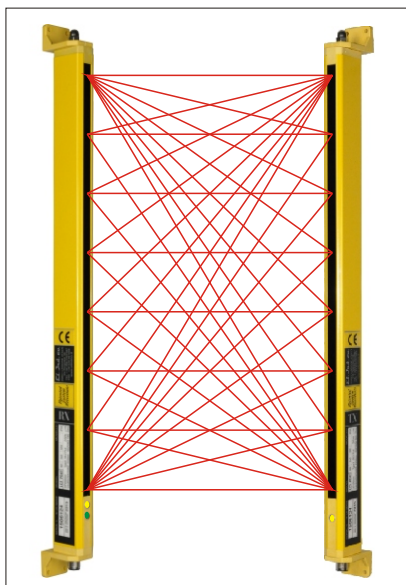


LC3 - P018

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



Resolution	18 mm - finger
Protected Height	108 ÷ 1260 mm
Range	HP ÷ 16 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

Lightcurtain Type 3 (*) 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 BOX 2/4 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 - P018	108	233	183	16	4x4
LC3 - P018	144	269	219	18	5x5
LC3 - P018	180	305	255	20	6x6
LC3 - P018	216	341	291	22	7x7
LC3 - P018	252	377	327	24	8x8
LC3 - P018	288	413	363	26	9x9
LC3 - P018	324	449	399	28	10x10
LC3 - P018	360	485	435	30	11x11
LC3 - P018	396	521	471	32	12x12
LC3 - P018	432	557	507	34	13x13
LC3 - P018	468	593	543	36	14x14
LC3 - P018	504	629	579	38	15x15
LC3 - P018	540	665	615	40	16x16
LC3 - P018	576	701	651	42	17x17
LC3 - P018	612	737	687	44	18x18
LC3 - P018	648	773	723	46	19x19
LC3 - P018	684	809	759	48	20x20
LC3 - P018	720	845	795	50	21x21
LC3 - P018	756	881	831	52	22x22
LC3 - P018	792	917	867	54	23x23
LC3 - P018	828	953	903	56	24x24
LC3 - P018	864	989	939	58	25x25
LC3 - P018	900	1025	975	60	26x26
LC3 - P018	936	1061	1011	62	27x27
LC3 - P018	972	1097	1047	64	28x28
LC3 - P018	1008	1133	1083	66	29x29
LC3 - P018	1044	1169	1119	68	30x30
LC3 - P018	1080	1205	1155	70	31x31
LC3 - P018	1116	1241	1191	72	32x32
LC3 - P018	1152	1277	1227	74	33x33
LC3 - P018	1188	1313	1263	76	34x34
LC3 - P018	1224	1349	1299	78	35x35
LC3 - P018	1260	1385	1335	80	36x36



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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 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 (opzional 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

