XUSL2E30H046NWC

XUSL type 2 IP69K Hand protection w/o
Heating - Std range - Hp = 460mm, R=30mm

Green Premium™
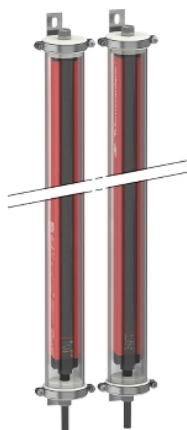
Main

Range of product	Telemecanique Safety light curtains XUSL
Product or component type	Safety light curtain type 2
Device short name	XUSL2E
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	3…10 M by cabling 0…3 m by cabling
[Hp] Height protected	460 mm
Number of beams	23
Type of start / restart	Manual Automatic
External Device Monitoring (EDM)	Selected by wiring

Complementary

Detection system	Transmitter-receiver system
Response time	8 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	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
[Ie] 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
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	4.05 kg
Offer type	Standard distance
Provided equipment	Without heating system

Environment

Directives	89/655/EEC - work equipment
	89/336/EEC - electromagnetic compatibility
	98/37/EEC - machinery
Product certifications	Ecolab[RETURN]cULus[RETURN]TÜV[RETURN]CE
Safety level (correctly wired)	Type 2 conforming to IEC 61496-1
	Category 2 conforming to EN/ISO 13849-1
	SIL 1 conforming to IEC 61508
	SILCL 1 conforming to IEC 62061
	PL = c 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 = 3.30E-8 1/h conforming to IEC 61508
Ambient air temperature for operation	-10…55 °C
	-30…55 °C
Ambient air temperature for storage	-25…70 °C
	-30…70 °C
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	55.0 cm
Package 1 Weight	4.951 kg

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	Yes

Contractual warranty

Warranty	18 months

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Dimensions
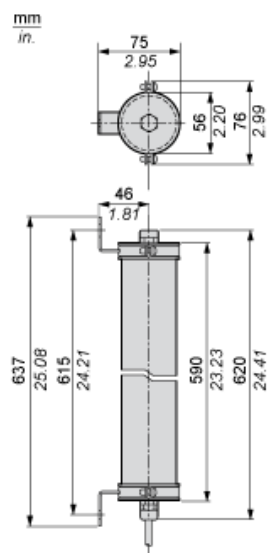
Mounting and Clearance

C = 2.8 Nm / 2.07 lb-in.
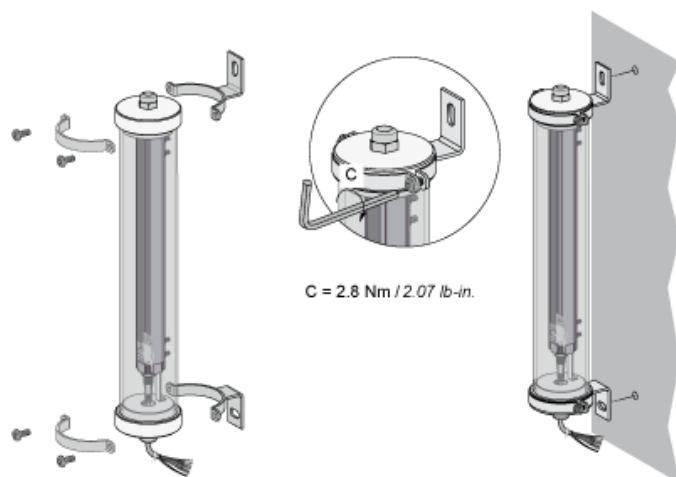
Wiring Diagrams

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

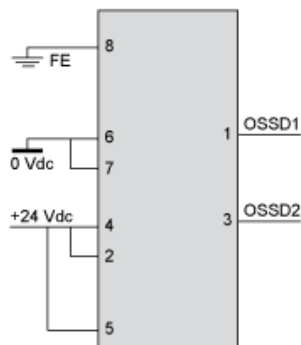Grey: K1_K2 Feedback/Restart

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
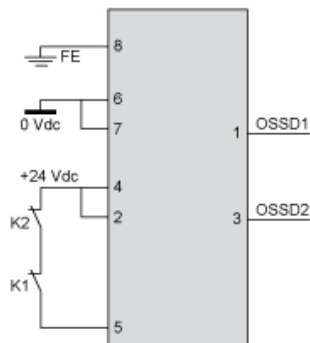
Receiver Configurations and Operating Modes

Automatic Start/Restart

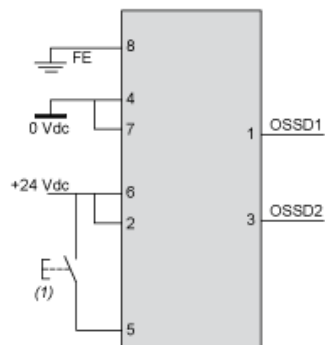Without External Device Monitoring (EDM) feedback loop

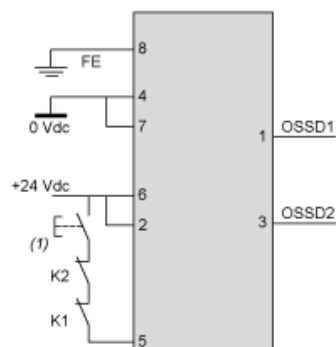With External Device Monitoring (EDM) feedback loop

Manual Start/Restart

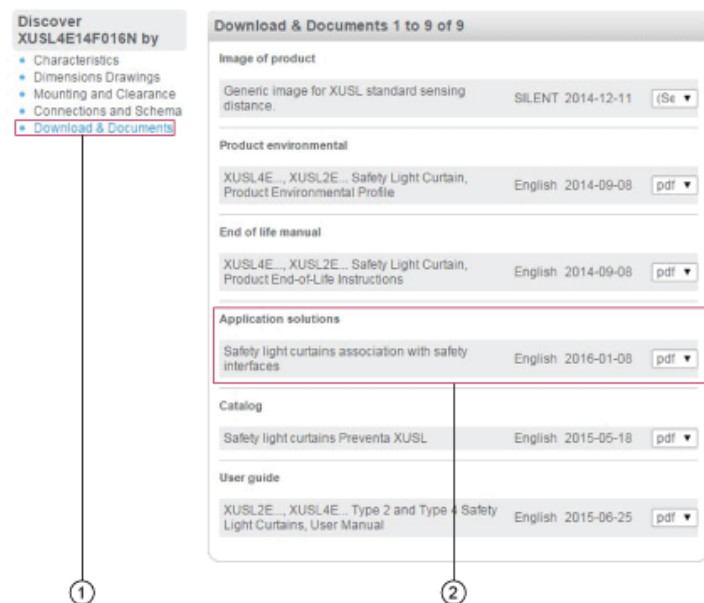Without External Device Monitoring (EDM) feedback loop

(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"

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