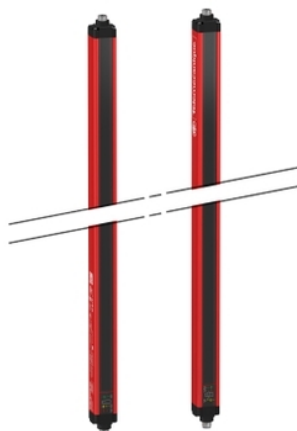


Product availability: Non-Stock - Not normally stocked in distribution facility



### 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)
[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	Automatic Manual
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 ( $\lambda = 950$ 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
[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
Voltage drop	$\leq 0.5$ 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	2.43 lb(US) (1.1 kg)

The information provided in this documentation contains general descriptions and/or technical characteristics of the products of the Schneider Electric group. It is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Offer type	Standard distance
Topology	Daisy chain master

## Environment

Directives	2002/95/EC - RoHS directive 2002/96/EC - WEEE directive 89/655/EEC - work equipment 98/37/EEC - machinery 89/336/EEC - electromagnetic compatibility
Product certifications	CE CULus TÜV
Safety level (correctly wired)	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
Optical characteristic	Resistance to light disturbance conforming to EN/IEC 61496-2
Mission time	20 yr
Safety reliability data	PFHd = 6.89E-9 1/h conforming to IEC 61508
Ambient air temperature for operation	14...131 °F -22...131 °F (-30...55 °C)
Ambient air temperature for storage	-31...158 °F (-35...70 °C) -13...158 °F
Relative humidity	0...95 % without condensation
IP degree of protection	IP65 IP67
Shock resistance	10 gn 16 ms conforming to IEC 61496-1
Vibration resistance	0.35 +/- 0.05 mm (f = 10...55 Hz) conforming to IEC 61496-1

## Ordering and shipping details

Category	22455 - LIGHT CURTAINS - XUSL
Discount Schedule	DS2
GTIN	003389119620260
Nbr. of units in pkg.	1
Package weight(Lbs)	4.889999999999997
Returnability	N
Country of origin	IT

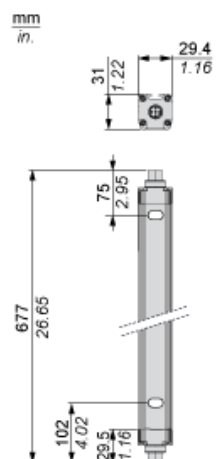
## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1425 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available
California proposition 65	WARNING: This product can expose you to chemicals including:
- - - - - Substance 1	Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and
- - - - - Substance 2	Diisodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.
- - - - - More information	For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>

## Contractual warranty

Warranty period	18 months
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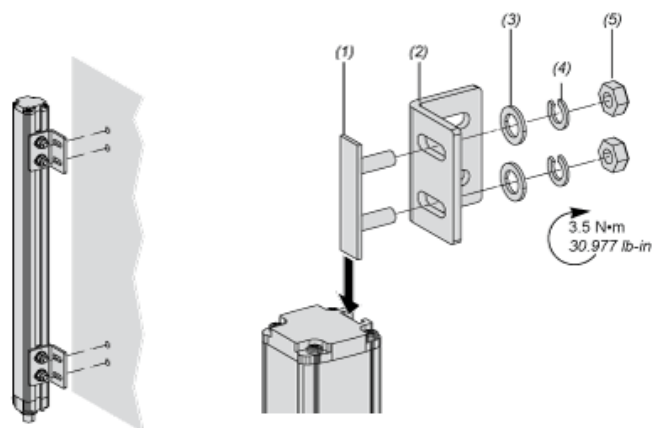
## Dimensions



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Mounting and Clearance

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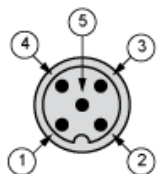


