## **Product datasheet** Characteristics

# XUSL4E30H031N

XUSL type 4 - For hand protection - Std sensing range - Hp = 310 mm, R=30mm



#### 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 hand protection	
Minimum object diameter for detection	30 mm	
[Sn] nominal sensing distance	012 m by cabling 04 m by cabling	
Height protected	310 mm	
Number of beams	16	
Type of start	Automatic Manual	
Control type	Selected by wiring	

## Complementary

* *		
Main		
Range of product	Preventa Safety detection	
Product or component type	Safety light curtain type 4	
Device short name	XUSL4E	
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Number of beams	16	
Type of start	Automatic Manual	
Control type	Selected by wiring	
Complementary		
Detection system	Transmitter-receiver system	
Response time	5.5 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	+/- 2.5 ° at 3 m	
Emission	+7-2.5 at 3 m IR LED ( $λ$ = 950 nm)	
[Us] rated supply voltage	24 V DC (+/- 20 %)	
Supply	Power supply must meet requirements of IEC 61496-1	
Сарріу	Power supply must meet requirements of IEC 60204-1	
[le] rated operational current	2 A	
Current consumption	42 mA no-load (transmitter) 83 mA no-load (receiver) 42 mA (transmitter)	
May 00, 2047		

900 mA	with	maximum	heal	(receiver)

0.4 A for safety outputs OSSD	
24 V	
DC	
<= 0.5 V	
1 multi-colour LED (transmitter) 2 dual colour LEDs (receiver)	
1 male connector M12 5 pins (transmitter) 1 male connector M12 8 pins (receiver)	
Muting through external safety module XPSLCMUT1160 LED display of operating modes and faults Test	
CE	
Front panel : polycarbonate End caps : polypropylene Casing : aluminium	
RAL 3000 : red	
By fixing brackets	
0.7 kg	
Standard distance	

### Environment

Directives	98/37/EEC - machinery 2002/96/EC - WEEE directive 89/336/EEC - electromagnetic compatibility 2002/95/EC - RoHS directive 89/655/EEC - work equipment	
Product certifications	CE TÜV 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 = 8.20E-9 1/h conforming to IEC 61508	
Ambient air temperature for operation	-1055 °C 14131 °F	
Ambient air temperature for storage	-13158 °F -2570 °C	
Relative humidity	<= 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 = 1055 Hz) 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		
	Schneider Electric declaration of conformity		
REACh	Reference not containing SVHC above the threshold		
	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

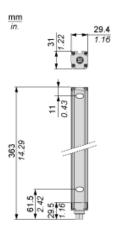
Warranty period

18 months

# Product datasheet Dimensions Drawings

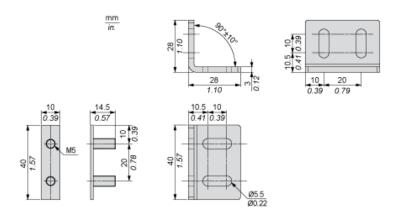
# XUSL4E30H031N

## Dimensions



# XUSL4E30H031N

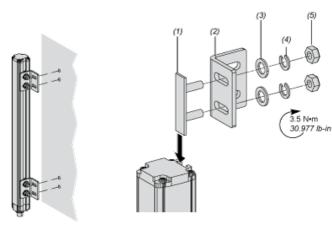
## **Brackets Dimensions**



## Product datasheet Mounting and Clearance

# XUSL4E30H031N

## Mounting and Clearance



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

## **Product datasheet** Connections and Schema

# XUSL4E30H031N

## Wiring Diagrams

### **Transmitter Connections**

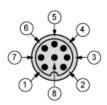


- +24 Vdc
- (1) (2) Configuration\_0
- 0 Vdc (3)
- (4) Configuration\_1
- (5) FE

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) (3) + 24 V
- OSSD2
- (4) Configuration\_A
- K1\_K2 Feeback/Restart (5)
- (6) Configuration\_B
- (7) (8) 0 Vdc
- FE

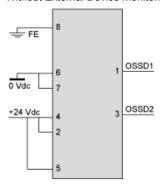
# Product datasheet Connections and Schema

# XUSL4E30H031N

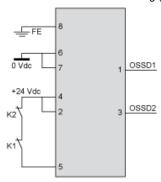
## Receiver Configurations and Operating Modes

### Automatic Start/Restart

Without External Device Monitoring (EDM) feedback loop

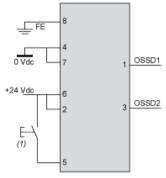


With External Device Monitoring (EDM) feedback loop



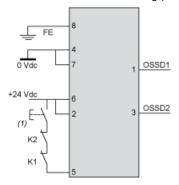
#### Manual Start/Restart

Without External Device Monitoring (EDM) feedback loop



(1) Restart

## With External Device Monitoring (EDM) feedback loop

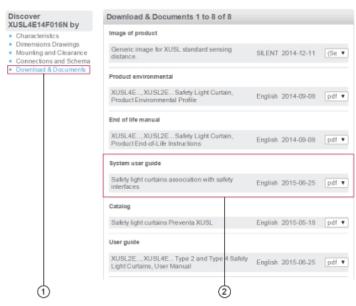


(1) Restart

# Product datasheet Connections and Schema

## XUSL4E30H031N

### Connecting to a Safety Interface



- 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"