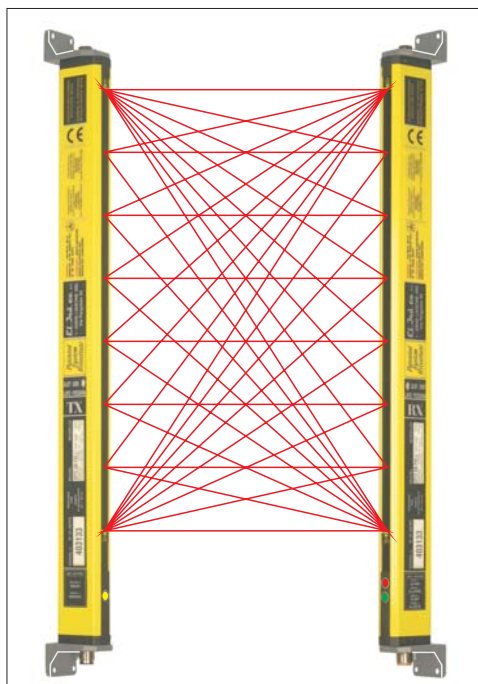


OPT3 SMC P018

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



Resolution	18 mm - finger
Protected Height	144 ÷ 1152 mm
Range	HP ÷ 16 meters
Output	2 switches - ON/OFF
Directives	2006/42/EC - 2004/108/EC - 2006/95/EC
Standards	CEI-EN 61496/1 - CEI-CLC/TS 61496-2
Certificate	N.0068/ETI - MAC/001-2010 Rev.2

Safety Light Curtain Type 2 (*) with the following functions :

Start/Restart : automatic restart of the logic state of the device after an intervention and at its powering on (Standard Model)

SRS/EDM : SRS = start restart automatic /manual after an intervention and at its powering on + EDM (External Device Monitoring) choosing the option SRS/EDM

Test Input

It 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 (mobile concatenated relays) - **Led Diagnostic** for failures signalling and detection
- **EDM** (External Device Monitoring) - **Contact AUX (Auxiliary) NC** normally closed

PROTECTED AREAS HEIGHT

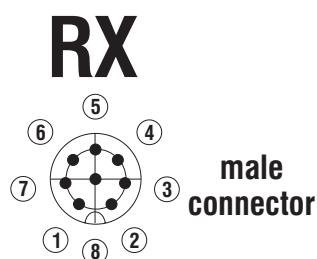
Product Code	Protected Height HP mm	Total height H mm	Response time ms	Number of controlled rays
OPT3-SMC-P018-0144	144	309	23	5x5
OPT3-SMC-P018-0180	180	345	25	6x6
OPT3-SMC-P018-0216	216	381	28	7x7
OPT3-SMC-P018-0252	252	417	30	8x8
OPT3-SMC-P018-0288	288	453	33	9x9
OPT3-SMC-P018-0324	324	489	35	10x10
OPT3-SMC-P018-0360	360	525	38	11x11
OPT3-SMC-P018-0396	396	561	40	12x12
OPT3-SMC-P018-0432	432	597	43	13x13
OPT3-SMC-P018-0468	468	633	45	14x14
OPT3-SMC-P018-0504	504	669	48	15x15
OPT3-SMC-P018-0540	540	705	50	16x16
OPT3-SMC-P018-0576	576	741	53	17x17
OPT3-SMC-P018-0612	612	777	55	18x18
OPT3-SMC-P018-0648	648	813	58	19x19
OPT3-SMC-P018-0684	684	849	60	20x20
OPT3-SMC-P018-0720	720	885	63	21x21
OPT3-SMC-P018-0756	756	921	65	22x22
OPT3-SMC-P018-0792	792	957	68	23x23
OPT3-SMC-P018-0828	828	993	70	24x24
OPT3-SMC-P018-0864	864	1029	73	25x25
OPT3-SMC-P018-0900	900	1065	75	26x26
OPT3-SMC-P018-0936	936	1101	78	27x27
OPT3-SMC-P018-0972	972	1137	80	28x28
OPT3-SMC-P018-1008	1008	1173	83	29x29
OPT3-SMC-P018-1044	1044	1209	85	30x30
OPT3-SMC-P018-1080	1080	1245	88	31x31
OPT3-SMC-P018-1116	1116	1281	90	32x32
OPT3-SMC-P018-1152	1152	1317	93	33x33



