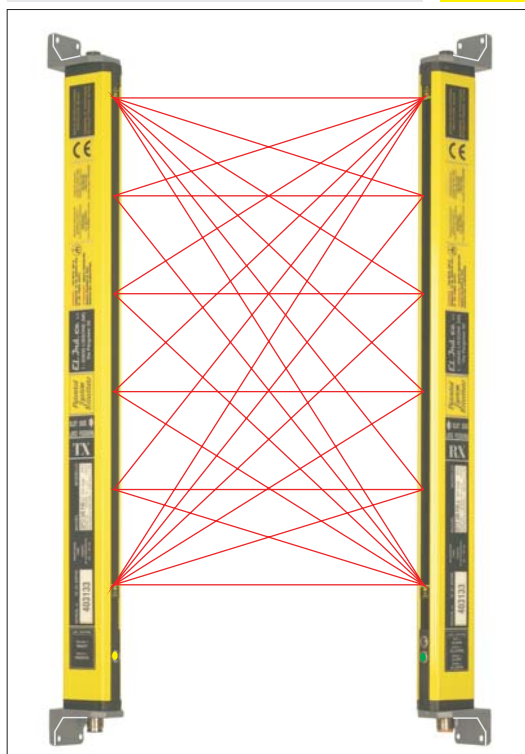


OPT3 SMC P040

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



Resolution 40mm - hand

Protected Height 240 ÷ 1920 mm

Range HP ÷ 30 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 Type2 (*) 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

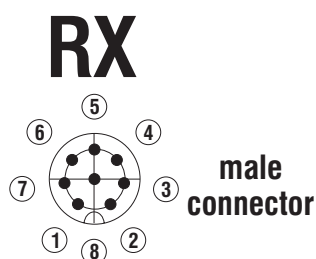
Product Code	Protected Height HP mm	Total Height H mm	Response time ms	Number of controlled rays
OPT3-SMC-P040-0240	240	405	20	4x4
OPT3-SMC-P040-0320	320	485	23	5x5
OPT3-SMC-P040-0400	400	565	25	6x6
OPT3-SMC-P040-0480	480	645	28	7x7
OPT3-SMC-P040-0560	560	725	30	8x8
OPT3-SMC-P040-0640	640	805	33	9x9
OPT3-SMC-P040-0720	720	885	35	10x10
OPT3-SMC-P040-0800	800	965	38	11x11
OPT3-SMC-P040-0880	880	1045	40	12x12
OPT3-SMC-P040-0960	960	1125	43	13x13
OPT3-SMC-P040-1040	1040	1205	45	14x14
OPT3-SMC-P040-1120	1120	1285	48	15x15
OPT3-SMC-P040-1200	1200	1365	50	16x16
OPT3-SMC-P040-1280	1280	1445	53	17x17
OPT3-SMC-P040-1360	1360	1525	55	18x18
OPT3-SMC-P040-1440	1440	1605	58	19x19
OPT3-SMC-P040-1520	1520	1685	60	20x20
OPT3-SMC-P040-1600	1600	1765	63	21x21
OPT3-SMC-P040-1680	1680	1845	65	22x22
OPT3-SMC-P040-1760	1760	1925	68	23x23
OPT3-SMC-P040-1840	1840	2005	70	24x24
OPT3-SMC-P040-1920	1920	2085	73	25x25



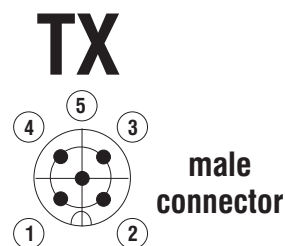
Via Pergolesi 30 - 20851 LISSONE (MB) - www.elindco.it

DECEMBER 2012

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 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 <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 = SW2
- 6) Pink = SW1
- 7) Blue = -
- 8) Red = N.C.
- Shield =

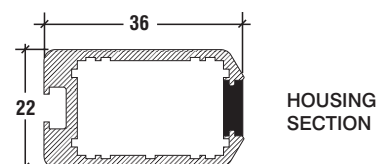
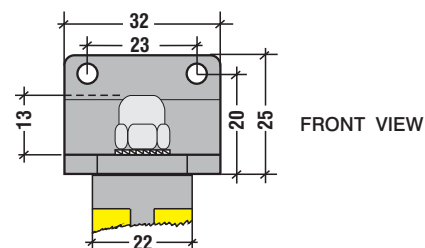
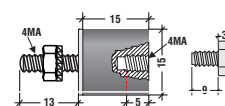


- 1) Brown = + 24Vdc
- 2) White = TEST INPUT
- 3) Blue = -
- 4) Black = TEST INPUT
- 5) Grey = N.C.
- Shield =

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

The drawing shows two modules, RX and TX, with the following dimensions and labels:

- Overall Dimensions:**
 - Width: 45
 - Height: 66
 - Module Height: 36
 - Mounting Hole Diameter: $\varnothing 4$
- Internal Features and Labels:**
 - RX Module:**
 - Label: **RX**
 - Slot Side: **SLOT SIDE** (indicated by an arrow pointing right)
 - LEDs: **LED ORANGE** and **LED GREEN / RED** (indicated by arrows pointing left)
 - TX Module:**
 - Label: **TX**
 - Slot Side: **SLOT SIDE** (indicated by an arrow pointing left)
 - Range Regulator: **REG** (indicated by an arrow pointing up)
 - LED: **LED YELLOW** (indicated by an arrow pointing right)
- Mounting and Spacing:**
 - Mounting holes are located 25 units from the top and bottom edges.
 - The distance between the centers of the mounting holes is 31 ± 1 .
 - The distance between the centers of the RX and TX modules is 84 ± 1 .
 - Horizontal positions are marked with **HP** and **HP LIMIT**.
 - A vertical dimension **H** is indicated between the top and bottom of the modules.
 - A horizontal dimension **HF** is indicated on the left side of the RX module.


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


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-P040-0560	- - - -	- SMO	- - - -	NR = HP ... 6 meters MR = 6 ... 16 meters HR = 16 ... 30 meters

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

EL Ind. co.

DECEMBER 2012

page 4/4