XUSL4E3BB081LWH

Green Premium Product

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	3...17 m by cabling 0...8 m by cabling
Height protected	31.89 in (810 mm)
Number of beams	3
Distance between axis	15.75 in (400 mm)
Type of start	Automatic Manual
Control type	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 (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
[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 Afor safety outputs OSSD
Output voltage	24 V
Output circuit type	DC
Voltage drop	<= 0.5 V
Maximum power	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	AWG 22 unshielded cable of 32.81 ft (10 m)
Ohmic cable resistance	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

Schneider Electric

|	Cable: PVC (polyvinyl chloride)
Housing colour	RAL 3000: red
Fixing mode	By fixing brackets
Product weight	9.77 lb(US) (4.43 kg)
Offer type	Long distance
Provided equipment	With 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 Ecolab
safety level	SIL 3 conforming to IEC 61508 Type 4 conforming to IEC 61496-1 SILCL 3 conforming to IEC 62061 Category 4 conforming to EN/ISO 13849-1 PL = e conforming to EN/ISO 13849-1
environmental characteristic	Resistance to light disturbance conforming to EN/IEC 61496-2
service life	20 yr
safety reliability data	PFHd = 7.55E-9 1/h conforming to IEC 61508
ambient air temperature for operation	-22...131 °F (-30...55 °C) -13...131 °F
ambient air temperature for storage	-22...158 °F (-30...70 °C) -13...158 °F
relative humidity	0...95 % without condensation
IP degree of protection	IP69K
shock resistance	10 gn 16 ms conforming to IEC 61496-1
vibration resistance	0.35 +/- 0.05 mm (f = 10...55 Hz) conforming to IEC 61496-1

Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 1425 - Schneider Electric declaration of conformity	Compliant - since 1425 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Available	Available
WARNING: This product can expose you to chemicals including:	WARNING: This product can expose you to chemicals including:
Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and	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.	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 more information go to www.p65warnings.ca.gov

Dimensions

mm
in.

Mounting and Clearance

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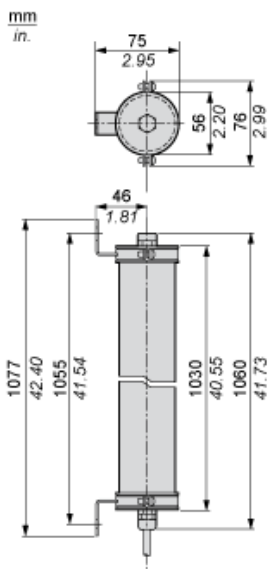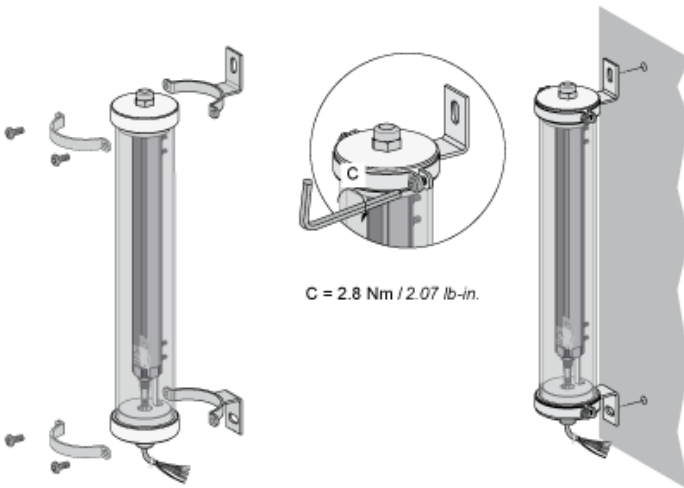
Wiring Diagrams

Transmitter Pre-wired

Brown: +24 Vdc
White: Configuration_0
Blue: 0 Vdc
Green or Black: Configuration_1
Grey: Functional Earth
Yellow: 0 Vdc (Heating system)
Red: +24 Vac/Vdc (Heating system)
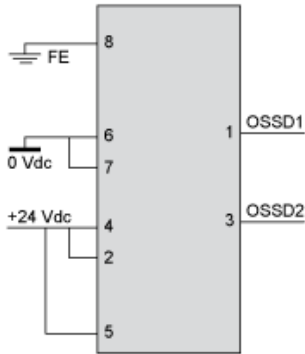Pink: Not connected

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

FE — 8
6
0 Vdc — 7
+24 Vdc — 4
2
5
1 OSSD1
3 OSSD2

With External Device Monitoring (EDM) feedback loop

FE — 8
6
0 Vdc — 7
+24 Vdc — 4
K2
2
K1
5
1 OSSD1
3 OSSD2
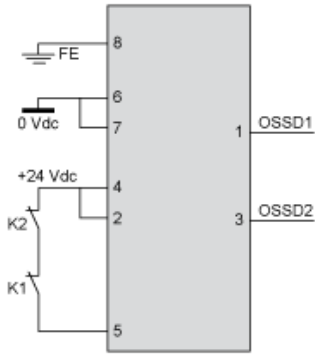
Manual Start/Restart

Without External Device Monitoring (EDM) feedback loop

FE — 8
4
0 Vdc — 7
+24 Vdc — 6
2
(1)
5
1 OSSD1
3 OSSD2
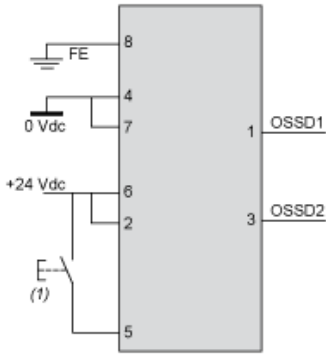
(1) Restart

With External Device Monitoring (EDM) feedback loop

FE — 8
4
0 Vdc — 7
+24 Vdc — 6
2
(1)
K2
K1
5
1 OSSD1
3 OSSD2
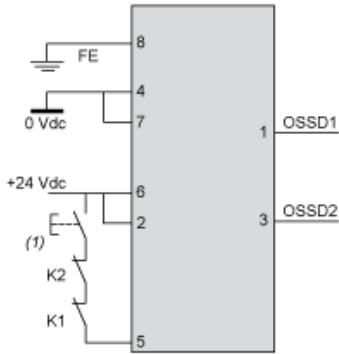
(1) Restart

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 | (Se ▼ |

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 ②

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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