Product data sheet Characteristics

XUSL4E30H061LWH

XUSL type 4 Hand IP69K with Heating - Long Sensing Range - Hp = 610 mm, R=30mm





| 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 hand protection |
| [R] Resolution | 30 mm |
| [Sn] nominal sensing distance | 317 M by cabling 08 m by cabling |
| [Hp] Height protected | 610 mm |
| Number of beams | 31 |
| Type of start / restart | Automatic Manual |
| External Device Monitoring (EDM) | Selected by wiring |

Complementary

| Complementary | |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Detection system | Transmitter-receiver system |
| Response time | 9 ms |
| Kit composition | Adjustable mounting bracket(s) 1 receiver(s) 1 transmitter(s) 1 user guide with certificate of conformity on CD-ROM Silicone o-ring(s) 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 Power supply conforming to IEC 60204-1 |
| [le] 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 |
| 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 2 dual colour LEDs receiver |
| Electrical connection | 1 male connector M12 5 pins transmitter 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 Muting through external safety module XPSLCMUT1160 LED display of operating modes and faults Anti-condensation system |



| Marking | CE | |
|--------------------|--------------------------------------------------------------------------------------------------------------------|--|
| Material | PMMA (polymethyl methacrylate): tube Stainless steel AISI 316L: sealing plug PVC (polyvinyl chloride): cable | |
| Housing colour | Red RAL 3000 | |
| Fixing mode | By fixing brackets | |
| Net weight | 4.56 kg | |
| Offer type | Long distance | |
| Provided equipment | With heating system | |

Environment

| Linviolinent | | |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Directives | 2002/96/EC - WEEE directive 89/336/EEC - electromagnetic compatibility 2002/95/EC - RoHS directive 98/37/EEC - machinery 89/655/EEC - work equipment | |
| Product certifications | CE CULus Ecolab TÜV | |
| Safety level (correctly wired) | Type 4 conforming to IEC 61496-1 SIL 3 conforming to IEC 61508 SILCL 3 conforming to IEC 62061 Category 4 conforming to EN/ISO 13849-1 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 | -3055 °C -2555 °C | |
| Ambient air temperature for storage | -3070 °C -2570 °C | |
| Relative humidity | 095 % 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= 1055 Hz) conforming to IEC 61496-1 | |
| | | |

Packing Units

| U | | |
|------------------------------|----------|--|
| Unit Type of Package 1 | PCE | |
| Number of Units in Package 1 | 1 | |
| Package 1 Weight | 5.566 kg | |
| Package 1 Height | 13.5 cm | |
| Package 1 width | 19.5 cm | |
| Package 1 Length | 70 cm | |
| | | |

Offer Sustainability

| Sustainable offer status | Green Premium product | |
|----------------------------|----------------------------------------------------------------------------------|--|
| REACh Regulation | REACh Declaration | |
| REACh free of SVHC | Yes | |
| 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 | ₫ ² Yes | |
| Environmental Disclosure | Product Environmental Profile | |
| Circularity Profile | End of Life Information | |



Contractual warranty Warranty

18 months

Product data sheet Dimensions Drawings

XUSL4E30H061LWH

Dimensions





Product data sheet Mounting and Clearance

XUSL4E30H061LWH

Mounting and Clearance



XUSL4E30H061LWH

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

| Discover XUSL4E14F016N by | Download & Documents 1 to 9 of 9 | | |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------|-------|
| Characteristics Dimensions Drawings | Image of product | | |
| Outherstors Drawings Mounting and Clearance Connections and Schema Download & Documents | Generic image for XUSL standard sensing distance. | SILENT 2014-12-11 | (St ¥ |
| | 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 🔻 |
| | | | |
| | (2) | | |

- 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"