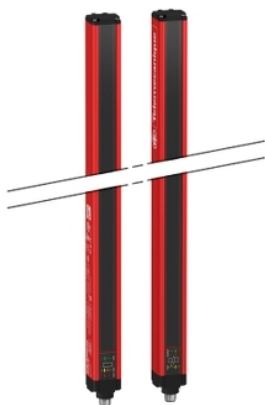


XUSL4E30H106N

Safety light curtain type 4, Telemecanique
Safety light curtains XUSL, XUSL For hand
protection, Std sensing range, Hp = 1060 mm,
R=30 mm



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)
Product specific application	For hand protection
[R] Resolution	30 mm
[Sn] nominal sensing distance	0...12 M by cabling 0...4 m by cabling
[Hp] Height protected	1060 mm
Number of beams	53
Type of start / restart	Automatic Manual
External Device Monitoring (EDM)	Selected by wiring

Complementary

Detection system	Transmitter-receiver system
Response time	14 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	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
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

The information provided in this documentation contains general descriptions and/or technical characteristics of the products of the products contained herein. This documentation 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.

Housing colour	Red RAL 3000
Fixing mode	By fixing brackets
Net weight	2 kg
Offer type	Standard distance

Environment

Directives	89/655/EEC - work equipment 98/37/EEC - machinery 89/336/EEC - electromagnetic compatibility
Product certifications	CE CULus TÜV
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 = 1.43E-8 1/h conforming to IEC 61508
Ambient air temperature for operation	-30...55 °C -10...55 °C
Ambient air temperature for storage	-35...70 °C -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	3.952 kg
Package 1 Height	14 cm
Package 1 width	19.5 cm
Package 1 Length	119 cm
Unit Type of Package 2	P12
Number of Units in Package 2	20
Package 2 Weight	91.04 kg
Package 2 Height	112 cm
Package 2 width	80 cm
Package 2 Length	120 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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Technical drawing of a mechanical part, showing five views: front, top, left side, right side, and isometric. The part is a rectangular block with a central slot and a circular hole. Dimensions are given in mm and inches.

Front View: Overall height 40 mm, width 10 mm. A circular hole with diameter $\varnothing 5$ is located at a distance of 1.57 mm from the top edge.

Top View: Overall width 28 mm, depth 1.10 mm. A central slot with width 3 mm and depth 0.12 mm is shown. The slot is located at a distance of 7.10 mm from the top edge and 28 mm from the bottom edge. The slot is angled at $90^\circ \pm 10^\circ$.

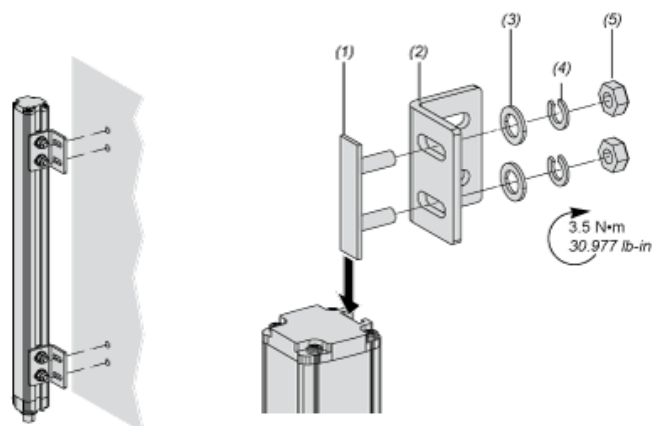
Left Side View: Overall height 14.5 mm, width 0.57 mm. A central slot with width 10 mm and depth 0.39 mm is shown. The slot is located at a distance of 10 mm from the top edge and 20 mm from the bottom edge.

Right Side View: Overall height 10.5 mm, width 0.41 mm. A central slot with width 10 mm and depth 0.39 mm is shown. The slot is located at a distance of 10 mm from the top edge and 20 mm from the bottom edge.

Isometric View: Shows the 3D shape of the part. Dimensions include overall height 40 mm, width 10 mm, and depth 1.57 mm. A circular hole with diameter $\varnothing 5.5$ is shown. The slot is angled at $90^\circ \pm 10^\circ$.

Scale: 1:1

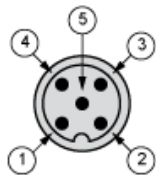
Mounting and Clearance



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

Wiring Diagrams

Transmitter Connections

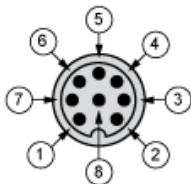


- (1) +24 Vdc
- (2) Configuration_0
- (3) 0 Vdc
- (4) Configuration_1
- (5) FE

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

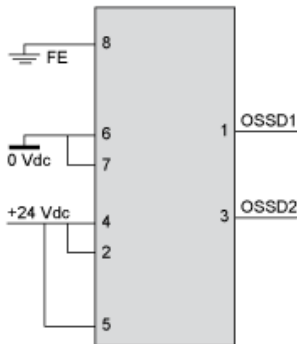


- (1) OSSD1
- (2) + 24 V
- (3) OSSD2
- (4) Configuration_A
- (5) K1_K2 Feeback/Restart
- (6) Configuration_B
- (7) 0 Vdc
- (8) FE

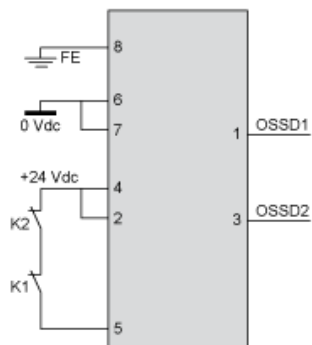
Receiver Configurations and Operating Modes

Automatic Start/Restart

Without External Device Monitoring (EDM) feedback loop

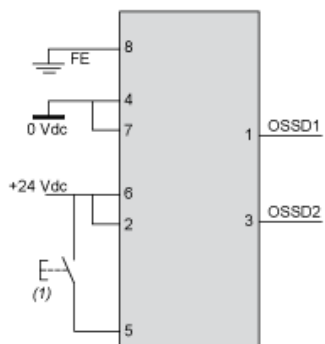


With External Device Monitoring (EDM) feedback loop



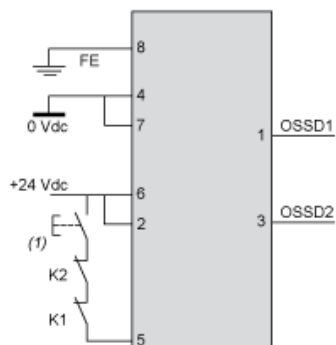
Manual Start/Restart

Without External Device Monitoring (EDM) feedback loop



(1) Restart

With External Device Monitoring (EDM) feedback loop



(1) Restart

Connecting to a Safety Interface



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"