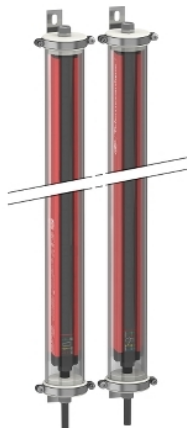# Product data sheet
Characteristics

XUSL4E4BB091LWH

Safety light curtain type 4, Telemecanique Safety light curtains XUSL, XUSL Body IP69K with Heating, Long Sensing Range Beams, Hp = 910 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 body protection
[Sn] nominal sensing distance	3…17 M by cabling 0…8 m by cabling
[Hp] Height protected	910 mm
Number of beams	4
Space between beams	300 mm
Type of start / restart	Automatic Manual
External Device Monitoring (EDM)	Selected by wiring

Complementary

Detection system	Transmitter-receiver system
Response time	3 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
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	4.66 kg
Offer type	Long distance
Provided equipment	With heating system

Environment

Directives	89/655/EEC - work equipment
	89/336/EEC - electromagnetic compatibility
	98/37/EEC - machinery
Product certifications	CE[RETURN]cULus[RETURN]Ecolab[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 = 8.21E-9 1/h conforming to IEC 61508
Ambient air temperature for operation	-30…55 °C
	-13…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	113.0 cm
Package 1 Weight	6.051 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: 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

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Dimensions

Mounting and Clearance

C = 2.8 Nm / 2.07 lb-in.

Telemecanique
Sensors
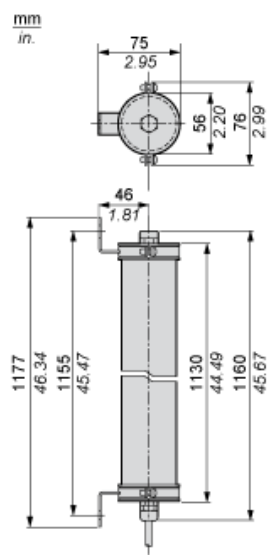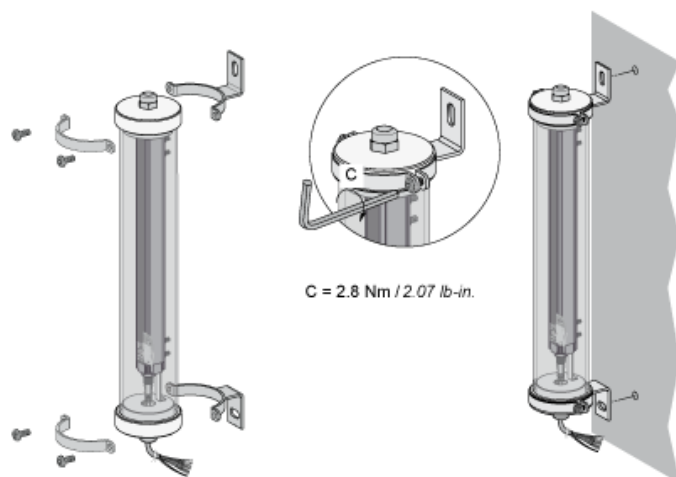
Wiring Diagrams

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

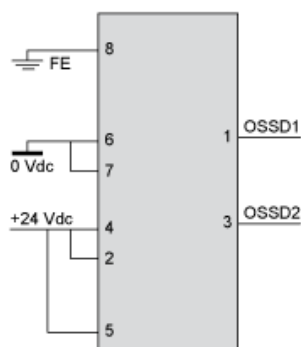Yellow/Green (or Red): Functional Earth

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
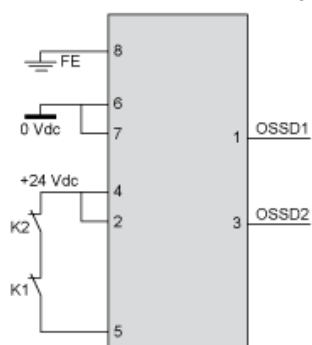
Receiver Configurations and Operating Modes

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
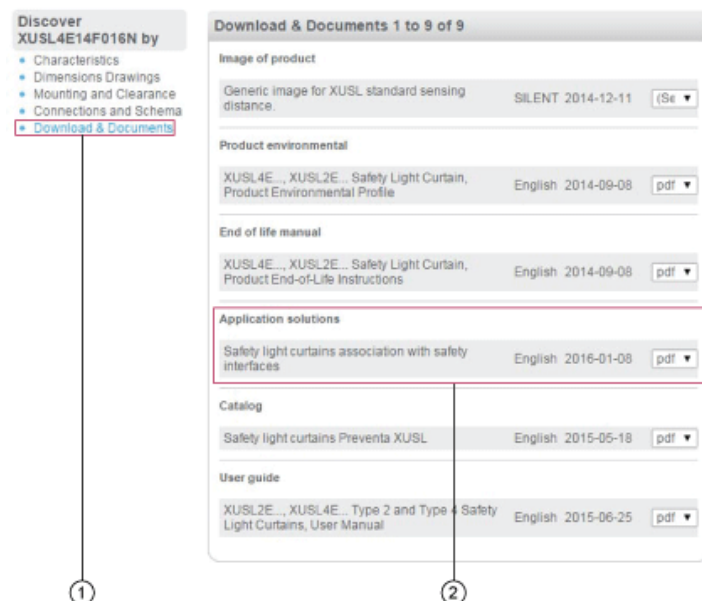

(1)   Restart

With External Device Monitoring (EDM) feedback loop

(1)   Restart

Connecting to a Safety Interface

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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