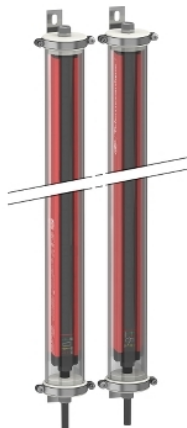


# XUSL4E14F061NWH

Safety light curtain type 4, Telemecanique  
Safety light curtains XUSL, XUSL Finger IP69K  
with Heating, Std Sensing Range, Hp = 610  
mm, R=14 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 finger protection                                   |
| [R] Resolution                   | 14 mm   |
| [Sn] nominal sensing distance    | 1...5 M by cabling<br>0...2 m by cabling                |
| [Hp] Height protected            | 610 mm  |
| Number of beams                  | 60  |
| Type of start / restart          | Automatic<br>Manual                                     |
| External Device Monitoring (EDM) | Selected by wiring                                      |

## Complementary

|  |  |
|--|--|
| Detection system                         | Transmitter-receiver system  |
| Response time                            | 9 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<br>Silicone o-ring(s)<br>1 PVC cable(s) |
| [EAA] effective aperture angle           | 2.5 ° at 3 m   |
| Emission                                 | IR LED 950 nm  |
| [Us] rated supply voltage                | 24 V DC +/- 20 %   |
| Supply                                   | Power supply conforming to IEC 61496-1<br>Power supply conforming to 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   |
| Maximum voltage drop                     | <0.5 V   |
| Maximum Heating system power consumption | 10 W   |
| 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  |
| Type of cable                            | Unshielded cable AWG 22 10 m   |
| Ohmic cable resistance (per m)           | 55.31 mOhm   |

|                    |   |
|--------------------|---|
| Function available | Test<br>Muting through external safety module XPSLCMUT1160<br>LED display of operating modes and faults<br>Anti-condensation system |
| Marking            | CE  |
| Material           | PMMA (polymethyl methacrylate): tube<br>Stainless steel AISI 316L: sealing plug<br>PVC (polyvinyl chloride): cable                  |
| Housing colour     | Red RAL 3000  |
| Fixing mode        | By fixing brackets  |
| Net weight         | 4.56 kg   |
| Offer type         | Standard distance   |
| Provided equipment | With heating system   |

## Environment

|                                       |  |
|---------------------------------------|--|
| Directives                            | 89/655/EEC - work equipment<br>89/336/EEC - electromagnetic compatibility<br>98/37/EEC - machinery   |
| Product certifications                | TÜV[RETURN]CE[RETURN]Ecolab[RETURN]cULus   |
| Safety level (correctly wired)        | 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 |
| Optical characteristic                | Resistance to light disturbance conforming to EN/IEC 61496-2   |
| Mission time                          | 20 year(s)   |
| Safety reliability data               | PFHd = 1.06E-8 1/h conforming to IEC 61508   |
| Ambient air temperature for operation | -30...55 °C<br>-13...131 °F  |
| Ambient air temperature for storage   | -30...70 °C<br>-13...158 °F  |
| Relative humidity                     | 0...95 % without condensation  |
| IP degree of protection               | IP69K  |
| 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   |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 13.5 cm  |
| Package 1 Width              | 19.5 cm  |
| Package 1 Length             | 70.0 cm  |
| Package 1 Weight             | 5.566 kg |

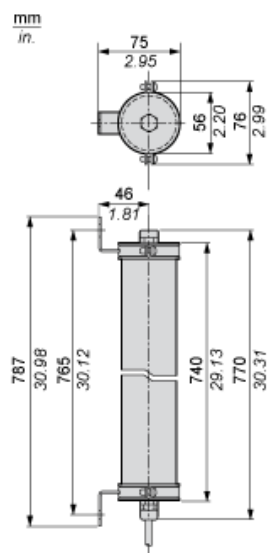
## Offer Sustainability

|  |   |
|--|---|
| Sustainable offer status                   | Green Premium product   |
| Toxic heavy metal free                     | Yes   |
| 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> |
| For all Reach Rohs enquiries contact us at | <a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>  |

