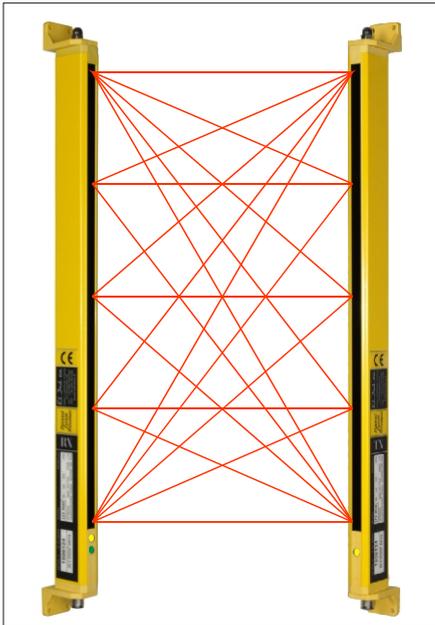


LC3 - P120

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



| | |
|------------------|---|
| Resolution | 120 mm - body |
| Protected Height | 240 ÷ 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 - P120 | 240 | 365 | 315 | 12 | 2x2 |
| LC3 - P120 | 480 | 605 | 555 | 14 | 3x3 |
| LC3 - P120 | 720 | 845 | 795 | 16 | 4x4 |
| LC3 - P120 | 960 | 1085 | 1035 | 18 | 5x5 |
| LC3 - P120 | 1200 | 1325 | 1275 | 20 | 6x6 |
| LC3 - P120 | 1440 | 1565 | 1515 | 22 | 7x7 |
| LC3 - P120 | 1680 | 1805 | 1755 | 24 | 8x8 |
| LC3 - P120 | 1920 | 2045 | 1995 | 26 | 9x9 |



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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>TX Unit</p> <ul style="list-style-type: none"> - Yellow Led = Power Supply <p>RX Unit</p> <p>BICOLOR LED</p> <ul style="list-style-type: none"> Green = Active Protection Red = Alarm - Yellow Led = Manual Operation <p>Note : for more insight into the light signals see Chapter INSTALLATION - WIRING - DIAGNOSTICS of INSTRUCTION MANUAL</p> |
| Housing | Polished aluminium RAL1021 |
| Housing Section | 22 x 36 mm |
| Protection Degree | IP54 (opzionale IP67 - IP69K) |
| Working Temperature | 0 / +55 °C |
| PFHd | 10 ⁻⁸ until to < 10 ⁻⁷ |
| 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

