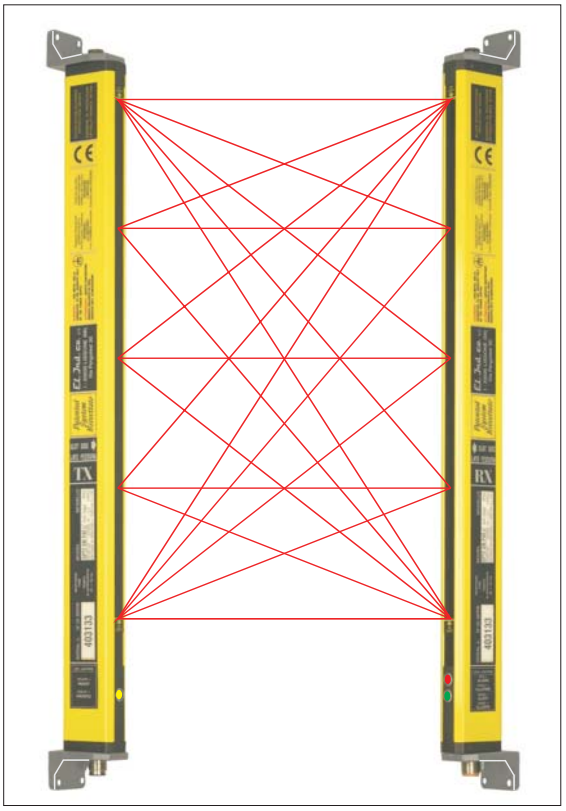
OPT3 SMC P080

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



Resolution	**80 mm - arm**
Protected Height	**320÷1920 mm**
Range	**HP ÷ 30 meters**
Output	**2 switches - ON/OFF**
Directives	**2006/42/EC - 2004/108/EC - 2006/95/EC**
Stardards	**CEI-EN 61496/1 - CEI-CLC/TS 61496-2**
Certificate	**N.0068/ETI - MAC/001-2010 Rev.2**

Safety Light Curtian 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 BOX 2/4 which implements the following functions :
- **Outputs** - 2 switches 5A/250V (mobile concatenated relays)
- **EDM** (External Device Monitoring)
- **Led Diagnostic** for failures signalling and detection
- **Contact AUX (Ausiliary) 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-P080-0320	320	485	18	3x3
OPT3-SMC-P080-0480	480	645	20	4x4
OPT3-SMC-P080-0640	640	805	23	5x5
OPT3-SMC-P080-0800	800	965	25	6x6
OPT3-SMC-P080-0960	960	1125	28	7x7
OPT3-SMC-P080-1120	1120	1285	30	8x8
OPT3-SMC-P080-1280	1280	1445	33	9x9
OPT3-SMC-P080-1440	1440	1605	35	10x10
OPT3-SMC-P080-1600	1600	1765	38	11x11
OPT3-SMC-P080-1760	1760	1925	40	12x12
OPT3-SMC-P080-1920	1920	2085	43	13x13

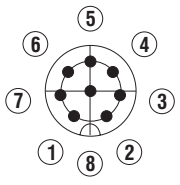
TECHNICAL FEATURES

OPT3 SMC P080

Safety Category	TYPE 2 - SIL 2 SILCL 2 PL d / TIPO 4* - SIL 3* SILCL 3 PL e
Power Supply	24Vdc ± 10%
Absorption TX Unit Absorption RX Unit	80 mA max 70 mA max
Output	2 switches SW1 - SW2 (ON/OFF) free from potential 1Adc/ac @ 40Vdc/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	**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 (present only with the OPTION SRS /EDM)
Housing	Polished aluminium RAL1021
Housing Section	22 x 36 mm
Protection Degree	IP54 (option IP67 - IP69K)
Working Temperature	0 / +55 °C
RX Connection TX Connection	Connector M12 female 8 poles shielded - lenght 10 meters Connector M12 female 5 poles shielded - lenght 10 meters
Fixing	SMO (orientable support brackets)

CONNECTION ELECTRIC DIAGRAM (Standard Model)

