring Diagrams

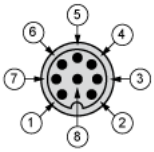
### Transmitter Connections




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

## Wiring Diagrams

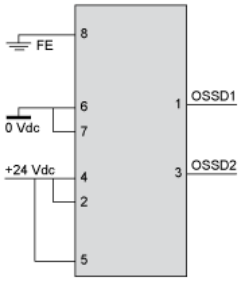
### Receiver Connections



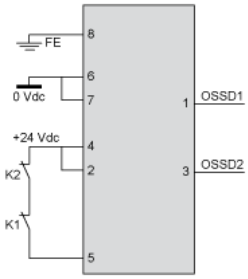

- (1) +24 Vdc
- (2) Configuration_0
- (3) 0 Vdc
- (4) Configuration_1
- (5) FE
- (1) OSSD1
- (2) + 24 V
- (3) OSSD2
- (4) Configuration_A
- (5) K1_K2 Feeback/Restart
- (6) Configuration_B
- (7) 0 Vdc
- (8) FE

## Receiver Configurations and Operating Modes

### Automatic Start/Restart

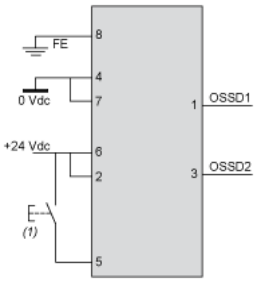



### Automatic Start/Restart



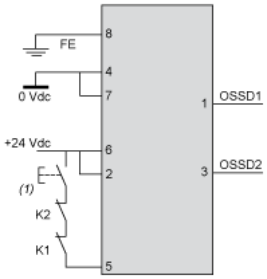

## Receiver Configurations and Operating Modes

### Manual Start/Restart




- (1) Restart

### Manual Start/Restart




- (1) Restart
- (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"