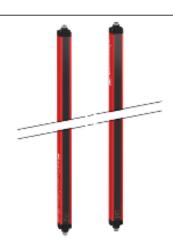
Product datasheet Characteristics

XUSL4E14F031NM

XUSL type 4 - Master for finger protection - Hp = 310 mm, R=14mm



Main

4 4		
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 finger protection	
Minimum object diameter for detection	14 mm	r
[Sn] nominal sensing distance	16 m by cabling 03 m by cabling	
Height protected	310 mm	
Number of beams	30	
Type of start	Automatic Manual	
Control type	Selected by wiring	
Complementary		
Detection system	Transmitter-receiver system	

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 (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	
[le] 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	0.72 kg
Offer type	Standard distance
Topology	Daisy chain master

Environment

Liviloimont			
Directives	89/336/EEC - electromagnetic compatibility 2002/95/EC - RoHS directive 89/655/EEC - work equipment 98/37/EEC - machinery 2002/96/EC - WEEE directive		
Product certifications	CE cULus TÜV		
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	



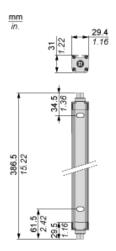
Contractual warranty

Warranty period 18 months

Product datasheet Dimensions Drawings

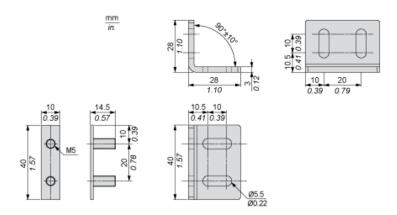
XUSL4E14F031NM

Dimensions



XUSL4E14F031NM

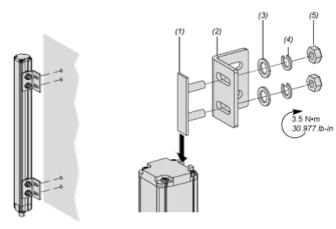
Brackets Dimensions



Product datasheet Mounting and Clearance

XUSL4E14F031NM

Mounting and Clearance



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

Product datasheet Connections and Schema

XUSL4E14F031NM

Wiring Diagrams

Transmitter Connections

Master primary connector at the bottom



- +24 Vdc
- Configuration_0 (2)
- 0 Vdc
- Configuration_1 (4)
- (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

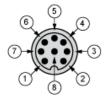
Master secondary connector at the top



- +24 Vdc
- (2) (3) Master/Slave_A
- 0 Vdc
- (4) Master/Slave_B
- FΕ

Receiver Connections

Master primary connector at the bottom



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

Master secondary connector at the top



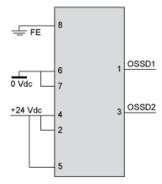
- +24 Vdc
- (1) (2) (3) (4) (5) Master/Slave_A 0 Vdc
- Master/Slave_B
- FΕ

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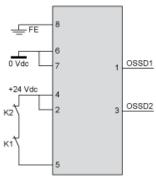
Receiver Configurations and Operating Modes

Automatic Start/Restart

Without External Device Monitoring (EDM) feedback loop

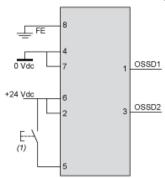


With External Device Monitoring (EDM) feedback loop



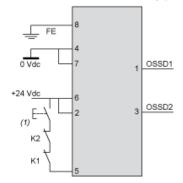
Manual Start/Restart

Without External Device Monitoring (EDM) feedback loop



(1) Restart

With External Device Monitoring (EDM) feedback loop

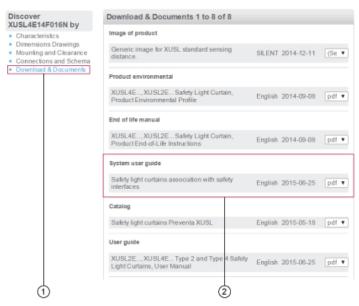


(1) Restart

Product datasheet Connections and Schema

XUSL4E14F031NM

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"