RX

male connector

- 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

TX

male connector

- 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

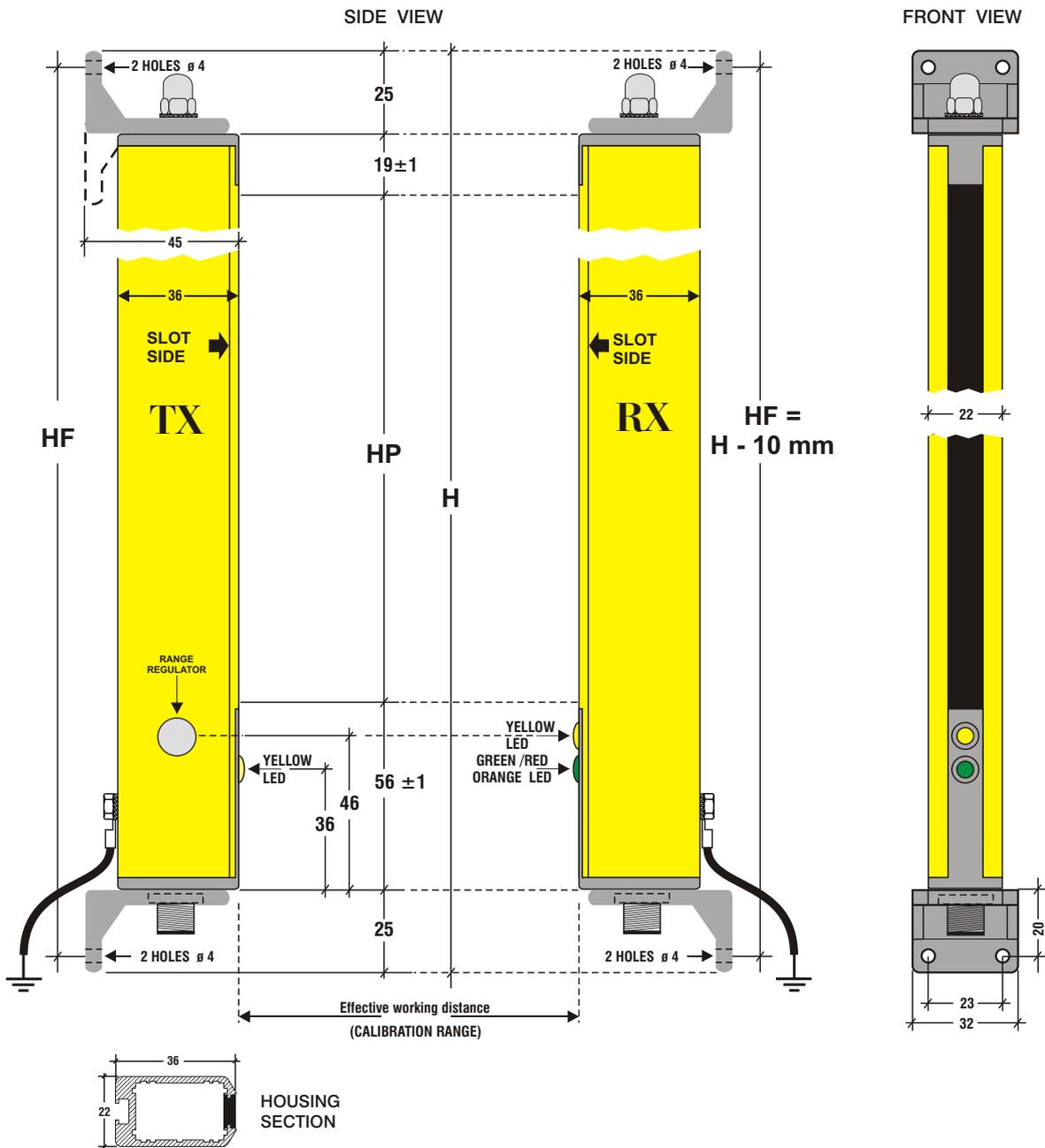


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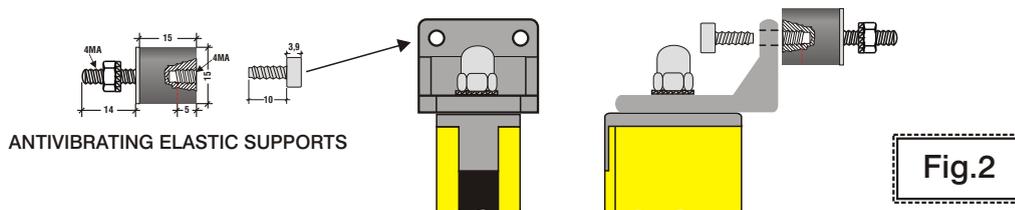
VERSION MOUNTING SOLUTION "SMO" (STANDARD)

