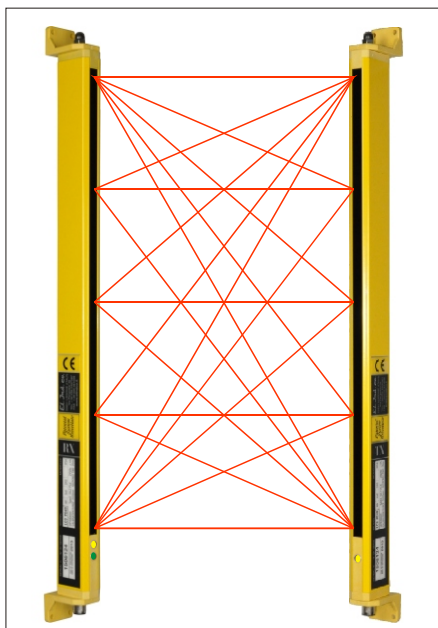


# LC3 - P160

Safety Light Curtain TYPE 3 - SIL 2 SILCL 2 PL d  
 Safety Light Curtain TYPE 4\* - SIL 3\* SILCL 3 PL e



Resolution	160 mm - body
Protected Height	320 ÷ 1920 mm
Range	HP ÷ 30 meters
Output	2 switches - ON/OFF
Directives	2006/42/EC - 2014/30/EC - 2014/35/EC
Standards	CEI-EN 61496-1:2014 - CEI-EN 61496-2:2014
Certificate	N.0068/ETI - MAC/029-2015

Light curtain Type3(\*) self resetting with :

- EDM function = External Device Monitoring
- TEST INPUT

- SRS = manual start restart after an intervention and switch on the device by choosing the option SRS

The light curtain is supplied in series with a connector output M12 and with orientable support brackets (SMO)

(\*) Upgrading to TYPE 4 through a control unit BOX2/4 which implements the following functions :

- Outputs 2 switches 5A/250V (safety relays)
  - Led Diagnostic for failures signalling
  - Contact AUX (Auxiliary) NC normally closed
- EDM (External Device Monitoring)

## PROTECTED AREAS HEIGHT

Product Code	Protected Height mm HP	Total Height mm H / SMO	Total Height mm H / SEA	Response time ms	Number of controlled rays
LC3 - P160	320	445	395	12	2x2
LC3 - P160	640	765	715	14	3x3
LC3 - P160	960	1085	1035	16	4x4
LC3 - P160	1280	1405	1355	18	5x5
LC3 - P160	1600	1725	1675	20	6x6
LC3 - P160	1920	2045	1995	22	7x7



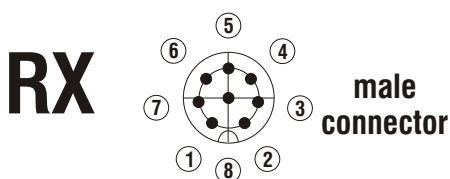
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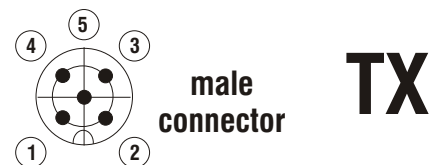
The manufacturer reserves the right to modify the products and the details of this TECHNICAL SHEET at any time without prior notification EL.IND.CO. It is not responsible for any improper use of its products.

Safety Category	TYPE 3 - SIL 2 SILCL2 PL d / TYPE 4* - SIL 3* SILCL3 PL e
Power Supply	24Vdc ± 10%
Absorption TX unit	80 mA max
Absorption RX unit	70 mA max
Output	2 switches SW1 - SW2 (ON/OFF) free from potential 0,3 Acc @ 24Vdc/ac
Output Protection	Short circuit and overcharge through self restoring fuses. After an overcharge or shortcircuit it is necessary to power off and wait some seconds before the normal working restart
LED Signallings	<p><b>TX Unit</b></p> <ul style="list-style-type: none"> <li>- Yellow Led = Power Supply</li> </ul> <p><b>RX Unit</b></p> <p><b>BICOLOR LED</b></p> <ul style="list-style-type: none"> <li>Green = Active Protection</li> <li>Red = Alarm</li> <li>- Yellow Led = Manual Operation</li> </ul> <p>Note : for more insight into the light signals see Chapter <b>INSTALLATION - WIRING - DIAGNOSTICS</b> of <b>INSTRUCTION MANUAL</b></p>
Housing	Polished aluminium RAL1021
Housing Section	22 x 36 mm
Protection Degree	IP54 (opzional IP67 - IP69K)
Working Temperature	0 / +55 °C
PFHd	10 <sup>-8</sup> until to < 10 <sup>-7</sup>
RX Connection	Fully shielded cable PUR/PP - lenght 10 meters pre-wires with connector female straight M12 8 poles (non included in the supply)
TX Connection	Fully shielded cable PUR/PP - lenght 10 meters pre-wires with connector female straight M12 5 poles (non included in the supply)
Fixing	SMO - orientable support brackets (standard version) SEA - antivibrating elastic supports (optional)

