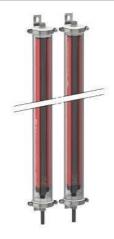
XUSL4E4BB091LWC

XUSL type 4 Body IP69K w/o Heating - Long Sensing Range 4 Beams, Hp = 910 mm





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 body protection
[Sn] nominal sensing distance	317 m by cabling 08 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

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 (λ = 950 nm)
[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
[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
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 (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	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	4.66 kg	
Offer type	Long distance	
Provided equipment	Without heating system	

Environment

Directives	89/336/EEC - electromagnetic compatibility 2002/96/EC - WEEE directive 2002/95/EC - RoHS directive 98/37/EEC - machinery 89/655/EEC - work equipment
Product certifications	CE CULus 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 yr
Safety reliability data	PFHd = 8.21E-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

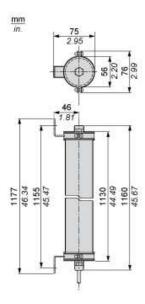
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1425 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available 🖺 Download Product Environmental
Product end of life instructions	Available 🖺 Download End Of Life Manual



Product data sheet Dimensions Drawings

XUSL4E4BB091LWC

Dimensions



XUSL4E4BB091LWC

Mounting and Clearance



Product data sheet Connections and Schema

XUSL4E4BB091LWC

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

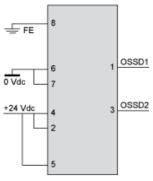
Yellow/Green (or Red): Functional Earth

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

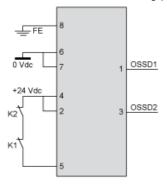
Receiver Configurations and Operating Modes

Automatic Start/Restart

Without External Device Monitoring (EDM) feedback loop

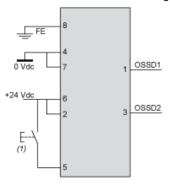


With External Device Monitoring (EDM) feedback loop



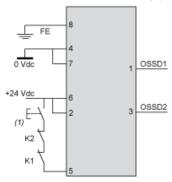
Manual Start/Restart

Without External Device Monitoring (EDM) feedback loop



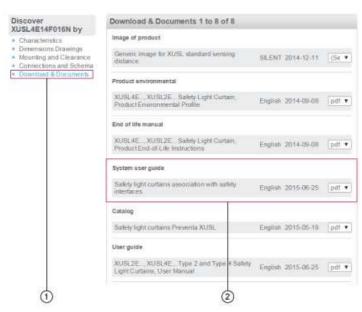
(1) Restart

With External Device Monitoring (EDM) feedback loop



(1) Restart

Connecting to a Safety Interface



- 1: Click on Download & Documents
- 2: Click on 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"