## Contractual warranty

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

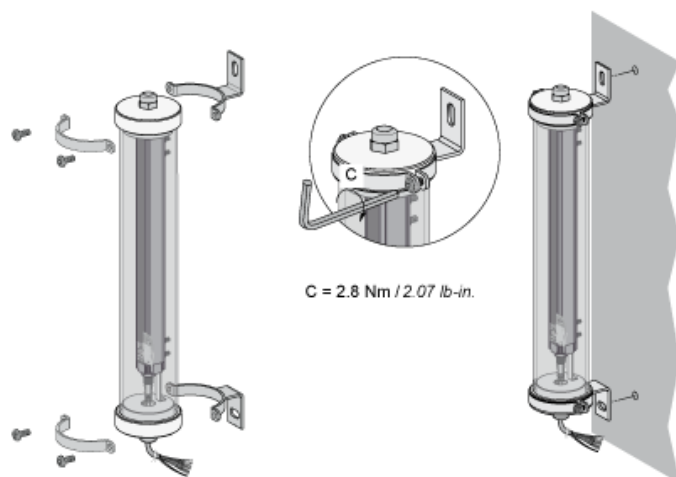
## Dimensions



---

Mounting and Clearance

---



---

## Wiring Diagrams

---

### Transmitter Pre-wired

Brown: +24 Vdc

White: Configuration\_0

Blue: 0 Vdc

Green or Black: Configuration\_1

Grey: Functional Earth

Yellow: 0 Vdc (Heating system)

Red: +24 Vac/Vdc (Heating system)

Pink: Not connected

### Receiver pre-wired

White: Output signal switching device 1

Brown: +24 Vdc

Green: Output signal switching device 2

Yellow: Configuration\_A

Grey: K1\_K2 Feedback/Restart

Pink: Configuration\_B

Blue: 0 Vdc

Yellow/Green (or Red): Functional Earth

Black: 0 Vdc (Heating system)

Violet: 24 Vac/Vdc (Heating system)

For configuration\_A and configuration\_B, please refer to receiver configuration and operating modes

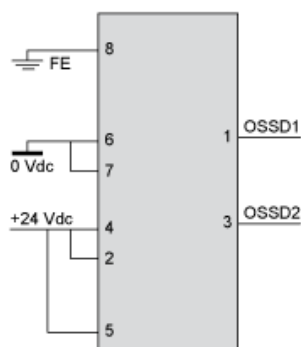
---

## Receiver Configurations and Operating Modes

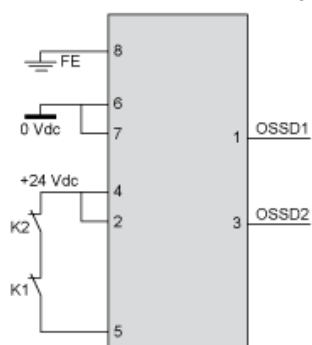
---

### 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



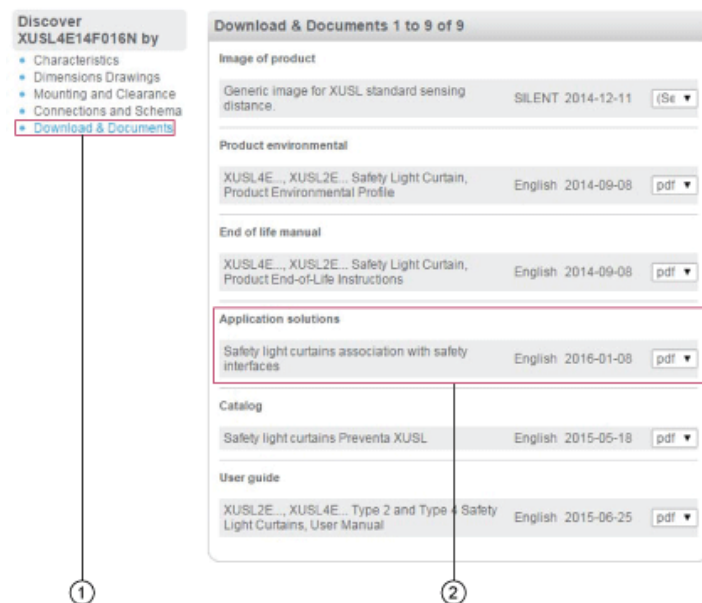
(1) Restart

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"