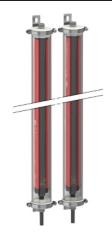
Product data sheet Characteristics

XUSL4E14F031NWC

Safety light curtain type 4, Telemecanique Safety light curtains XUSL, XUSL Finger IP69K w/o Heating, Std Sensing Range, Hp = 310 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	15 M by cabling 02 m by cabling
[Hp] Height protected	310 mm
Number of beams	30
Type of start / restart	Automatic Manual
External Device Monitoring (EDM)	Selected by wiring

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
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
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

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not infended as a substitute for and is not to be used for determining suitability of trelespit products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, avaluation and testing of the products with respect to the relevant Neither TMSS Holding nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

CE	
PMMA (polymethyl methacrylate): tube Stainless steel AISI 316L: sealing plug PVC (polyvinyl chloride): cable	
Red RAL 3000	
By fixing brackets	
3.56 kg	
Standard distance	
Without heating system	
-	PMMA (polymethyl methacrylate): tube Stainless steel AISI 316L: sealing plug PVC (polyvinyl chloride): cable Red RAL 3000 By fixing brackets 3.56 kg Standard distance

Environment

Directives	89/655/EEC - work equipment 89/336/EEC - electromagnetic compatibility 98/37/EEC - machinery
Product certifications	Ecolab[RETURN]CE[RETURN]cULus[RETURN]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 = 8.20E-9 1/h conforming to IEC 61508
Ambient air temperature for operation	-2055 °C 14131 °F
Ambient air temperature for storage	-13158 °F -3070 °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

PCE	
1	
13.5 cm	
19.5 cm	
40.0 cm	
4.343 kg	
-	1 13.5 cm 19.5 cm 40.0 cm

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 www.P65Warnings.ca.gov
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

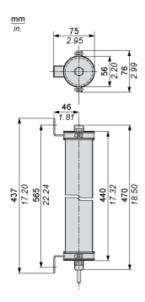
Warranty	18 months	



Product data sheet Dimensions Drawings

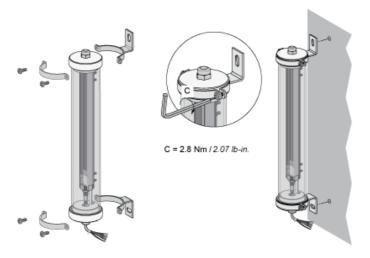
XUSL4E14F031NWC

Dimensions



XUSL4E14F031NWC

Mounting and Clearance



Product data sheet 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

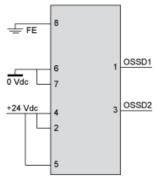
Yellow/Green (or Red): Functional Earth

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

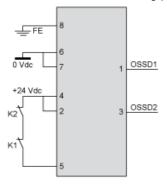
Receiver Configurations and Operating Modes

Automatic Start/Restart

Without External Device Monitoring (EDM) feedback loop

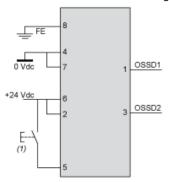


With External Device Monitoring (EDM) feedback loop



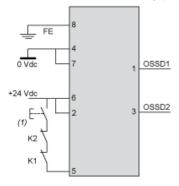
Manual Start/Restart

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"