Fig.1



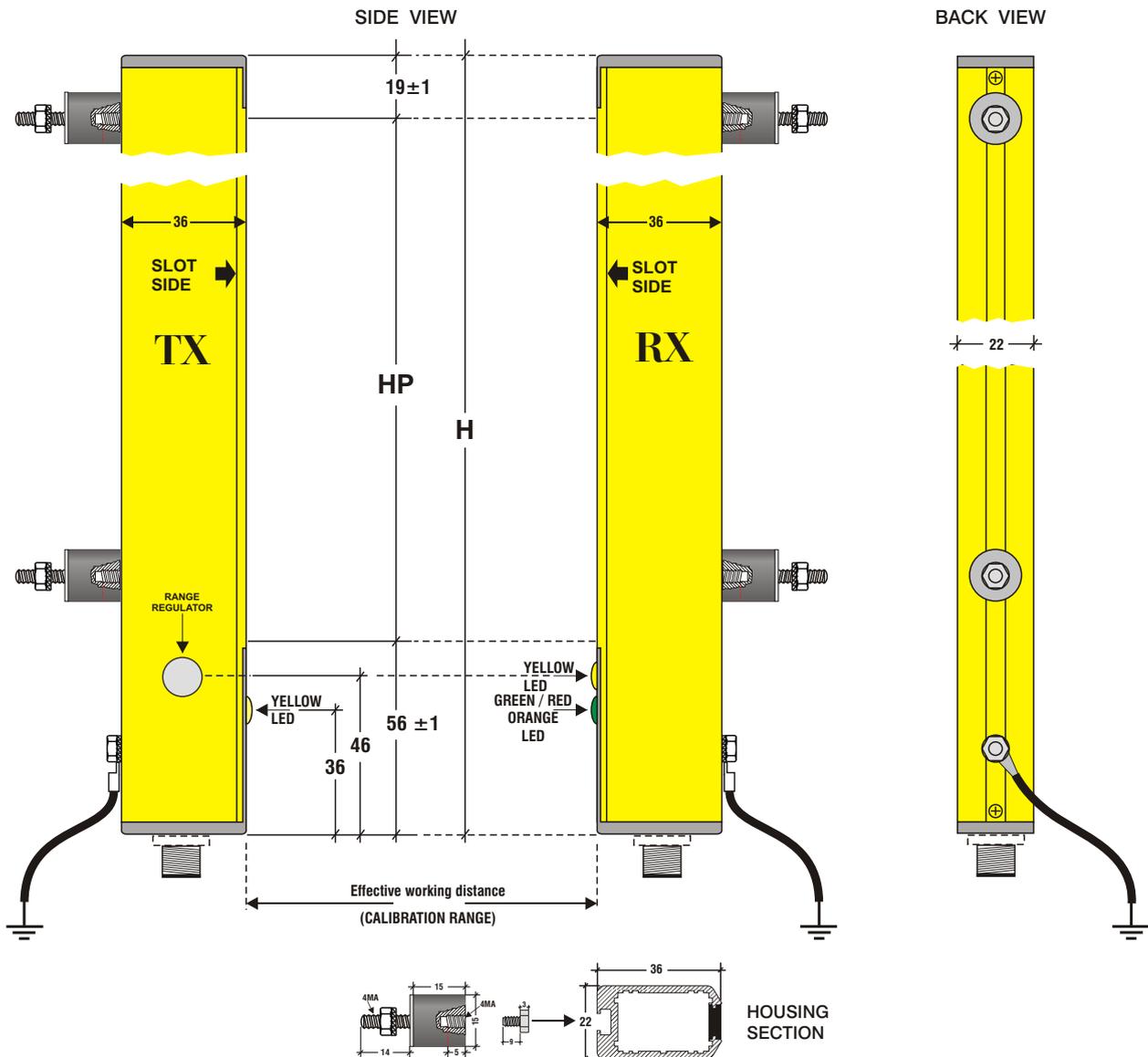
KIT - 8A (accessory)

Separately you can purchase KIT - 8A (see ACCESSORIES section) consists of a box of N° 8 antivibrating elastic supports, inclusive of the respective screws, to apply to SMO brackets (upper/lower) as shown in Fig.2.



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

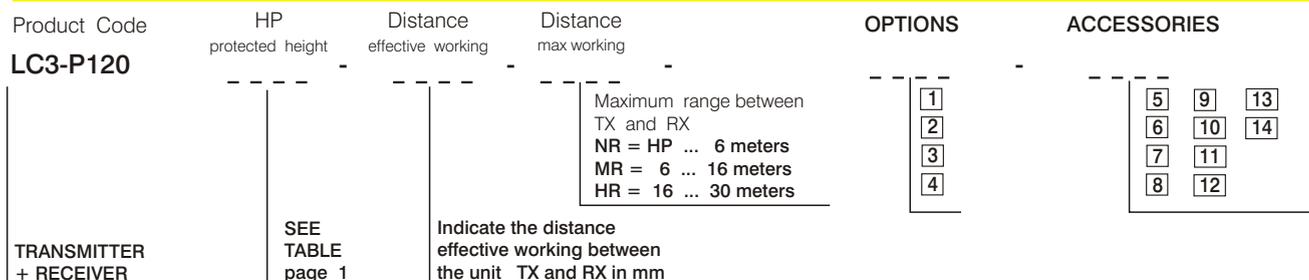
| | |
|-------------|---|
| COD 5 | Fully shielded cable PUR/PP - lenght 10 meters pre-wires with connector female straight M12 5 poles (non included in the supply) |
| COD 8 | Fully shielded cable PUR/PP - lenght 10 meters pre-wires with connector female straight M12 8 poles (non included in the supply) |
| 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 UNBREAKABLE 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 - P120 - 480 - 1000 - NR + [1][2][][] + [5][6][7][][][][][][][][]



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