XUSL4E4BB091N

XUSL type 4 - Body protection - Std sensing range - 4 Beams, Hp = 910 mm

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	0...12 m by cabling 0...4 m by cabling
Height protected	910 mm
Number of beams	4
Distance between axis	300 mm
Type of start	Manual Automatic
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
[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 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)
Function available	Muting through external safety module XPSLCMUT1160 LED display of operating modes and faults Test
Marking	CE
Material	Front panel : polycarbonate End caps : polypropylene Casing : aluminium
Housing colour	RAL 3000 : red
Fixing mode	By fixing brackets

Product weight	1.7 kg
Offer type	Standard distance

Environment

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Directives	2002/95/EC - RoHS directive 98/37/EEC - machinery 2002/96/EC - WEEE directive 89/655/EEC - work equipment 89/336/EEC - electromagnetic compatibility
Product certifications	TÜV CE CULus
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 = 8.21E-9 1/h conforming to IEC 61508
Ambient air temperature for operation	14...131 °F -30...55 °C
Ambient air temperature for storage	-35...70 °C -13...158 °F
Relative humidity	0...95 % without condensation
IP degree of protection	IP65 IP67
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

Offer Sustainability

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

Contractual warranty

Warranty period	18 months

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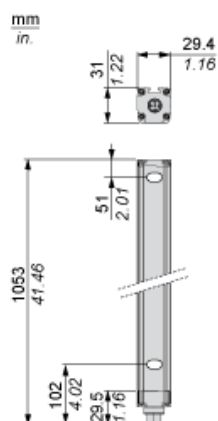
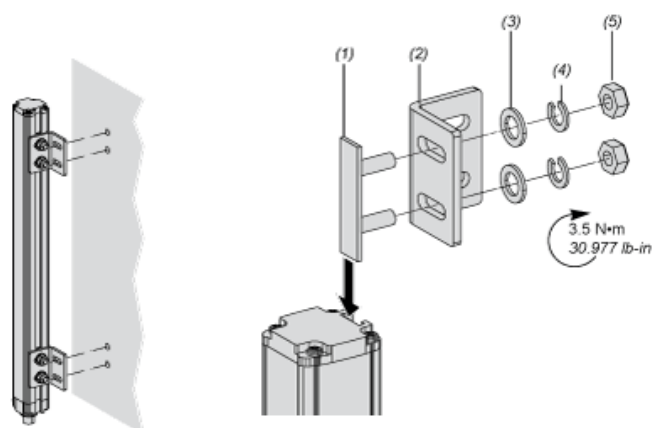## Dimensions

Brackets Dimensions
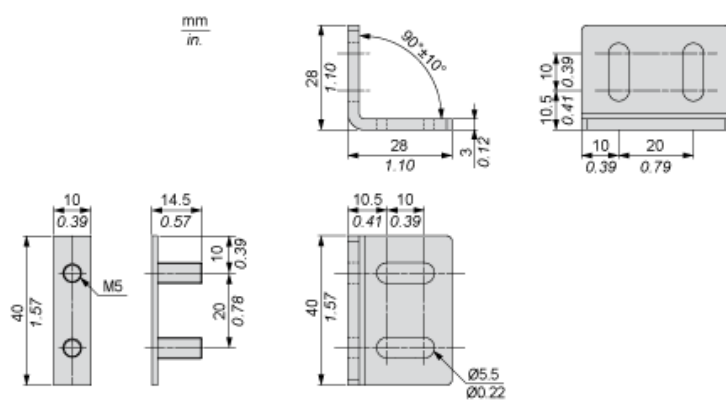
Mounting and Clearance

(1)   Insert
(2)   Bracket
(3)   Washer
(4)   Spring washer
(5)   Nut

Wiring Diagrams

Transmitter Connections

(1)   +24 Vdc
(2)   Configuration_0
(3)   0 Vdc
(4)   Configuration_1
(5)   FE

Transmitter configurations and operating modes

	High range option	Low range option	Transmitter in Test state	Forbidden wiring
Pin 4 : Configuration_1	24 V	0 V	0 V	24 V
Pin 2 : Configuration_0	0 V	24 V	0 V	24 V

Receiver Connections

(1)   OSSD1
(2)   + 24 V
(3)   OSSD2
(4)   Configuration_A
(5)   K1_K2 Feeback/Restart
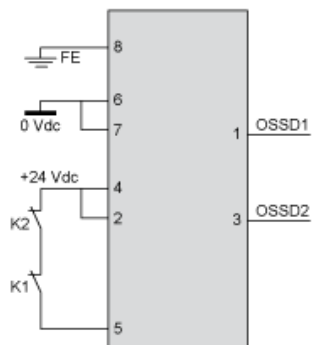(6)   Configuration_B
(7)   0 Vdc
(8)   FE

Receiver Configurations and Operating Modes

Automatic Start/Restart

Without External Device Monitoring (EDM) feedback loop
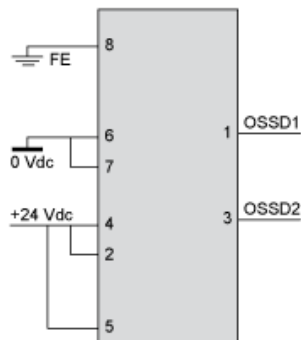
With External Device Monitoring (EDM) feedback loop
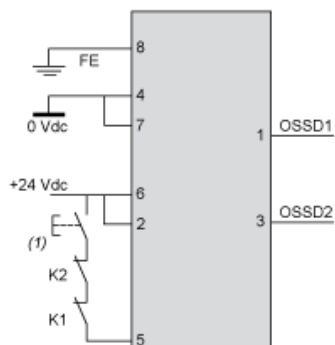

Manual Start/Restart

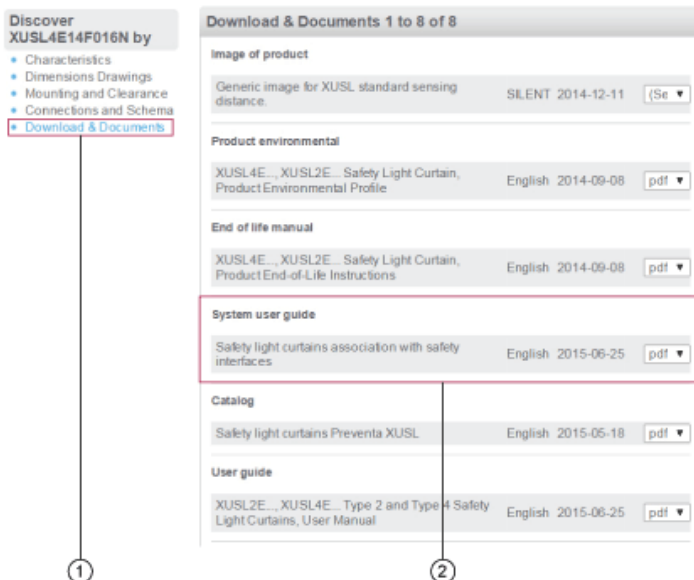Without External Device Monitoring (EDM) feedback loop

(1)   Restart

With External Device Monitoring (EDM) feedback loop

(1)   Restart

Connecting to a Safety Interface

Telemecanique
Sensors

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"