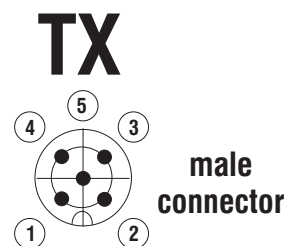
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Safety Category	TYPE 2 - SIL 2 SILCL 2 PL d / TIPO 4* - SIL 3* SILCL 3 PL e
Power Supply	24Vdc $\pm$ 10%
Absorption TX Unit	80 mA max
Absorption RX Unit	70 mA max
Output	2 switches SW1 - SW2 (ON/OFF) free from potential 200 mA dc @ 24Vdc
Output Protection	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	TX Unit - Yellow Led = Power Supply RX Unit - Green Led = Active Protection - Red Led = Alarm - Orange Led ON = Manual Operation - Orange Led blinking = Waiting for RESTART - Orange Led OFF = Automatic Operation <i>present only with the OPTION SRS/EDM</i>
Housing	Polished aluminium RAL1021
Housing Section	22 x 36 mm
Protection Degree	IP54 (option IP67 - IP69K)
Working Temperature	0 / +55 °C
RX Connection	Connector M12 female 8 poles shielded - lenght 10 meters
TX Connection	Connector M12 female 5 poles shielded - lenght 10 meters
Fixing	SMO (orientable support brackets)

CONNECTION ELECTRIC DIAGRAM (Standard Model)


- 1) White = N.C.
- 2) Brown = + 24Vdc
- 3) Green = SW1
- 4) Yellow = SW2
- 5) Grey =
- 6) Pink =
- 7) Blue =
- 8) Red = N.C.
- Shield =

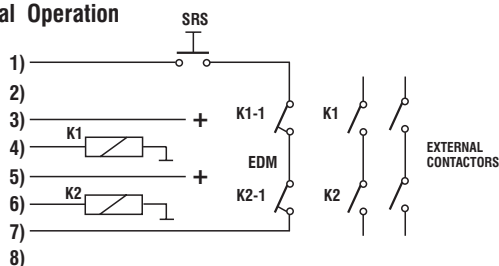


- 1) Brown = + 24Vdc
- 2) White = TEST INPUT
- 3) Blue =
- 4) Black = TEST INPUT
- 5) Grey = N.C.
- Shield =

TEST INPUT = Connect the 2 threads, white and black is simulated the interruption of the curtain test the correct opening of the outputs SW1 - SW2 of the receiving unit

