Product data sheet
Characteristics

XUSL4E2BB051NS1

XUSL type 4 - Slave1 - For body protection - 510 mm

Green Premium™

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)
[Sn] nominal sensing distance	0…12 m by cabling 0…4 m by cabling
[Hp] Height protected	20.08 in (510 mm)
Number of beams	2
Space between beams	19.69 in (500 mm)
Type of start / restart	Manual Automatic
External Device Monitoring (EDM)	Selected by wiring

Complementary

Detection system	Transmitter-receiver system
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 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

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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	2.43 lb(US) (1.1 kg)
Offer type	Standard distance
Topology	Daisy chain slave1

Environment

Directives	89/336/EEC - electromagnetic compatibility 2002/95/EC - RoHS directive 2002/96/EC - WEEE directive 89/655/EEC - work equipment 98/37/EEC - machinery
Product certifications	CE TÜV CULus
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 = 6.89E-9 1/h IEC 61508
Ambient air temperature for operation	-22…131 °F (-30…55 °C) 14…131 °F (-10…55 °C)
Ambient air temperature for storage	-31…158 °F (-35…70 °C) -13…158 °F (-25…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

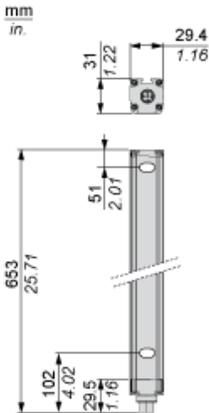| Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	4.85 lb(US) (2.2 kg)
Package 1 Height	5.31 in (13.5 cm)
Package 1 width	7.68 in (19.5 cm)
Package 1 Length	23.62 in (60 cm)

Offer Sustainability

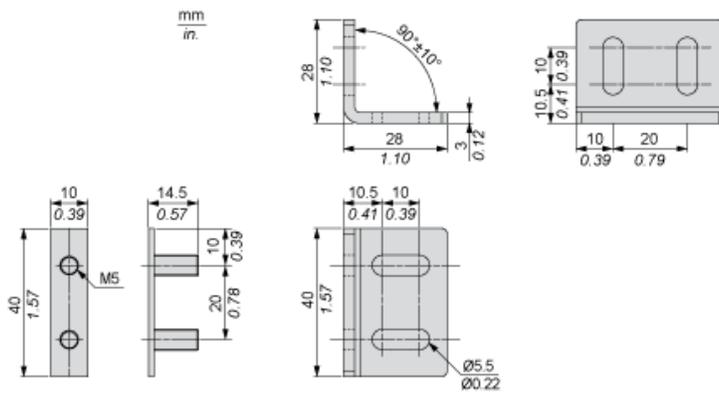|	
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

Contractual warranty

Warranty	18 months

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Dimensions

mm
in.

29.4 / 1.16
31 / 1.22
51 / 2.01
653 / 25.71
102 / 4.02
29.5 / 1.16

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Brackets Dimensions

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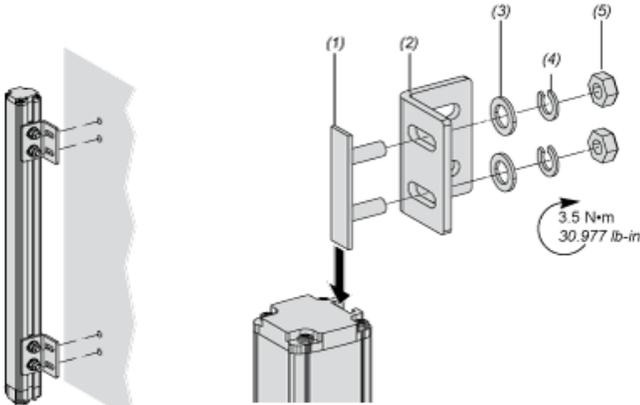
(1)   Insert
(2)   Bracket
(3)   Washer
(4)   Spring washer
(5)   Nut

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Wiring Diagrams

Transmitter Connections
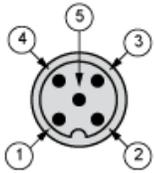
(1)	+24 Vdc
(2)	Master/Slave_A
(3)	0 Vdc
(4)	Master/Slave_B
(5)	FE

Receiver Connections

(1)	+24 Vdc
(2)	Master/Slave_A
(3)	0 Vdc
(4)	Master/Slave_B
(5)	FE