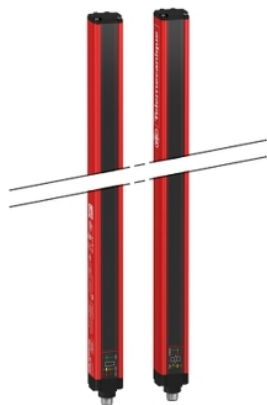# Product data sheet
Characteristics

XUSL2E3BB081N

Safety light curtain type 2, Telemecanique Safety light curtains XUSL, XUSL For body protection, 3 Beams, Hp = 810 mm

Main

Range of product	Telemecanique Safety light curtains XUSL
Product or component type	Safety light curtain type 2
Device short name	XUSL2E
Output type	2 safety outputs OSSD solid-state PNP (arc suppression)
Product specific application	For body protection
[Sn] nominal sensing distance	0…12 M by cabling 0…4 m by cabling
[Hp] Height protected	810 mm
Number of beams	3
Space between beams	400 mm
Type of start / restart	Manual Automatic
External Device Monitoring (EDM)	Selected by wiring

Complementary

Detection system	Transmitter-receiver system
Response time	3.5 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	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
Function available	Test Muting through external safety module XPSLCMUT1160 LED display of operating modes and faults
Marking	CE
Material	Aluminium: casing Polycarbonate: front panel Polypropylene: end caps
Housing colour	Red RAL 3000
Fixing mode	By fixing brackets

Net weight	1.62 kg
Offer type	Standard distance

Environment

Directives	98/37/EEC - machinery 89/655/EEC - work equipment 89/336/EEC - electromagnetic compatibility
Product certifications	TÜV[RETURN]cULus[RETURN]CE
Safety level (correctly wired)	Type 2 conforming to IEC 61496-1 Category 2 conforming to ISO 13849-1 SIL 1 conforming to IEC 61508 SILCL 1 conforming to IEC 62061 PL = c conforming to ISO 13849-1
Optical characteristic	Resistance to light disturbance conforming to IEC 61496-2
Mission time	20 year(s)
Safety reliability data	PFHd = 1.87E-8 1/h conforming to IEC 61508
Ambient air temperature for operation	-10…55 °C -30…55 °C
Ambient air temperature for storage	-25…70 °C -35…70 °C
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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	14.000 cm
Package 1 Width	20.000 cm
Package 1 Length	101.500 cm
Package 1 Weight	3.346 kg
Unit Type of Package 2	P12
Number of Units in Package 2	20
Package 2 Height	75.000 cm
Package 2 Width	80.000 cm
Package 2 Length	120.000 cm
Package 2 Weight	80.000 kg

Offer Sustainability

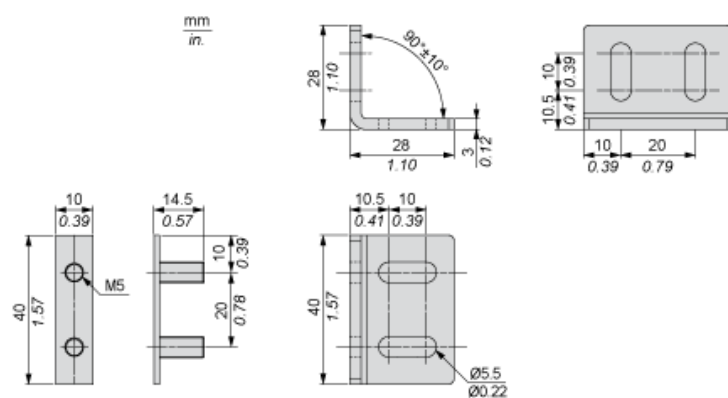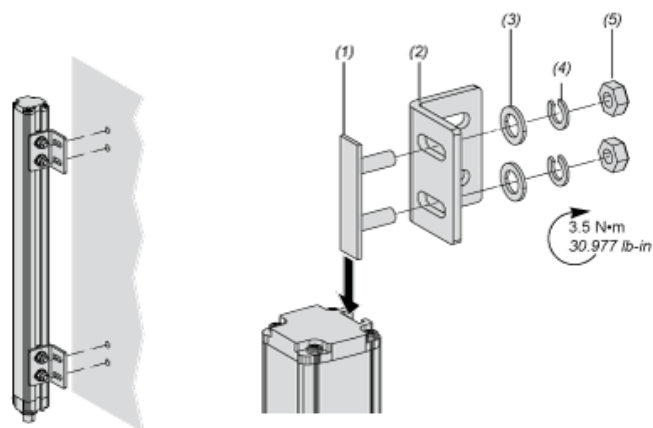| Sustainable offer status	Green Premium product
Toxic heavy metal free	Yes
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to 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

Telemecanique
Sensors

Dimensions

mm / in.

29.4 / 1.16
31 / 1.22
51 / 2.01
953 / 37.52
102 / 4.02
29.5 / 1.16

Brackets Dimensions

mm / in.

90°±10°
28 / 1.10
28 / 1.10
3 / 0.12
10.5 / 0.41
10 / 0.39
10 / 0.39
20 / 0.79

10 / 0.39
14.5 / 0.57
10.5 / 0.41
10 / 0.39
40 / 1.57
M5
10 / 0.39
20 / 0.78
40 / 1.57
Ø5.5 / Ø0.22

XUSL2E3BB081N
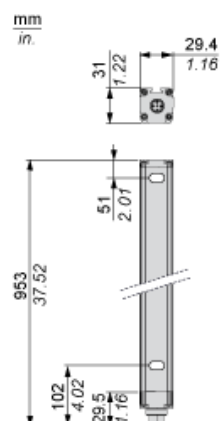
Mounting and Clearance

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

Telemecanique
Sensors

XUSL2E3BB081N

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
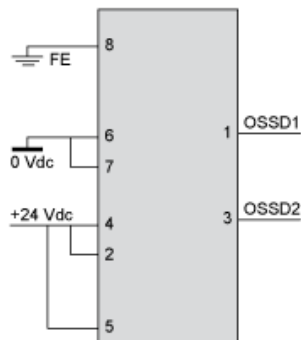

(1)   OSSD1
(2)   + 24 V
(3)   OSSD2
(4)   Configuration_A
(5)   K1_K2 Feeback/Restart
(6)   Configuration_B
(7)   0 Vdc
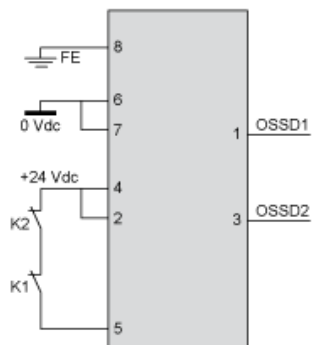(8)   FE

Receiver Configurations and Operating Modes

Automatic Start/Restart

Without External Device Monitoring (EDM) feedback loop

With External Device Monitoring (EDM) feedback loop
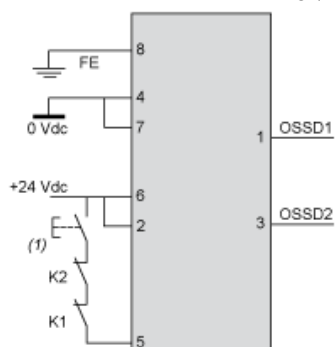

Manual Start/Restart

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 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"