XUSL2E30H151N

XUSL type 2 Hand protection - Std sensing range - Hp = 1510mm, R=30mm





Main

Range of product	Preventa Safety detection		
Product or component type	Safety light curtain type 2		
Device short name	XUSL2E		
Output type	2 safety outputs OSSD solid-state PNP (integrated arc suppression)		
Product specific application	For hand protection		
[R] Resolution	30 mm		
[Sn] nominal sensing distance	04 m by cabling 012 m by cabling		
[Hp] Height protected	1510 mm		
Number of beams	76		
Type of start / restart	Automatic Manual		
External Device Monitoring (EDM)	Selected by wiring		

Complementary

Complementary				
Detection system	Transmitter-receiver system			
Response time	19.5 ms			
Kit composition	user guide with certificate of conformity on CD-ROM transmitter(s) receiver(s) Adjustable mounting bracket(s)			
[EAA] effective aperture angle	+/- 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 60204-1 Power supply must meet requirements of IEC 61496-1			
[le] rated operational current	2 A			
Current consumption	900 mA with maximum load (receiver) 42 mA (transmitter) 83 mA no-load (receiver) 42 mA no-load (transmitter)			
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	2 dual colour LEDs (receiver) 1 multi-colour LED (transmitter)			
Electrical connection	1 male connector M12 8 pins (receiver) 1 male connector M12 5 pins (transmitter)			
Function available	LED display of operating modes and faults Muting through external safety module XPSLCMUT1160 Test			
Marking	CE			
Material	End caps : polypropylene Front panel : polycarbonate Casing : aluminium			
Housing colour	RAL 3000 : red			

Fixing mode	By fixing brackets	
Product weight	2.8 kg	
Offer type	Standard distance	

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)	PL = c conforming to EN/ISO 13849-1 SILCL 1 conforming to IEC 62061 SIL 1 conforming to IEC 61508 Category 2 conforming to EN/ISO 13849-1 Type 2 conforming to IEC 61496-1			
Optical characteristic	Resistance to light disturbance conforming to EN/IEC 61496-2			
Mission time	20 yr			
Safety reliability data	PFHd = 7.71E-8 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	IP67 IP65			
Shock resistance	10 gn for 16 ms conforming to IEC 61496-1			

Offer Sustainability

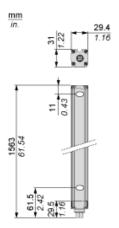
Sustainable offer status	Green Premium product		
RoHS (date code: YYWW)	Compliant - since 1425 - Schneider Electric declaration of conformity		
REACh	Reference not containing SVHC above the threshold		
Product environmental profile	Available Download Product Environmental		
Product end of life instructions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



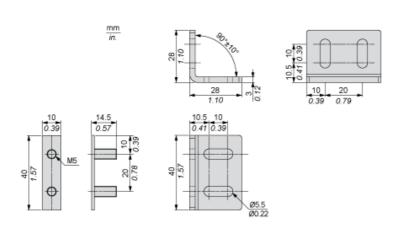
Product data sheet Dimensions Drawings

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Dimensions

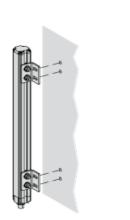


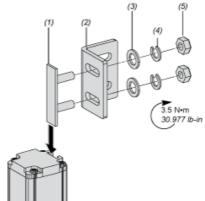
Brackets Dimensions



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Mounting and Clearance





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

Product data sheet Connections and Schema

XUSL2E30H151N

Wiring Diagrams

Transmitter Connections

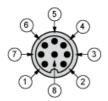


- (1) +24 Vdc
- (2) Configuration_0
- (3) 0 Vdc
- (4) Configuration_1
- (5) FE

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

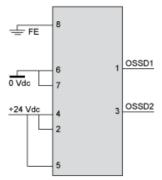


- OSSD1
- (2) + 24 V
- (3) OSSD2
- (4) Configuration_A
- (5) K1_K2 Feeback/Restart
- (6) Configuration_B
- (7) 0 Vdc
- (8) FE

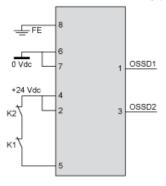
Receiver Configurations and Operating Modes

Automatic Start/Restart

Without External Device Monitoring (EDM) feedback loop

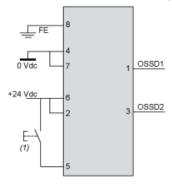


With External Device Monitoring (EDM) feedback loop



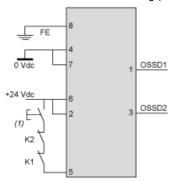
Manual Start/Restart

Without External Device Monitoring (EDM) feedback loop



(1) Restart

With External Device Monitoring (EDM) feedback loop



(1) Restart

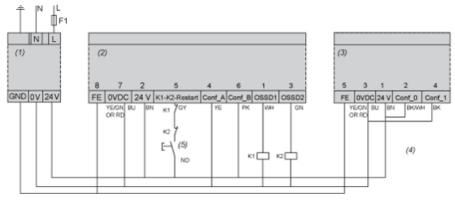
Connection Schematics

Standalone Application

XUSL2E light curtains are conforming to Type 2 (IEC 61496-1), SIL2 (IEC 61508) - SILCL2 (IEC 62061) and PLd- Cat.2 (EN ISO 13849-1:2008)



Example of wiring diagram with manual start, external device monitoring and low range



- (1) (2) Power supply XUSL Receiver
- XUSL transmitter (3)
- Low range (4)
- (5) Start

The contactors K1/K2 must have :

- Normally closed mirror contact, according to IEC 60947-4-1 for power contactors
- Linked contacts (or force guided contacts), according to IEC 60947-5-1 or EN 50205 for auxiliary contactors or control relays