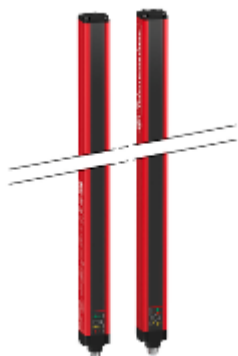


# Product Datasheet

## Characteristic

## XUSL4E30H121N

XUSL type 4 - For hand protection - Std  
sensing range - Hp = 1210 mm,  
R=30mm



## 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 (integrated arc suppression) |
| product specific application          | for hand protection                                                |
| minimum object diameter for detection | 1.18 in (30 mm)                                                    |
| [Sn] nominal sensing distance         | 0...12 m by cabling<br>0...4 m by cabling                          |
| height protected                      | 47.64 in (1210 mm)                                                 |
| number of beams                       | 61                                                                 |
| type of start                         | automatic<br>manual                                                |
| control type                          | selected by wiring                                                 |

## Complementary

|                                |                                                                                                                              |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| detection system               | transmitter-receiver system                                                                                                  |
| response time                  | 15.5 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 ( $\lambda$ = 950 nm)                                                                                                 |
| [Us] rated supply voltage      | 24 V DC (+/- 20 %)                                                                                                           |
| supply                         | power supply must meet requirements of IEC 61496-1<br>power supply must meet requirements of 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 for safety outputs OSSD                                                                                                |

|                       |                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------|
| output voltage        | 24 V                                                                                                    |
| output circuit type   | DC                                                                                                      |
| 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              | casing : aluminium<br>front panel: polycarbonate<br>end caps: polypropylene                             |
| housing colour        | RAL 3000: red                                                                                           |
| fixing mode           | by fixing brackets                                                                                      |
| product weight        | 5.07 lb(US) (2.3 kg)                                                                                    |
| offer type            | standard distance                                                                                       |

## Environment

|                                       |                                                                                                                                                                                        |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| directives                            | 89/336/EEC - electromagnetic compatibility<br>2002/96/EC - WEEE directive<br>2002/95/EC - RoHS directive<br>98/37/EEC - machinery<br>89/655/EEC - work equipment                       |
| product certifications                | CE<br>cULus<br>TÜV                                                                                                                                                                     |
| safety level                          | type 4 conforming to IEC 61496-1<br>SIL 3 conforming to IEC 61508<br>SILCL 3 conforming to IEC 62061<br>category 4 conforming to EN/ISO 13849-1<br>PL = e conforming to EN/ISO 13849-1 |
| environmental characteristic          | resistance to light disturbance conforming to EN/IEC 61496-2                                                                                                                           |
| service life                          | 20 yr                                                                                                                                                                                  |
| safety reliability data               | PFHd = 1.54E-8 1/h conforming to IEC 61508                                                                                                                                             |
| ambient air temperature for operation | 14...131 °F (-10...55 °C)<br>14...131 °F                                                                                                                                               |
| ambient air temperature for storage   | -13...158 °F (-25...70 °C)<br>-13...158 °F                                                                                                                                             |
| relative humidity                     | <= 95 % without condensation                                                                                                                                                           |
| IP degree of protection               | IP65<br>IP67                                                                                                                                                                           |
| shock resistance                      | 10 gn 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                             |
| RoHS (date code: YYWW)           | Compliant - since 1425 -                          |
| REACH                            | Reference not containing SVHC above the threshold |
| Product environmental profile    | Available                                         |
| Product end of life instructions | Available                                         |

## Contractual warranty

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