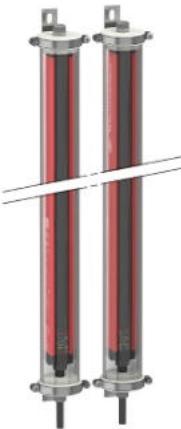


Safety light curtain type 4, Telemecanique
Safety light curtains XUSL, XUSL Body IP69K
w/o Heating, Long Sensing Range 510 mm



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)
[Sn] nominal sensing distance	3...17 M by cabling 0...8 m by cabling
[Hp] Height protected	510 mm
Number of beams	2
Space between beams	500 mm
Type of start / restart	Manual Automatic
External Device Monitoring (EDM)	Selected by wiring

Complementary

Detection system	Transmitter-receiver system
Response time	2.5 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
[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	3.81 kg
Offer type	Long distance
Provided equipment	Without heating system

Environment

Directives	98/37/EEC - machinery 89/655/EEC - work equipment 89/336/EEC - electromagnetic compatibility
Product certifications	cULus[RETURN]Ecolab[RETURN]TÜV[RETURN]CE
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 = 6.89E-9 1/h conforming to IEC 61508
Ambient air temperature for operation	-20...55 °C 14...131 °F
Ambient air temperature for storage	-30...70 °C -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	60.0 cm
Package 1 Weight	4.842 kg

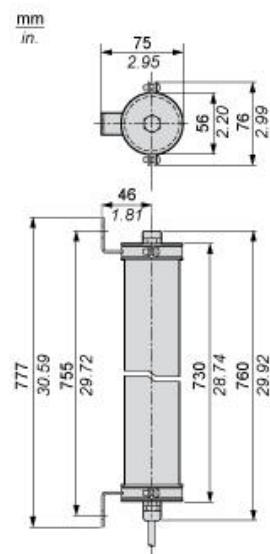
Offer Sustainability

Sustainable offer status	Green Premium product
Toxic heavy metal free	Yes
California proposition 65	WARNING: This product can expose you to chemicals including: Diisobutyl 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

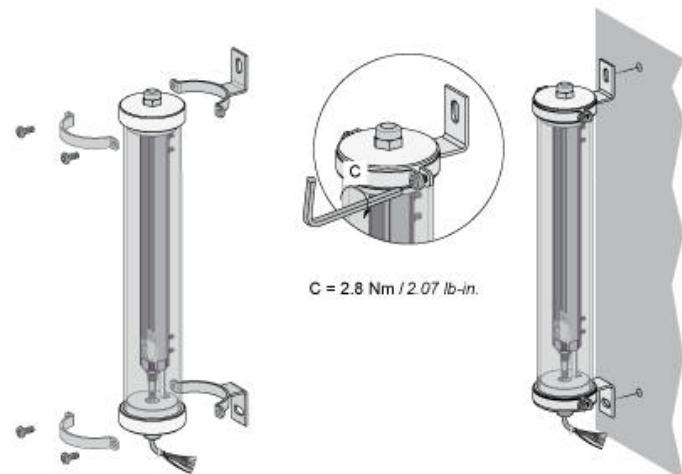
Contractual warranty

Warranty	18 months
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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
Pink: Not connected

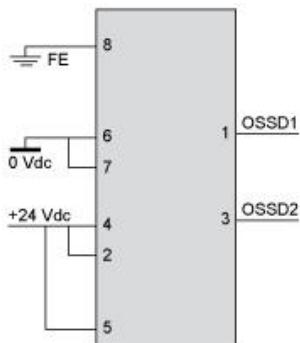
Receiver pre-wired

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

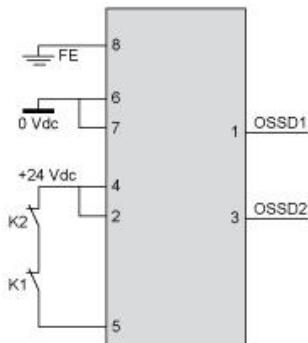
Receiver Configurations and Operating Modes

Automatic Start/Restart

Without External Device Monitoring (EDM) feedback loop

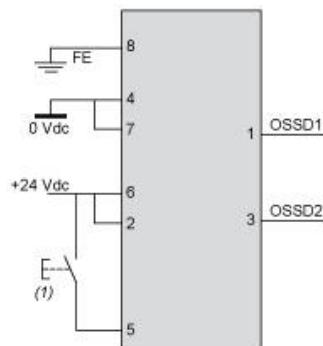


With External Device Monitoring (EDM) feedback loop



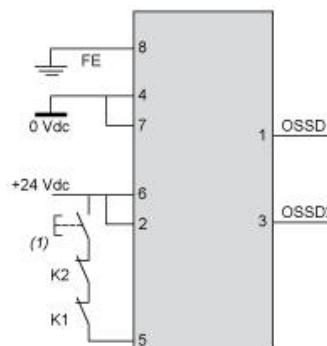
Manual Start/Restart

Without External Device Monitoring (EDM) feedback loop



(1) Restart

With External Device Monitoring (EDM) feedback loop



(1) Restart

Connecting to a Safety Interface

Discover XUSL4E14F016N by

- Characteristics
- Dimensions Drawings
- Mounting and Clearance
- Connections and Schema
- Download & Documents

Download & Documents 1 to 9 of 9

Image of product

Generic image for XUSL standard sensing distance. SILENT 2014-12-11 (See ▾)

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 ▾

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"