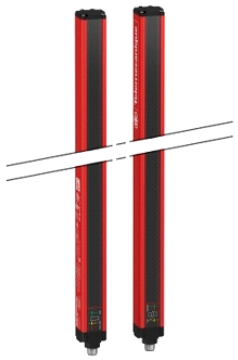
Product datasheet
Characteristics

XUSL4E30H166N



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	1.18 in (30 mm)
[Sn] nominal sensing distance	0...12 m by cabling 0...4 m by cabling
Height protected	65.35 in (1660 mm)
Number of beams	83
Type of start	Automatic Manual
Control type	Selected by wiring

Complementary

Detection system	Transmitter-receiver system
Response time	20.5 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	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
[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 Afor 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	Test Muting through external safety module XPSLCMUT1160 LED display of operating modes and faults
Marking	CE
Material	Casing : aluminium Front panel: polycarbonate End caps: polypropylene
Housing colour	RAL 3000: red
Fixing mode	By fixing brackets
Product weight	6.61 lb(US) (3 kg)

Offer type	Standard distance

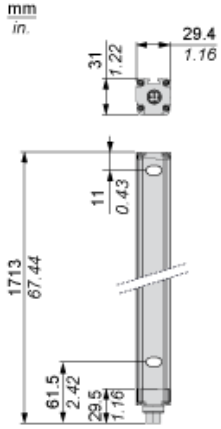
Environment

directives	89/336/EEC - electromagnetic compatibility 2002/96/EC - WEEE directive 2002/95/EC - RoHS directive 98/37/EEC - machinery 89/655/EEC - work equipment
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 = 1.90E-8 1/h conforming to IEC 61508
ambient air temperature for operation	-22...131 °F (-30...55 °C) 14...131 °F
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

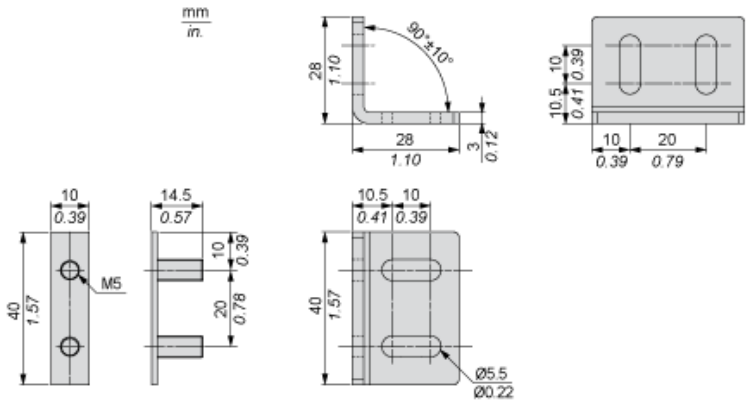
Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 1425 - Schneider Electric declaration of conformity	Compliant - since 1425 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Available	Available
WARNING: This product can expose you to chemicals including:	WARNING: This product can expose you to chemicals including:
Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and	Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and
Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.	Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm.
For more information go to www.p65warnings.ca.gov	For more information go to www.p65warnings.ca.gov

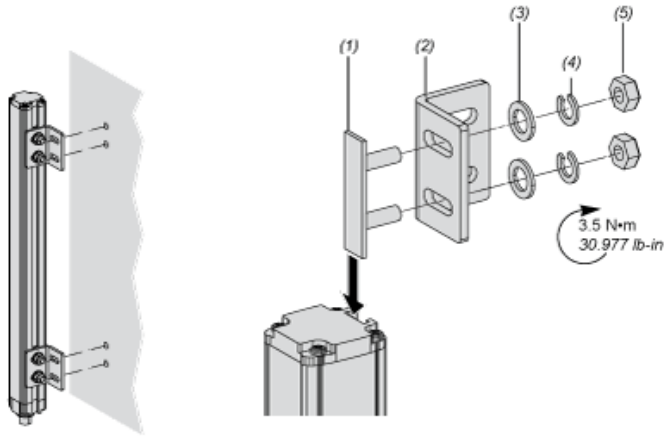
Dimensions



Brackets Dimensions



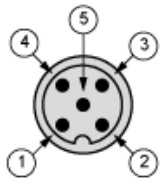
Mounting and Clearance



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

Wiring Diagrams

Transmitter Connections

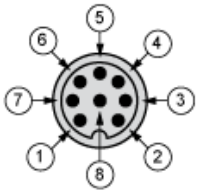


(1) +24 Vdc
(2) Configuration_0
(3) 0 Vdc
(4) Configuration_1
(5) FE

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

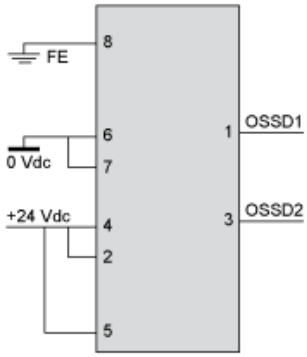


(1) OSSD1
(2) + 24 V
(3) OSSD2
(4) Configuration_A
(5) K1_K2 Feeback/Restart
(6) Configuration_B
(7) 0 Vdc
(8) FE

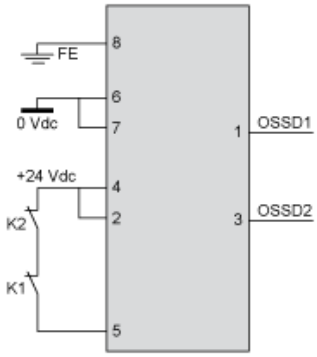
Receiver Configurations and Operating Modes

Automatic Start/Restart

Without External Device Monitoring (EDM) feedback loop

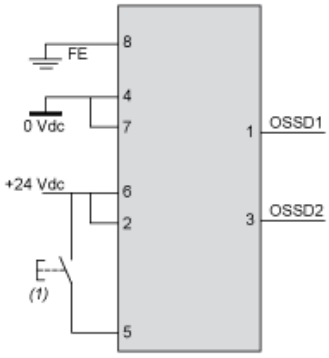


With External Device Monitoring (EDM) feedback loop



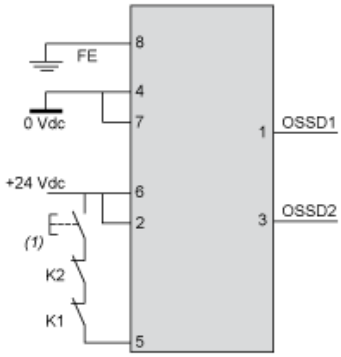
Manual Start/Restart

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"