PIN OUT CONNECTOR M12



- 1) White = EDM / (SRS optional)
  - 2) Brown = + 24Vdc
  - 3) Green = SW1
  - 4) Yellow = SW2
  - 5) Grey =
  - 6) Pink =
  - 7) Blue = -
  - 8) Red = MODE
  - Shield =
- } CONTACTS IN ALARM STATE



- 1) Brown = + 24Vcc
- 2) White = TEST INPUT
- 3) Blue = -
- 4) Black = TEST INPUT
- 5) Grey = N.C.
- Shield =

**TEST INPUT** = Opening contact TEST INPUT (PIN2/4) is simulated the interruption of the curtain and testing the correct opening of the outputs SW1 - SW2 of the receiving unit



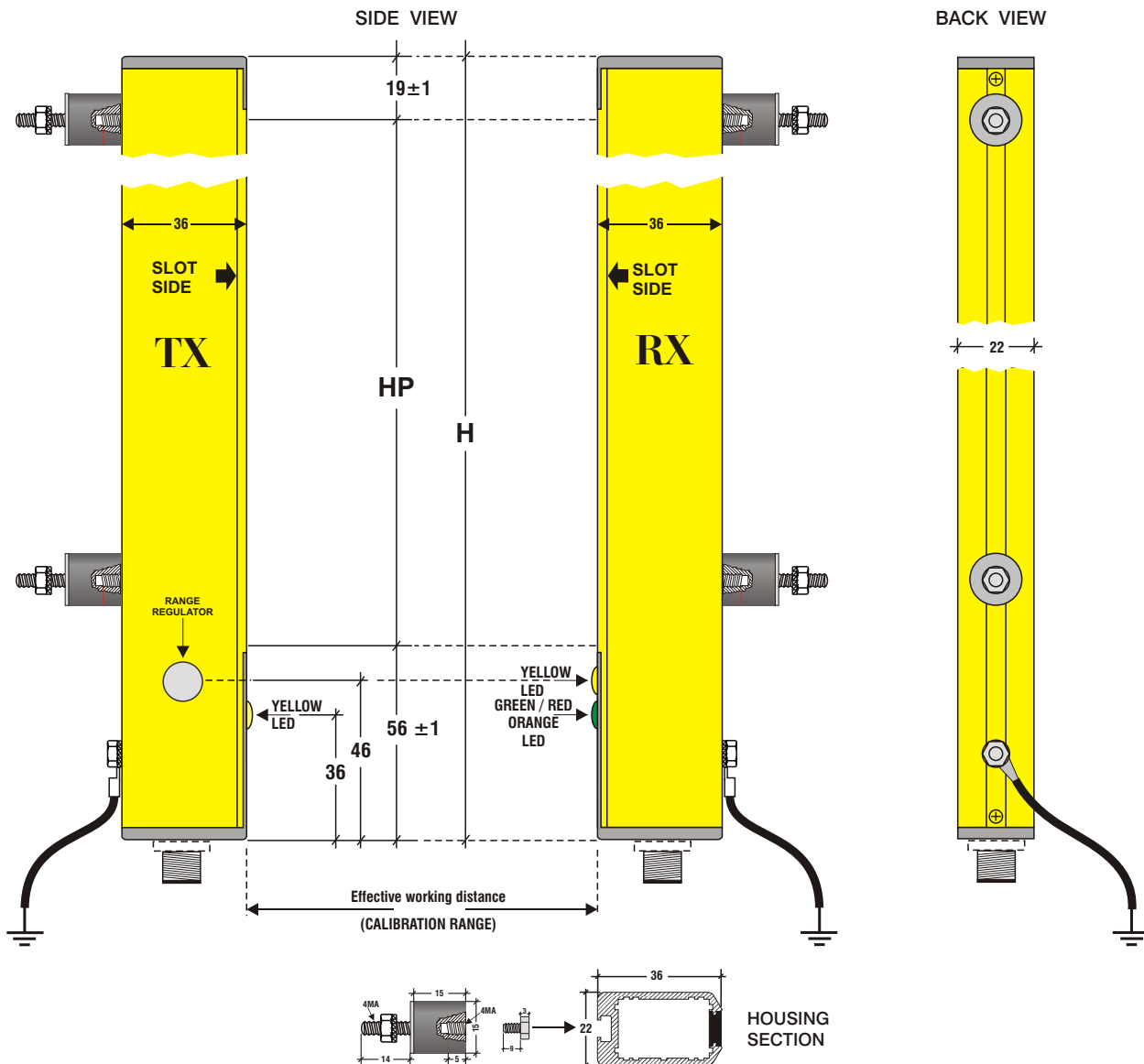
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VERSION MOUNTING SOLUTION "SEA" (OPTIONAL)