- (1) Insert
- (2) Bracket
- (3) Washer
- (4) Spring washer
- (5) Nut

## Wiring Diagrams

### Transmitter Connections

Master primary connector at the bottom

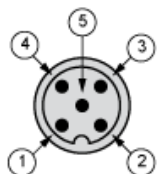


- (1) +24 Vdc
- (2) Configuration\_0
- (3) 0 Vdc
- (4) Configuration\_1
- (5) FE

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

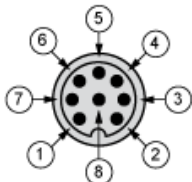
Master secondary connector at the top



- (1) +24 Vdc
- (2) Master/Slave\_A
- (3) 0 Vdc
- (4) Master/Slave\_B
- (5) FE

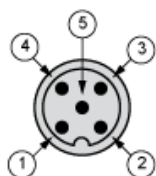
### Receiver Connections

Master primary connector at the bottom



- (1) OSSD1
- (2) + 24 V
- (3) OSSD2
- (4) Configuration\_A
- (5) K1\_K2 Feedback/Restart
- (6) Configuration\_B
- (7) 0 Vdc
- (8) FE

Master secondary connector at the top

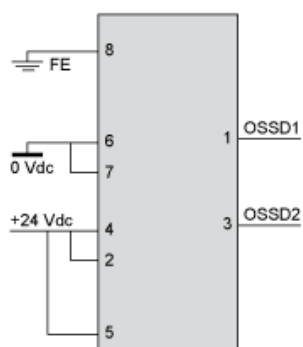


- (1) +24 Vdc
- (2) Master/Slave\_A
- (3) 0 Vdc
- (4) Master/Slave\_B
- (5) FE

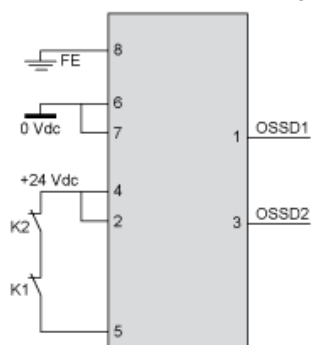
## Receiver Configurations and Operating Modes

### Automatic Start/Restart

Without External Device Monitoring (EDM) feedback loop

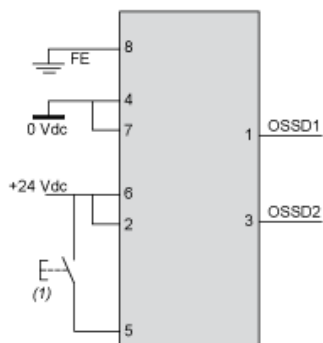


With External Device Monitoring (EDM) feedback loop



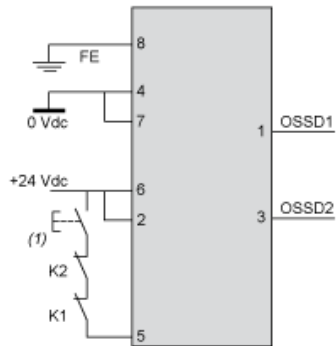
### Manual Start/Restart

Without External Device Monitoring (EDM) feedback loop



- (1) Restart

With External Device Monitoring (EDM) feedback loop



(1) Restart

## Connecting to a Safety Interface

The screenshot shows the 'Discover XUSL4E14F016N by' page with the following sections:

- Discover XUSL4E14F016N by**
  - Characteristics
  - Dimensions Drawings
  - Mounting and Clearance
  - Connections and Schema
  - Download & Documents** (highlighted with a red box and labeled 1)
- Download & Documents 1 to 9 of 9**
  - Image of product**
    - Generic image for XUSL standard sensing distance: SILENT 2014-12-11 (pdf)
  - Product environmental**
    - XUSL4E..., XUSL2E... Safety Light Curtain, Product Environmental Profile: English 2014-09-08 (pdf)
  - End of life manual**
    - XUSL4E..., XUSL2E... Safety Light Curtain, Product End-of-Life Instructions: English 2014-09-08 (pdf)
  - Application solutions** (highlighted with a red box and labeled 2)
    - Safety light curtains association with safety interfaces: English 2016-01-08 (pdf)
  - Catalog**
    - Safety light curtains Preventa XUSL: English 2015-05-18 (pdf)
  - User guide**
    - XUSL2E..., XUSL4E... Type 2 and Type 4 Safety Light Curtains, User Manual: English 2015-06-25 (pdf)

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"

# Mouser Electronics

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