# XUSL2E30H046N

## XUSL type 2 Hand protection - Std sensing range
- Hp = 460 mm, R=30mm

### Main

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range of product</td>
<td>Preventa Safety detection</td>
</tr>
<tr>
<td>Product or component type</td>
<td>Safety light curtain type 2</td>
</tr>
<tr>
<td>Device short name</td>
<td>XUSL2E</td>
</tr>
<tr>
<td>Output type</td>
<td>2 safety outputs OSSD solid-state PNP (arc suppression)</td>
</tr>
<tr>
<td>Product specific application</td>
<td>For hand protection</td>
</tr>
<tr>
<td>[R] Resolution</td>
<td>30 mm</td>
</tr>
<tr>
<td>[Sn] nominal sensing distance</td>
<td>0…12 m by cabling</td>
</tr>
<tr>
<td></td>
<td>0…4 m by cabling</td>
</tr>
<tr>
<td>[Hp] Height protected</td>
<td>460 mm</td>
</tr>
<tr>
<td>Number of beams</td>
<td>23</td>
</tr>
<tr>
<td>Type of start / restart</td>
<td>Automatic</td>
</tr>
<tr>
<td></td>
<td>Manual</td>
</tr>
<tr>
<td>External Device Monitoring (EDM)</td>
<td>Selected by wiring</td>
</tr>
</tbody>
</table>

### Complementary

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detection system</td>
<td>Transmitter-receiver system</td>
</tr>
<tr>
<td>Response time</td>
<td>8 ms</td>
</tr>
<tr>
<td>Kit composition</td>
<td>adjustable mounting bracket(s)</td>
</tr>
<tr>
<td></td>
<td>1 receiver(s)</td>
</tr>
<tr>
<td></td>
<td>1 transmitter(s)</td>
</tr>
<tr>
<td></td>
<td>1 user guide with certificate of conformity on CD-ROM</td>
</tr>
<tr>
<td>[EAA] effective aperture angle</td>
<td>5 ° at 3 m</td>
</tr>
<tr>
<td>Emission</td>
<td>IR LED 950 nm</td>
</tr>
<tr>
<td>[Us] rated supply voltage</td>
<td>24 V DC +/- 20 %</td>
</tr>
<tr>
<td>Supply</td>
<td>Power supply conforming to IEC 61496-1</td>
</tr>
<tr>
<td></td>
<td>Power supply conforming to IEC 60204-1</td>
</tr>
<tr>
<td>[Ie] rated operational current</td>
<td>2 A</td>
</tr>
<tr>
<td>Current consumption</td>
<td>42 mA no-load transmitter</td>
</tr>
<tr>
<td></td>
<td>83 mA no-load receiver</td>
</tr>
<tr>
<td></td>
<td>42 mA transmitter</td>
</tr>
</tbody>
</table>

Disclaimer: 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.

Nov 19, 2019
### Output current limits
900 mA with maximum load receiver

### Output voltage
0.4 A for 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

### Net weight
1 kg

### Offer type
Standard distance

### Environment

#### Directives
- 98/37/EEC - machinery
- 2002/96/EC - WEEE directive
- 89/655/EEC - work equipment
- 89/336/EEC - electromagnetic compatibility
- 2002/95/EC - RoHS directive

#### Product certifications
- CULus
- TÜV
- CE

#### Safety level (correctly wired)
- Type 2 conforming to IEC 61496-1
- Category 2 conforming to EN/ISO 13849-1
- SIL 1 conforming to IEC 61508
- SILCL 1 conforming to IEC 62061
- PL = c conforming to EN/ISO 13849-1

#### Optical characteristic
- Resistance to light disturbance conforming to EN/IEC 61496-2

#### Mission time
- 20 year(s)

#### Safety reliability data
- PFHd = 3.30E-8 1/h conforming to IEC 61508

#### Ambient air temperature for operation
- 14…131 °F
- -30…55 °C

#### Ambient air temperature for storage
- -13…158 °F
- -35…70 °C

#### Relative humidity
- 0…95 % without condensation

#### IP degree of protection
- IP65
- IP67

#### 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

### Offer Sustainability

#### Sustainable offer status
Green Premium product

#### REACh Regulation
- REACh Declaration

#### 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 |
Dimensions

[Diagram showing dimensions in millimeters]
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

<table>
<thead>
<tr>
<th></th>
<th>High range option</th>
<th>Low range option</th>
<th>Transmitter in Test state</th>
<th>Forbidden wiring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pin 4 : Configuration_1</td>
<td>24 V</td>
<td>0 V</td>
<td>0 V</td>
<td>24 V</td>
</tr>
<tr>
<td>Pin 2 : Configuration_0</td>
<td>0 V</td>
<td>24 V</td>
<td>0 V</td>
<td>24 V</td>
</tr>
</tbody>
</table>

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
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"