RX**Manual Operation**

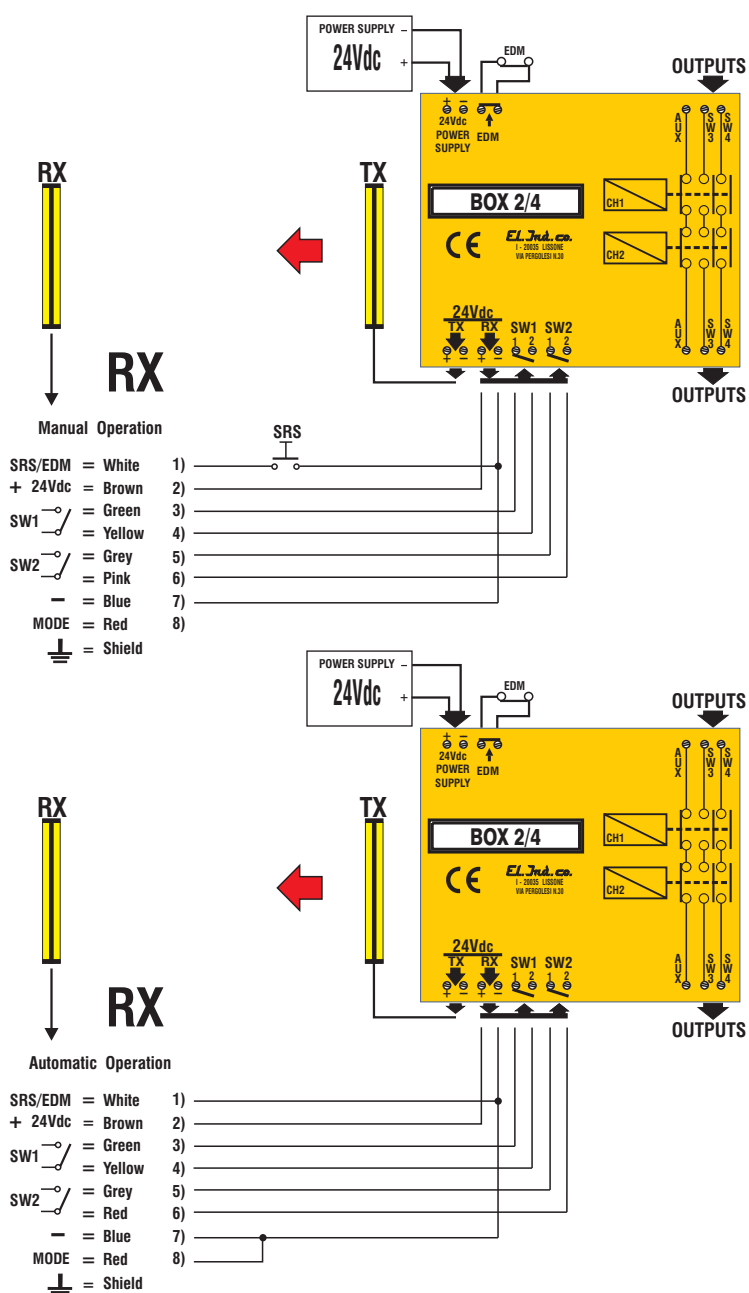
SRS/EDM = White
 + 24Vdc = Brown
 SW1 = Green
 SW2 = Yellow
 = Grey
 = Pink
 - = Blue
 MODE = Red
 = Shield

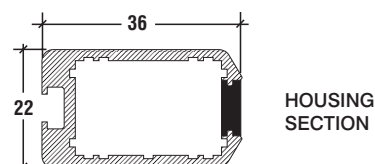
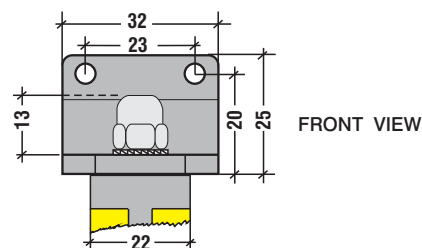
**Table Operative Mode**

	RED	WHITE ⁽¹⁾	
	MODE	SRS	EDM
AUTOMATIC	0 Volt	X	✓/X
MANUAL	NC	✓	✓/X

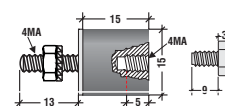
⁽¹⁾Leave close if not used**To connect the TX** refer to the diagram on page 2

CONNECTION ELECTRIC DIAGRAM (model Type 4 with option SRS/EDM)



[illegible]

$$HF = H - 10 \text{ mm}$$



SUPPEL70 =
Elastic supports
antivibrating sliding
on all the lenght
(OPTIONS)

SRS / EDM	Start Restart automatic/manual + EDM (External Device Monitoring)
OUTPUT CABLE	Output with direct cable length 5 meters
SUPPEL 70	Supports for the direct mounting of the profile (not orientable)
CB60 IP67	IP67 protection
CB60 IP69K	IP69K protection

COD 5	Cable TX M12 - 5 poles shielded 10 meters included in the supply
COD 8	Cable RX M12 - 8 poles shielded 10 meters included in the supply
BOX 2/4 (*)	External control unit for TYPE 4 upgrading
BOX-MUT	External control unit for neutralization - MUTING
SPV100	Mirrors at V for enclosures
SPV100 PLUS	Mirrors at V UNBREAKABLE for enclosures

Product Code	Distance	Mounting	OPTIONS (°°)	Maximum Range between TX and RX
OPT3-SMC-P018-0900 - - - -	- - - -	SMO -	- - - -	NR = HP ... 6 meters MR = 6 ... 16 meters

To be indicated on the order. The Light Curtain will be supplied pre-calibrated for an **immediate adjustment**

Example : OPT3 SMC-P018-0900 - 1000 - NR - SMO - SRS/EDM



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