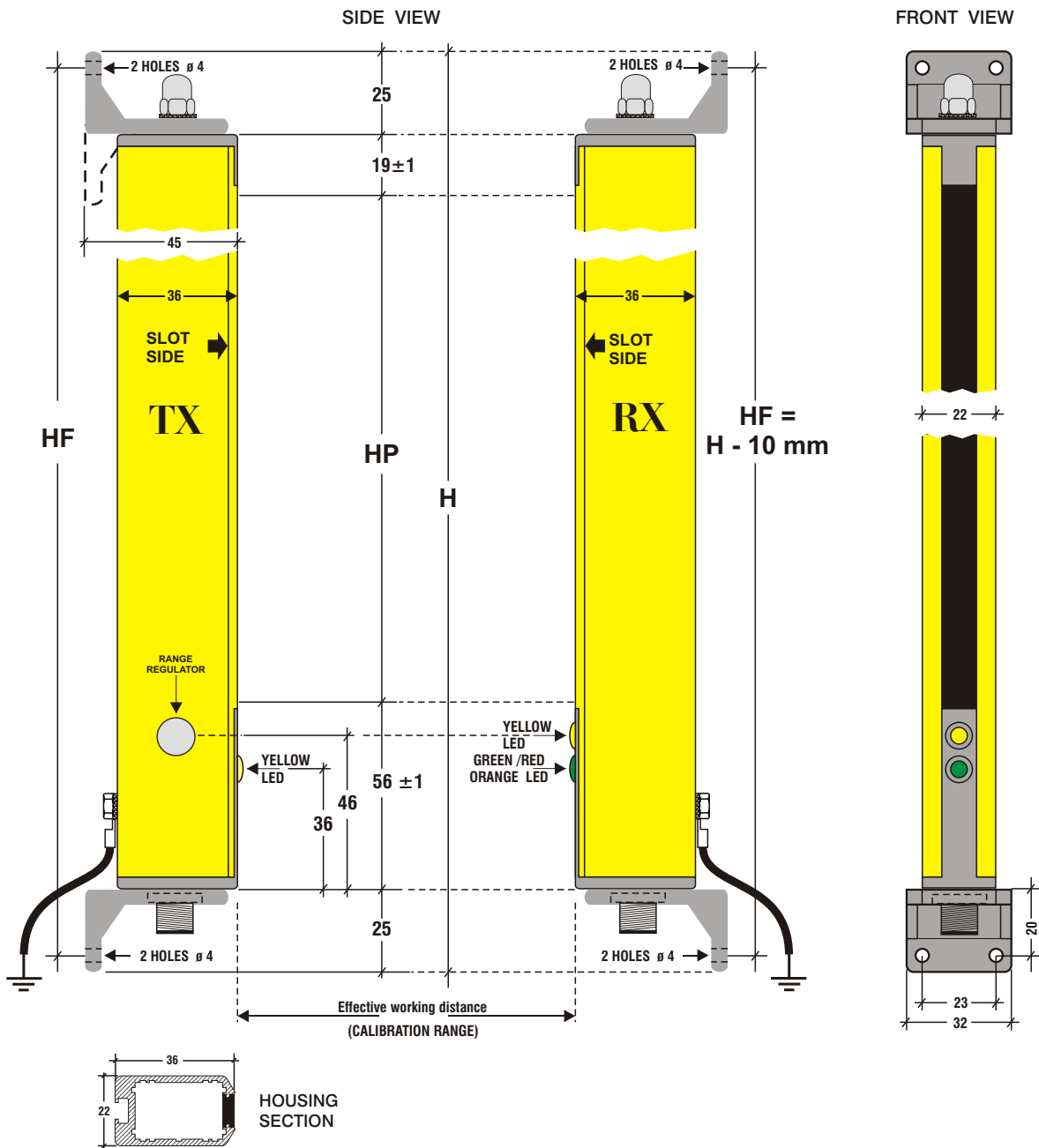


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VERSION MOUNTING SOLUTION "SMO" (STANDARD)

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.

