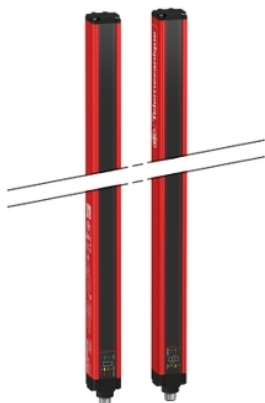# Product data sheet
Characteristics

XUSL4E30H151N

Safety light curtain type 4, Telemecanique Safety light curtains XUSL, XUSL For hand protection, Std sensing range, Hp = 1510 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	1.2 in (30 mm)
[Sn] nominal sensing distance	0.0000000000…39.4 Ft (0…12 m) by cabling 0.0000000000…13.1 ft (0…4 m) by cabling
[Hp] Height protected	59.4 in (1510 mm)
Number of beams	76
Type of start / restart	Automatic Manual
External Device Monitoring (EDM)	Selected by wiring

Complementary

Detection system	Transmitter-receiver system
Response Time	19 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 0.00004 in (950 nm)
[Us] rated supply voltage	24 V DC +/- 20 %
Supply	Power supply IEC 61496-1 Power supply 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 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
Product Weight	6.2 lb(US) (2.8 kg)
Offer type	Standard distance

Environment

Directives	98/37/EEC - machinery 89/336/EEC - electromagnetic compatibility 89/655/EEC - work equipment
Product Certifications	cULus[RETURN]CE[RETURN]TÜV
Safety level (correctly wired)	Type 4 IEC 61496-1 SIL 3 IEC 61508 SILCL 3 IEC 62061 Category 4 ISO 13849-1 PL = e ISO 13849-1
Optical characteristic	Resistance to light disturbance IEC 61496-2
Mission time	20 year(s)
Safety reliability data	PFHd = 1.78E-8 1/h IEC 61508
Ambient Air Temperature for Operation	-10.0000002…55.0 °C (14…131 °F) -22.0000000000…131.0000000000 °F (-30…55 °C)
Ambient Air Temperature for Storage	-25.0000002…70.0 °C (-13…158 °F) -31.0000000000…158.0000000000 °F (-35…70 °C)
Relative Humidity	0…95 % without condensation
IP degree of protection	IP65 IP67
Shock resistance	10 gn 16 ms IEC 61496-1
Vibration resistance	0.35 +/- 0.05 mm 10…55 Hz)IEC 61496-1

Ordering and shipping details

Category	US10DS222455
Discount Schedule	0DS2
GTIN	3389119618403
Returnability	No
Country of origin	IT

Packing Units

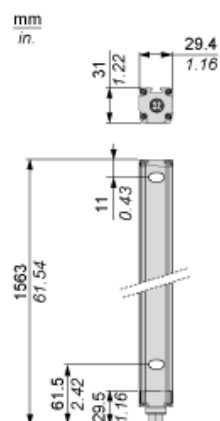| Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	63.780 in (162.000 cm)
Package 1 Width	7.874 in (20.000 cm)
Package 1 Length	5.709 in (14.500 cm)
Package 1 Weight	11.433 lb(US) (5.186 kg)

Offer Sustainability

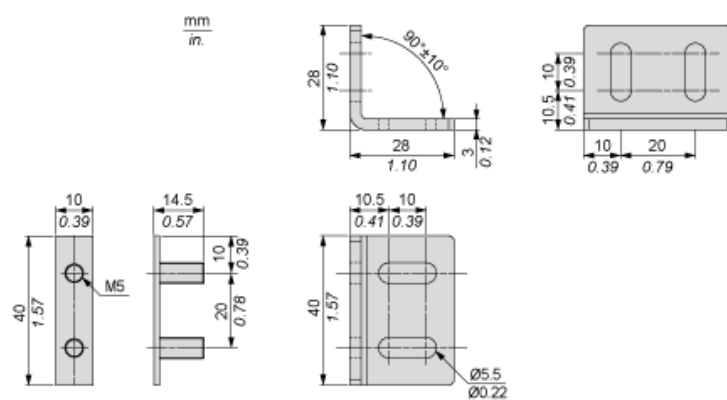| Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
Toxic heavy metal free	Yes
For all Reach Rohs enquiries contact us at	sustainability@tesensors.com