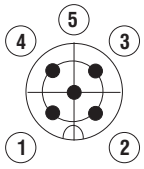
RX



male connector

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

TX



male connector

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

CONNECTION ELECTRIC DIAGRAM (model Type 2 with option SRS/EDM)

RX

Manual Operation

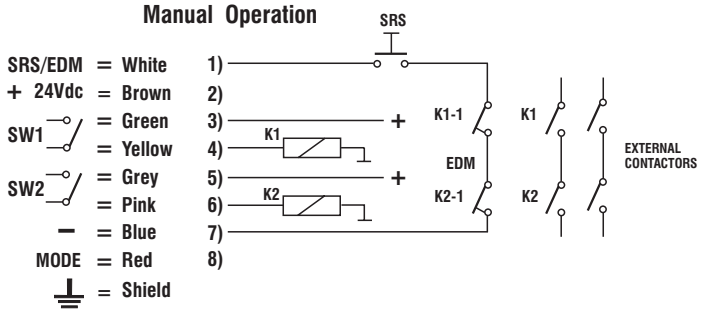


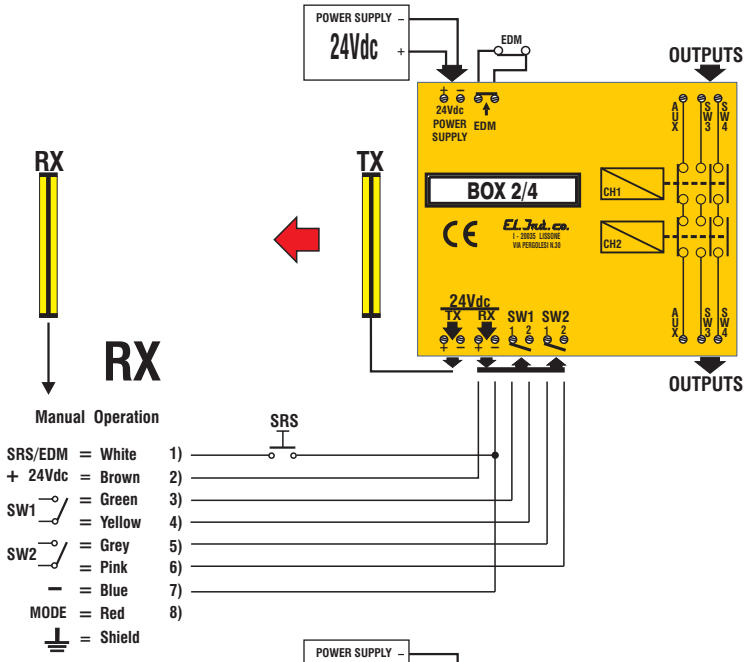
Table Operative Mode

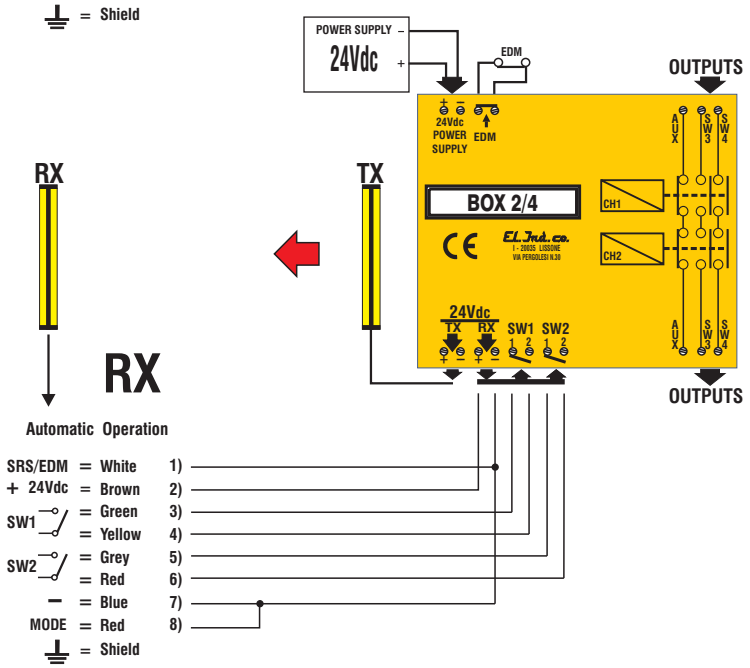
	RED	WHITE [1]	
	MODE	SRS	EDM
AUTOMATIC	0 Volt	✗	✓/✗
MANUAL	NC	✓	✓/✗