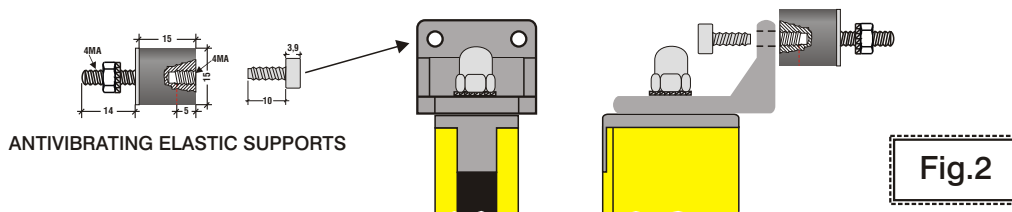
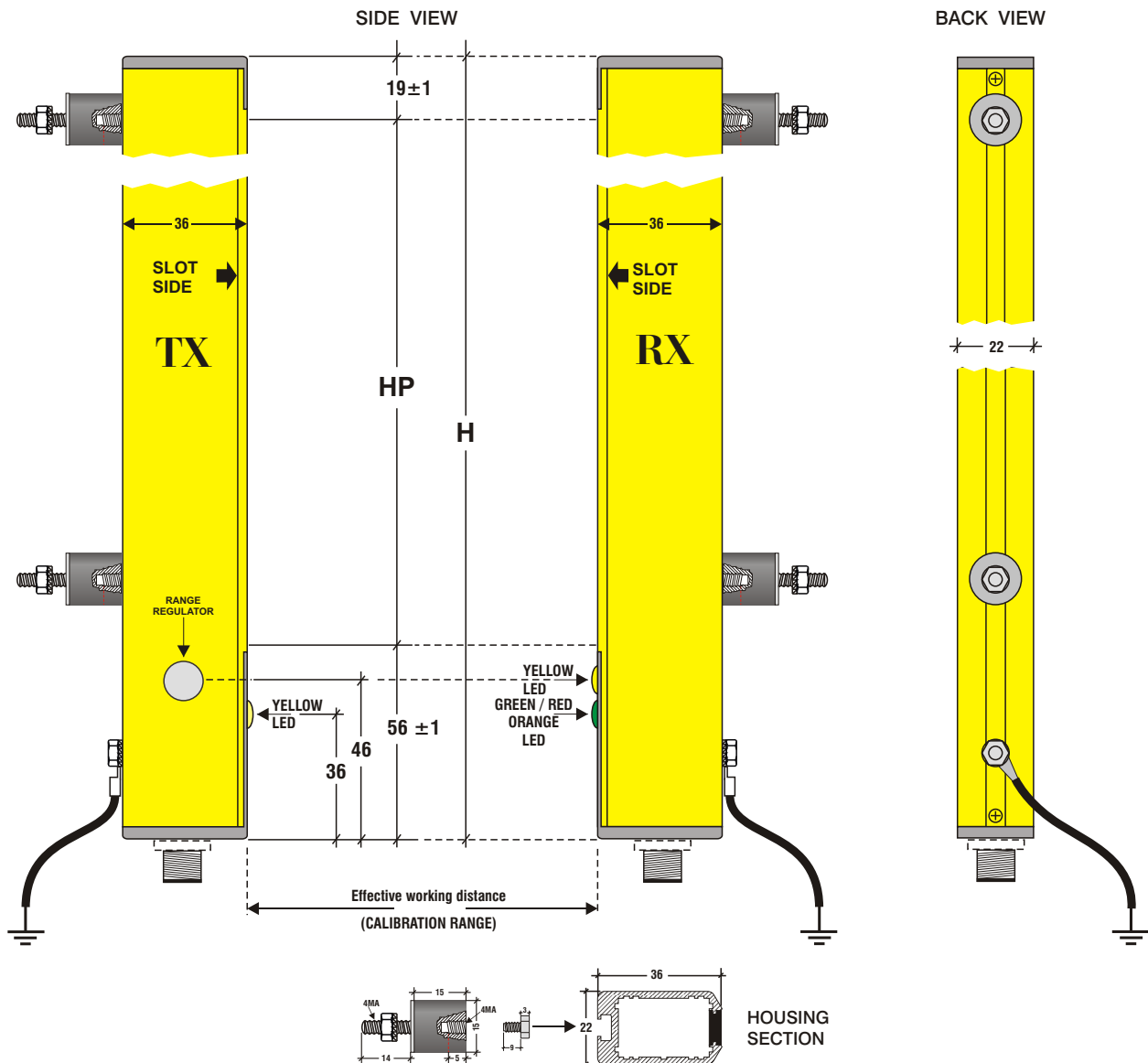


Fig.2

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

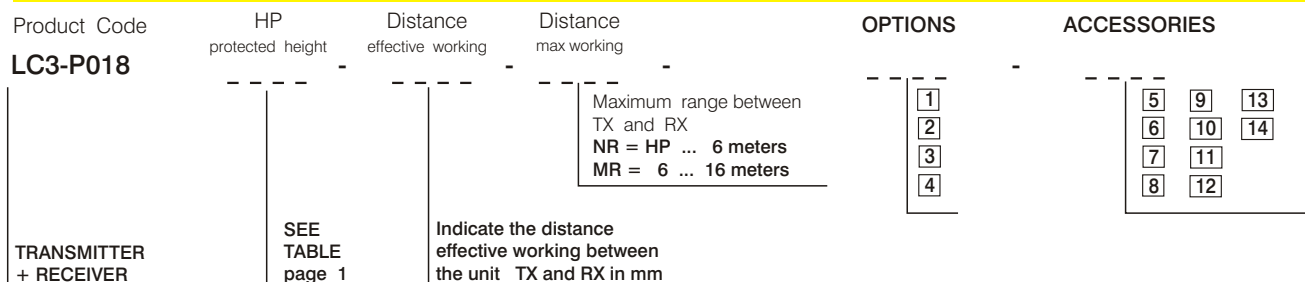
COD 5	Fully shielded cable PUR/PP - lenght 10 meters pre-wires with connector female straight M12 5 poles (non included in the supply)
COD 8	Fully shielded cable PUR/PP - lenght 10 meters pre-wires with connector female straight M12 8 poles (non included in the supply)
BOX 2/4 (*)	External control unit 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 - P018 - 216 - 1000 - NR + [1][2] - - + [5][6][7] - - - - - - - -



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