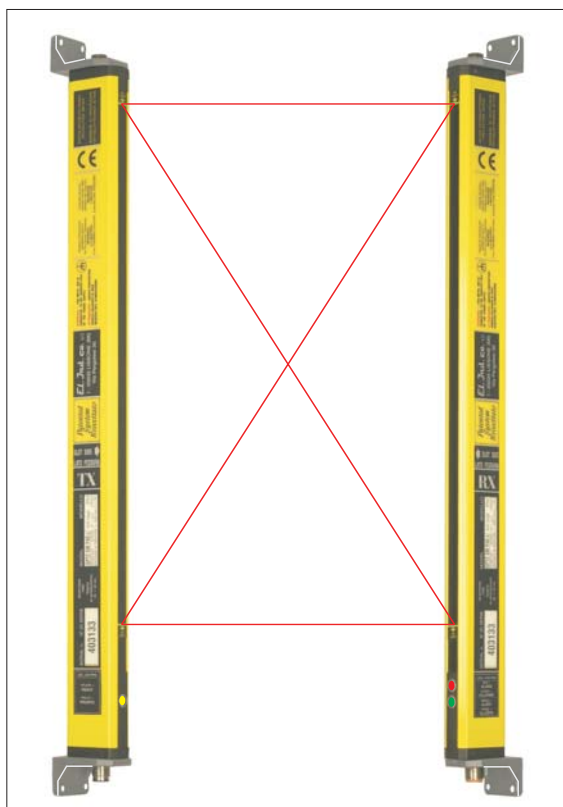


OPT3 SMC P280

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



Resolution 280 mm - access

Protected Height 560 ÷ 1680 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)

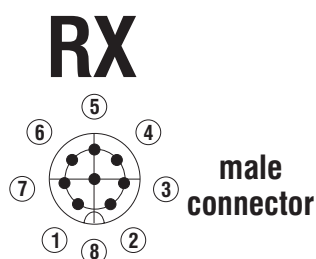
(*) Upgrading to **TYPE 4** through a control unit BOX2/4 which implements the following functions :

- **Outputs** - 2 switches 5A/250V (mobile concatenated relays)
- **EDM** (External Device Monitoring)
- **Led Diagnostic** for failures signalling and detection
- **Contact AUX (Auxiliary) NC** normally closed

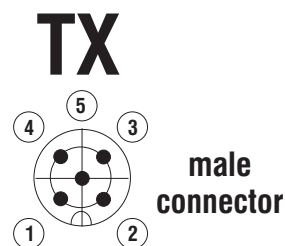
PROTECTED AREAS HEIGHT

Product Code	Protected Height HP mm	Total Height H mm	Response time ms	Number of controlled rays
OPT3-SMC-P280-0560	560	725	15	2x2
OPT3-SMC-P280-1120	1120	1285	18	3x3
OPT3-SMC-P280-1680	1680	1845	20	4x4

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	<p>TX Unit</p> <ul style="list-style-type: none"> - Yellow Led = Power Supply <p>RX Unit</p> <ul style="list-style-type: none"> - Green Led = Active Protection - Red Led = Alarm - Orange Led ON = Manual Operation - Orange Led blinking = Waiting for RESTART - Orange Led OFF = Automatic Operation <p><i>present only with the OPTION SRS/EDM</i></p>
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 =

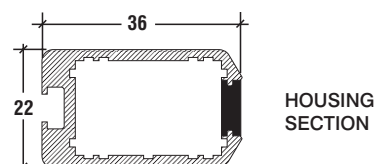
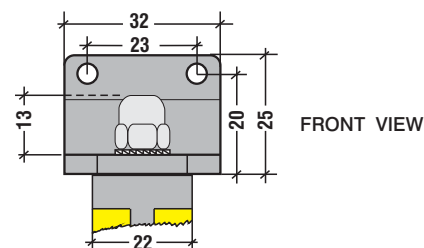


- 1) Brown = + 24Vdc
- 2) White = TEST INPUT
- 3) Blue = -
- 4) Black = TEST INPUT
- 5) Grey = N.C.
- Shield =

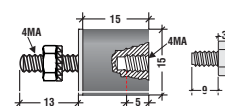
TEST INPUT = Connect the 2 threads, white and black is simulated the interruption of the curtain test the correct opening of the outputs SW1 - SW2 of the receiving unit

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: 2 HOLES $\varnothing 4$
- Module RX (Left):**
 - Label: **RX**
 - Slot Side: **SLOT SIDE** (indicated by an arrow pointing right)
 - HP Limit: **HP LIMIT** (indicated by an arrow pointing left)
 - LED Indicators: **LED ORANGE** and **LED GREEN / RED** (indicated by arrows pointing left)
- Module TX (Right):**
 - Label: **TX**
 - Slot Side: **SLOT SIDE** (indicated by an arrow pointing left)
 - HP Limit: **HP LIMIT** (indicated by an arrow pointing right)
 - Range Regulator: **REG** (indicated by an arrow pointing up)
 - LED Indicator: **LED YELLOW** (indicated by an arrow pointing right)
- Other Dimensions:**
 - Distance between module centers: 31 ± 1
 - Distance from top edge to module top: 25
 - Distance from bottom edge to module bottom: 25
 - Distance from module top to HP Limit: 84 ± 1
 - Distance from module bottom to HP Limit: 84 ± 1



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



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 lenght 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-P280-0560	- - - -	- 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

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