Product datasheet Characteristics

XUSL4E14F031NWC

XUSL type 4 Finger IP69K w/o Heating - Std Sensing Range - Hp = 310mm, R=14mm



Main

| 77 | | |
|---------------------------------------|--|--|
| | | |
| | | |
| 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 finger protection | |
| Minimum object diameter for detection | 14 mm | |
| [Sn] nominal sensing distance | 15 m by cabling | |
| | 02 m by cabling | |
| Height protected | 310 mm | |
| Number of beams | 30 | |
| Type of start | Manual | |
| | Automatic | |
| Control type | Selected by wiring | |
| | | |
| Complementary | | |
| - complementary | | |

Complementary

| Detection system | Transmitter-receiver system | |
|--------------------------------|---|-----------|
| Response time | 5.5 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 | <u></u> 5 |
| Emission | IR LED (λ = 950 nm) | tation—— |
| [Us] rated supply voltage | 24 V DC (+/- 20 %) | |
| Supply | Power supply must meet requirements of IEC 61496-1 Power supply must meet requirements of IEC 60204-1 | in Soo |
| [le] rated operational current | 2 A | E |
| Current consumption | 42 mA no-load (transmitter) | oiscame |

| | 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 | |
| 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) | |
| Type of cable | AWG 22 unshielded cable of 10 m | |
| Ohmic cable resistance | 55.31 mOhm | |
| Function available | Muting through external safety module XPSLCMUT1160 LED display of operating modes and faults Anti-condensation system Test | |
| Marking | CE | |
| Material | Tube : PMMA (polymethyl methacrylate) Sealing plug : stainless steel AISI 316L Cable : PVC (polyvinyl chloride) | |
| Housing colour | RAL 3000 : red | |
| Fixing mode | By fixing brackets | |
| Product weight | 3.56 kg | |
| Offer type | Standard distance | |
| Provided equipment | Without heating system | |

Environment

| LITVITOTITICITE | | |
|---------------------------------------|--|--|
| Directives | 98/37/EEC - machinery 2002/96/EC - WEEE directive 89/336/EEC - electromagnetic compatibility 2002/95/EC - RoHS directive 89/655/EEC - work equipment | |
| Product certifications | CULus CE TÜV | |
| Safety level | SIL 3 conforming to IEC 61508 Type 4 conforming to IEC 61496-1 SILCL 3 conforming to IEC 62061 Category 4 conforming to EN/ISO 13849-1 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 = 8.20E-9 1/h conforming to IEC 61508 | |
| Ambient air temperature for operation | -1055 °C 14131 °F | |
| Ambient air temperature for storage | -2570 °C -13158 °F | |
| Relative humidity | <= 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 = 1055 Hz) conforming to IEC 61496-1 | |
| | | |

Offer Sustainability

| Sustainable offer status | Green Premium product | |
|--------------------------|---|--|
| RoHS (date code: YYWW) | Compliant - since 1425 - Schneider Electric declaration of conformity | |
| | Schneider Electric declaration of conformity | |
| REACh | Reference not containing SVHC above the threshold | |

Reference not containing SVHC above the threshold

| Product environmental profile | Available | |
|----------------------------------|-----------------------|--|
| | Product environmental | |
| Product end of life instructions | Available | |
| | ☑ End of life manual | |

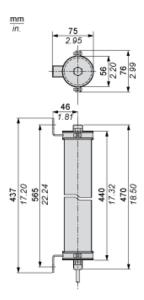
Contractual warranty

| Warranty period | 18 month | |
|-----------------|----------|--|
| warranty penou | 18 month | |

Product datasheet Dimensions Drawings

XUSL4E14F031NWC

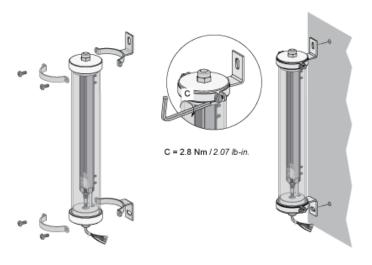
Dimensions



Product datasheet Mounting and Clearance

XUSL4E14F031NWC

Mounting and Clearance



Product datasheet Connections and Schema

XUSL4E14F031NWC

Wiring Diagrams

Transmitter Pre-wired

Brown: +24 Vdc White: Configuration_0

Blue: 0 Vdc

Green or Black: Configuration_1

Grey: Functional Earth 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

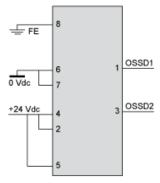
For configuration_A and configuration_B,please refer to receiver configuration and operating modes

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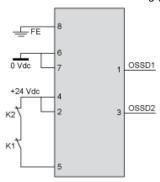
Receiver Configurations and Operating Modes

Automatic Start/Restart

Without External Device Monitoring (EDM) feedback loop

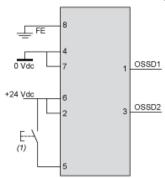


With External Device Monitoring (EDM) feedback loop



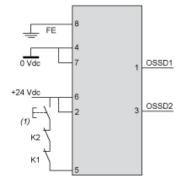
Manual Start/Restart

Without External Device Monitoring (EDM) feedback loop



(1) Restart

With External Device Monitoring (EDM) feedback loop



(1) Restart

Product datasheet Connections and Schema

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Connecting to a Safety Interface



- 1: Click on Download & Documents
- 2: Click on System user guide

To have all connection schematics concerning our safety module, select "download and document" and download the file "Safety light curtains association with safety interfaces"