Contractual warranty

Warranty	18 months

Dimensions

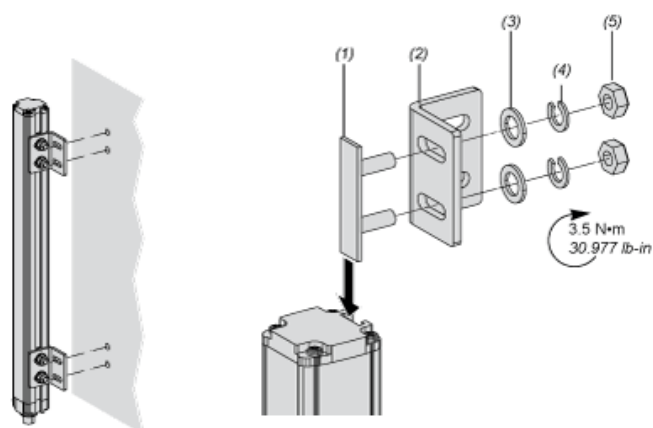## Brackets Dimensions

Mounting and Clearance
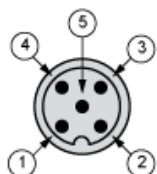

(1)   Insert
(2)   Bracket
(3)   Washer
(4)   Spring washer
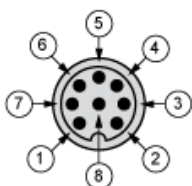(5)   Nut

Wiring Diagrams

Transmitter Connections

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

Transmitter configurations and operating modes

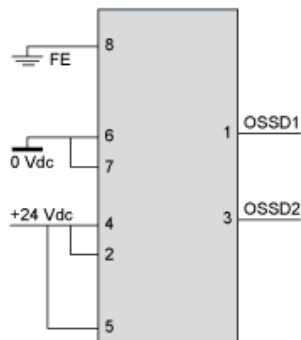|	High range option	Low range option	Transmitter in Test state	Forbidden wiring
Pin 4 : Configuration_1	24 V	0 V	0 V	24 V
Pin 2 : Configuration_0	0 V	24 V	0 V	24 V

Receiver Connections

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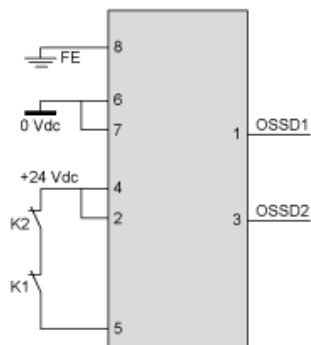(6) Configuration_B
(7) 0 Vdc
(8) FE

Receiver Configurations and Operating Modes

Automatic Start/Restart

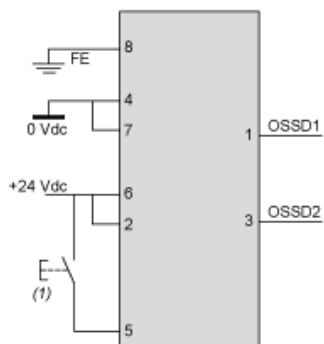Without External Device Monitoring (EDM) feedback loop

With External Device Monitoring (EDM) feedback loop
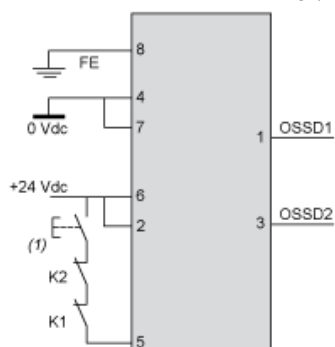

Manual Start/Restart

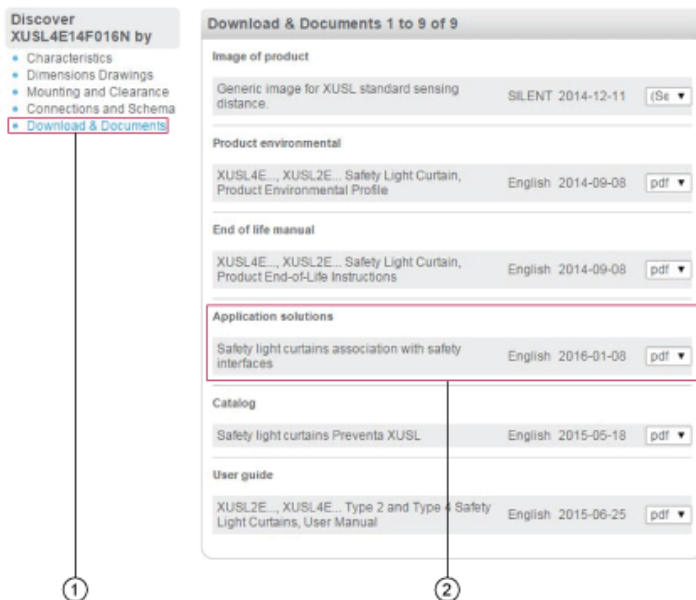Without External Device Monitoring (EDM) feedback loop

(1)   Restart

With External Device Monitoring (EDM) feedback loop

(1)   Restart

Connecting to a Safety Interface

Telemecanique
Sensors

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"