[1] Leave close if not used

To connect the TX refer to the diagram on page 2

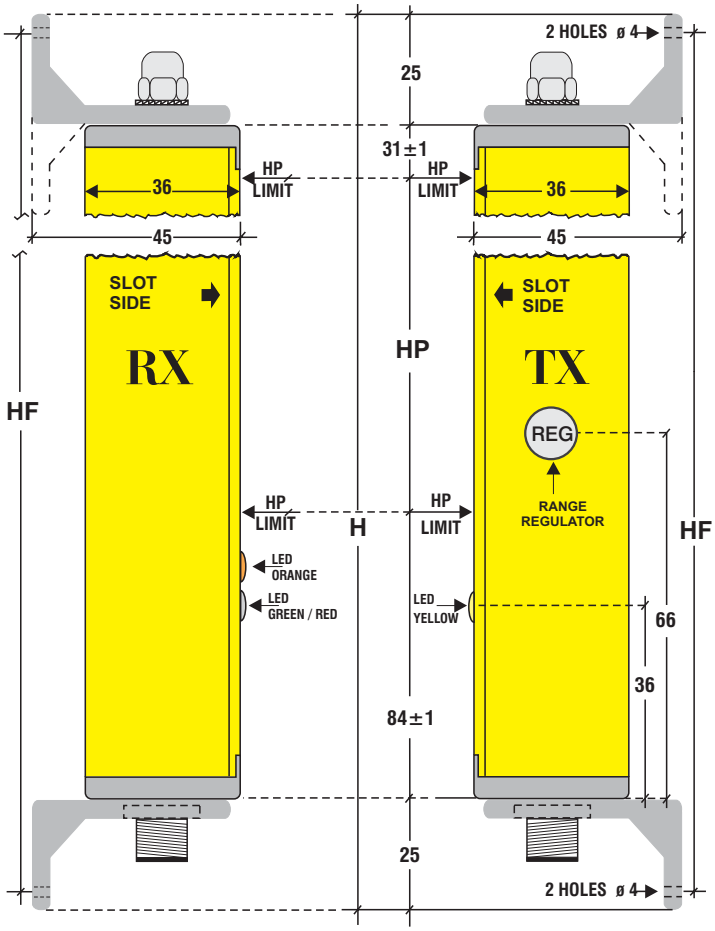
CONNECTION ELECTRIC DIAGRAM (model Type 4 with option SRS/EDM)

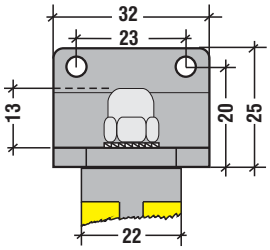




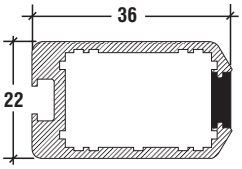
MECHANICAL DIMENSIONS (millimeters)

SIDE VIEW

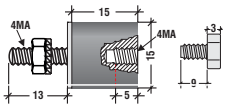




FRONT VIEW



HOUSING SECTION



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

OPTIONS (°°)

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

ACCESSORIES

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 **UNBREAKBLE** for enclosures

HOW TO ORDER

Product Code: **OPT3-SMC-P080-0800** - _ _ _ _ - _ _ - **SMO** - _ _ _ _

Distance — Mounting — **OPTIONS (°°)**

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

Maximum Range between TX and RX
NR = HP ... 6 meters
MR = 6 ... 16 meters
HR = 16 ... 30 meters

Example : **OPT3 SMC-P080-0800 - *1000* - *NR* - SMO - SRS/EDM**