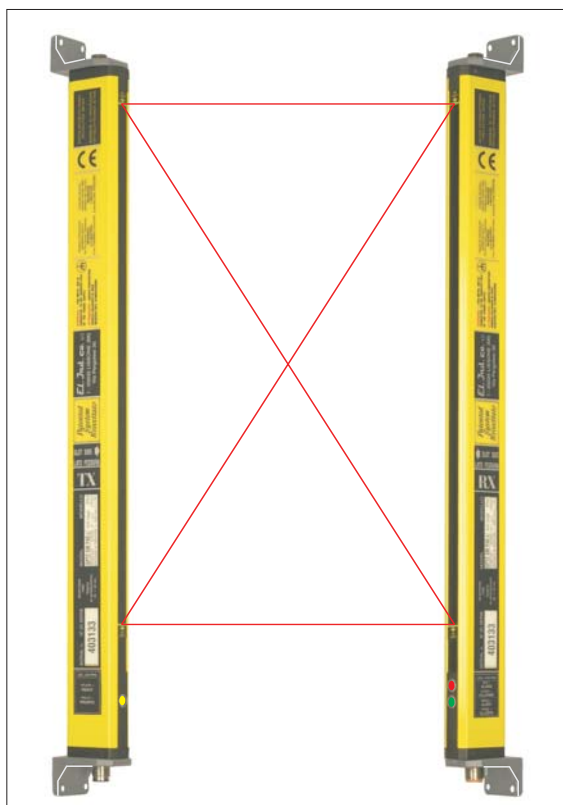


# OPT3 SMC P400

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



Resolution 400 mm - body

Protected Height 800 ÷ 1600 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)

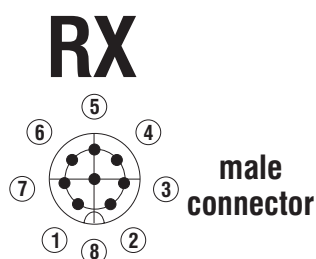
(\*) Upgrading to **TYPE 4** through a control unit BOX2/4 which implements the following functions :

- **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

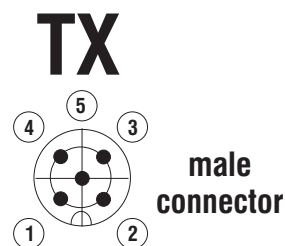
## PROTECTED AREAS HEIGHT

| Product Code       | Protected Height<br>HP mm | Total Height<br>H mm | Response time<br>ms | Number of<br>controlled rays |
|--------------------|---------------------------|----------------------|---------------------|------------------------------|
| OPT3-SMC-P400-0800 | 800                       | 965                  | 15                  | 2x2                          |
| OPT3-SMC-P400-1600 | 1600                      | 1765                 | 18                  | 3x3                          |

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Safety Category</b>     | TYPE 2 - SIL 2    SILCL 2 PL d / TIPO 4* - SIL 3*    SILCL 3 PL e                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Power Supply</b>        | 24Vdc $\pm$ 10%                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Absorption TX Unit</b>  | 80 mA max                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Absorption RX Unit</b>  | 70 mA max                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Output</b>              | 2 switches SW1 - SW2 (ON/OFF) free from potential<br>1Adc/ac @ 40Vdc/ac                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Output Protection</b>   | Short circuit and overcharge through self restoring fuses.<br>After an overcharge or shortcircuit it is necessary to power off<br>and wait some seconds before the normal working restart                                                                                                                                                                                                                                                  |
| <b>LED Signallings</b>     | <p><b>TX Unit</b></p> <ul style="list-style-type: none"> <li>- Yellow Led = Power Supply</li> </ul> <p><b>RX Unit</b></p> <ul style="list-style-type: none"> <li>- Green Led = Active Protection</li> <li>- Red Led = Alarm</li> <li>- Orange Led ON = Manual Operation</li> <li>- Orange Led blinking = Waiting for RESTART</li> <li>- Orange Led OFF = Automatic Operation</li> </ul> <p><i>present only with the OPTION SRS/EDM</i></p> |
| <b>Housing</b>             | Polished aluminium RAL1021                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Housing Section</b>     | 22 x 36 mm                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protection Degree</b>   | IP54 (option IP67 - IP69K)                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Working Temperature</b> | 0 / +55 °C                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RX Connection</b>       | Connector M12 female 8 poles shielded - lenght 10 meters                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>TX Connection</b>       | Connector M12 female 5 poles shielded - lenght 10 meters                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Fixing</b>              | 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 =



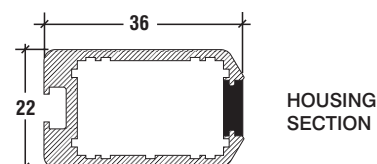
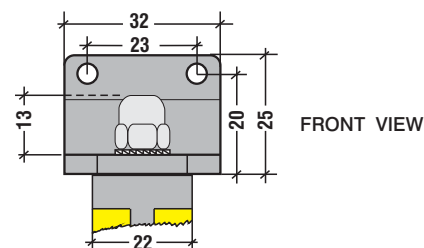
- 1) Brown = + 24Vdc
- 2) White = TEST INPUT
- 3) Blue = -
- 4) Black = TEST INPUT
- 5) Grey = N.C.
- Shield =

**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

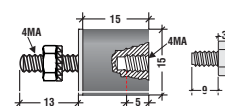


The drawing shows two modules, RX and TX, with the following dimensions and labels:

- Overall Width:** 45
- Module Width:** 36
- Top Mounting:** 2 HOLES  $\varnothing 4$
- HP LIMIT:** Indicated on both sides of the module width.
- Module Height:** 84  $\pm 1$
- Module Width (TX):** 36
- Module Height (TX):** 66
- TX Labels:** SLOT SIDE, TX, REG, RANGE REGULATOR, LED ORANGE, LED GREEN / RED, LED YELLOW.
- RX Labels:** RX, SLOT SIDE.
- Dimensions:** 25, 31  $\pm 1$ , 45, 66, 84  $\pm 1$ , 96, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 144, 148, 152, 156, 160, 164, 168, 172, 176, 180, 184, 188, 192, 196, 200.



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



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

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

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

| Product Code       | Distance | Mounting | OPTIONS (°°) | Maximum Range between TX and RX                                       |
|--------------------|----------|----------|--------------|-----------------------------------------------------------------------|
| OPT3-SMC-P400-0800 | - - - -  | - SMO    | - - - -      | NR = HP ... 6 meters<br>MR = 6 ... 16 meters<br>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