Product data sheet
Characteristics

XUSL2E30H016N

XUSL type 2 Hand protection - Std sensing range - Hp = 160 mm, R=30mm

Green Premium™

Main

Range of product	Telemecanique Safety light curtains XUSL
Product or component type	Safety light curtain type 2
Device short name	XUSL2E
Output type	2 safety outputs OSSD solid-state PNP (arc suppression)
Product specific application	For hand protection
[R] Resolution	1.18 in (30 mm)
[Sn] nominal sensing distance	0…12 m by cabling 0…4 m by cabling
[Hp] Height protected	6.30 in (160 mm)
Number of beams	8
Type of start / restart	Automatic Manual
External Device Monitoring (EDM)	Selected by wiring

Complementary

Detection system	Transmitter-receiver system
Response time	4.5 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	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
Housing colour	Red RAL 3000
Fixing mode	By fixing brackets
Net weight	0.88 lb(US) (0.4 kg)
Offer type	Standard distance

Environment

Directives	89/655/EEC - work equipment 98/37/EEC - machinery 2002/95/EC - RoHS directive 89/336/EEC - electromagnetic compatibility 2002/96/EC - WEEE directive
Product certifications	CULus CE TÜV
Safety level (correctly wired)	Type 2 IEC 61496-1 Category 2 EN/ISO 13849-1 SIL 1 IEC 61508 SILCL 1 IEC 62061 PL = c 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 = 2.04E-8 1/h IEC 61508
Ambient air temperature for operation	-22…131 °F (-30…55 °C) 14…131 °F (-10…55 °C)
Ambient air temperature for storage	-13…158 °F (-25…70 °C) -31…158 °F (-35…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	2.65 lb(US) (1.2 kg)
Package 1 Height	5.51 in (14 cm)
Package 1 width	7.68 in (19.5 cm)
Package 1 Length	9.45 in (24 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

Dimensions
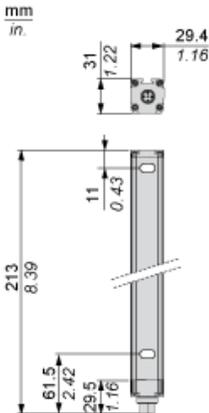
Brackets Dimensions
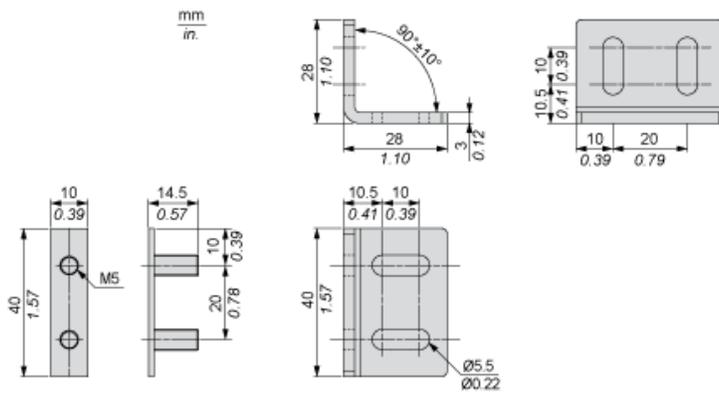
Mounting and Clearance
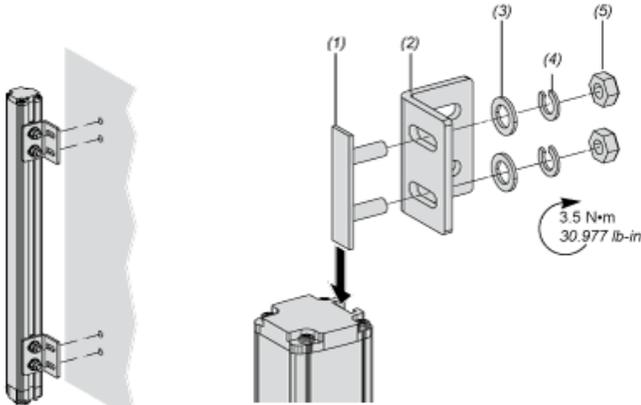
(1)   Insert
(2)   Bracket
(3)   Washer
(4)   Spring washer
(5)   Nut

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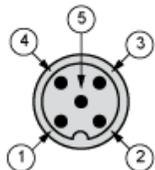
(1)   +24 Vdc
(2)   Configuration_0
(3)   0 Vdc
(4)   Configuration_1
(5)   FE

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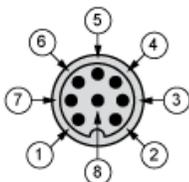
(1)   OSSD1
(2)   + 24 V
(3)   OSSD2
(4)   Configuration_A
(5)   K1_K2 Feeback/Restart
(6)   Configuration_B
(7)   0 Vdc
(8)   FE

Receiver Configurations and Operating Modes

Automatic Start/Restart

Without External Device Monitoring (EDM) feedback loop
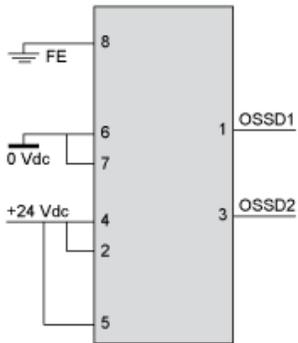
With External Device Monitoring (EDM) feedback loop
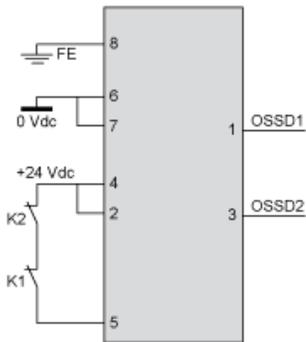
Manual Start/Restart

Without External Device Monitoring (EDM) feedback loop
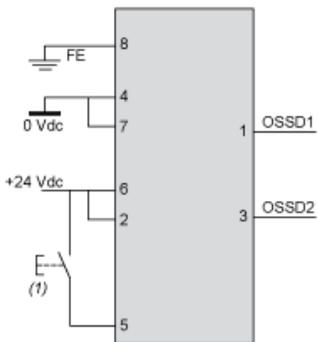
(1)   Restart

With External Device Monitoring (EDM) feedback loop
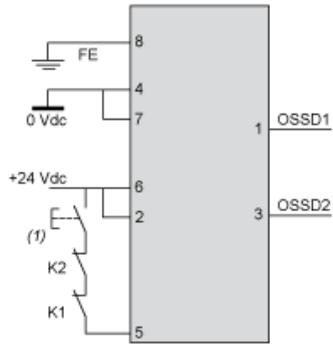
(1)   Restart

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"