Fig.3



Note :

With the SEA fixing solution, a number of anti-vibration elastic supports proportional to the total height H, are inserted at the factory in the rear rail of the light curtain, as shown in Fig.3.

The antivibrating elastic supports can slide freely in the rear guide so as to facilitate the final mounting at the desired points.

This solution allows to reduce the total dimensions while maintaining the ability to meet the mechanical vibrations.

Additional antivibrating elastic supports can be requested by the customer when ordering.

OPTIONS

SRS	Manual Restart
SEA	Antivibrating elastic supports (see Fig.3)
CB60 IP67	IP67 protection in transparent cylindric
CB60 IP69K	IP69K protection in transparent cylindric

ACCESSORIES

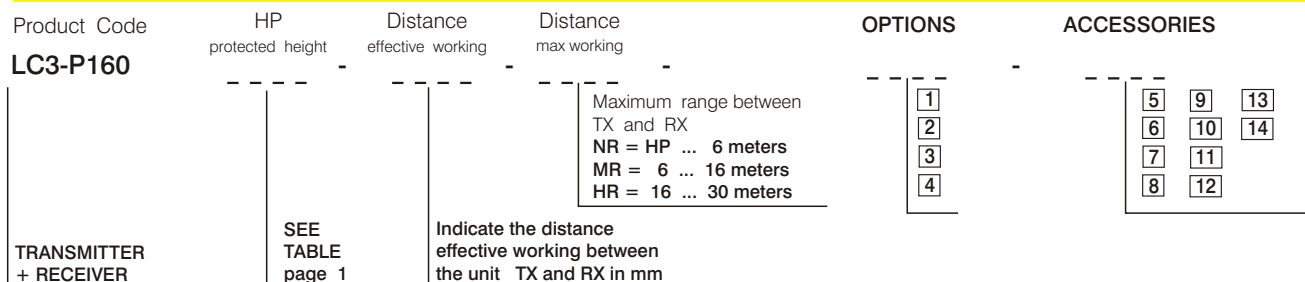
COD 5	Fully shielded cable PUR/PP - lenght 10 meters pre-wires with connector female straight M12 5 poles (non included in the supply)
COD 8	Fully shielded cable PUR/PP - lenght 10 meters pre-wires with connector female straight M12 8 poles (non included in the supply)
BOX 2/4 (*)	External control unit for TYPE 4 upgrading
BOX - MUT	External control unit for neutralization MUTING
SPV100	Mirror column for enclosures (depending on the HP protected of the light curtain, check on the respective technical sheet SPV100 the HU of the mirror)
SPV100 PLUS	Mirror column <b>UNBREAKABLE</b> for enclosures (depending on the HP protected of the light curtain, check on the respective technical sheet SPV100PLUS the HU of the mirror)
BTO	Orientable Ground Base in INOX 135x150mm to use with SPV100 - SPV100 PLUS
COLV	Triangular column to allocate the light curtain for construction enclosures
COLV + BTO	Triangular column to V + Orientable Ground Base in INOX 135x150mm to use with SPV100 - SPV100 PLUS
KIT - 8A	Kit of N°. 8 antivibrating elastic supports including the respective screws to be applied to SMO brackets (upper / lower) as shown in Fig.2

HOW TO ORDER THE OPTIONS and THE ACCESSORIES

SRS	1	COD 5	5
SEA	2	COD 8	6
CB60 IP67	3	BOX 2/4	7
CB60 IP69K	4	BOX MUT	8
		SPV100	9
		SPV100 PLUS	10
		BTO	11
		COLV	12
		COLV + BTO	13
		KIT - 8A	14

INSERT NUMBER CORRESPONDING IN ORDER LIGHT CURTAIN

HOW TO ORDER THE LIGHT CURTAIN



Example: LC3 - P160 - 1600 - 1000 - NR + [1][2]- - + [5][6][7]- - - - -



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