FMC-SG / FMC-SGR
COLUMN FOR SAFEGATE LIGHT CURTAINS

GENERAL

The present mounting instruction contains information about:

- The correct mounting of the light curtains **SAFEGATE** inside the **FMC-SG/FMC-SGR** columns.
- The correct assembly of the plate and cover for **FMC-SG/FMC-SGR** columns.
- The assembly of the **FMC-SG/FMC-SGR** columns on the **FMC-CB/FMC-CBL** stand bottom.
- The correct alignment of emitters and receives (with our without mirror).
- Please Note: find detailed information about the function of the light curtains / light grids in the relevant mounting and wiring instructions.

MOUNTING BASE PLATE

- Fasten the base plate as shown in Figure 11, using the provided screws, T.B.E.I. M6x16.

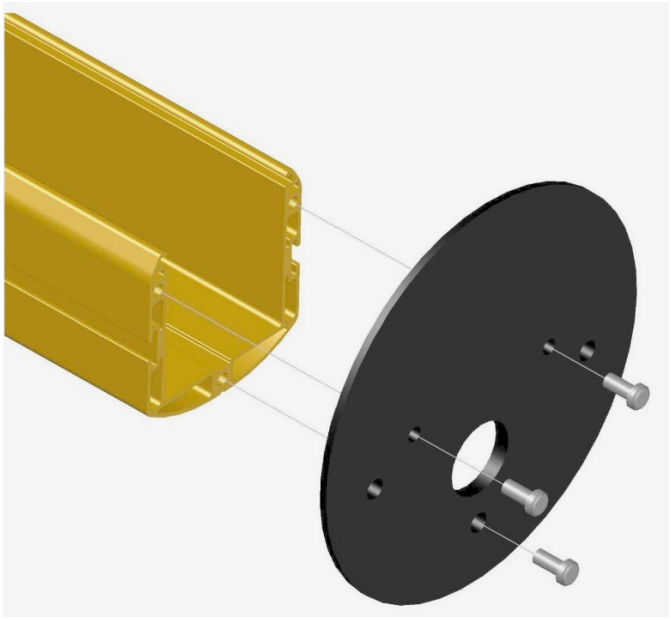


Figure 11

MOUNTING WITH FMC-CB/FMC-CBL STAND BOTTOM

- Mount the **FMC-CB/FMC-CBL** stand bottom on the floor.

Please note: For a correct alignment, please verify that the stand bottom upper surface is even and horizontal (using a circular spirit level). To operate the regulation, act on the three hexagonal nuts (B) until the perfect levelness is reached. (MAXIMUM ADJUSTMENT: 10mm). If the ground roughness is over 10mm, flush it adequately.

- Loosen the three allen screws and remove the washers.

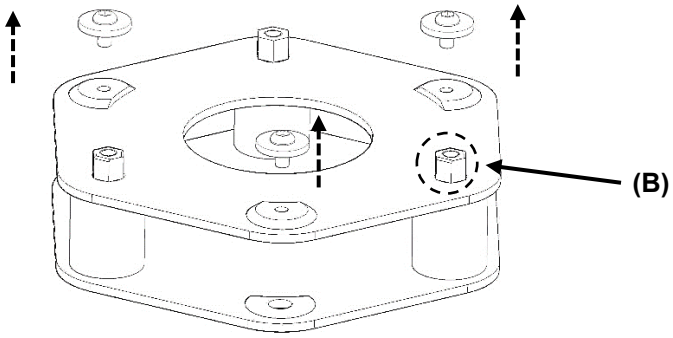


Figure 12

- Place the column base plate on the **FMC-CB/FMC-CBL** stand bottom (Figure 13).
- Fix the column tightening the three allen screws and the washers.

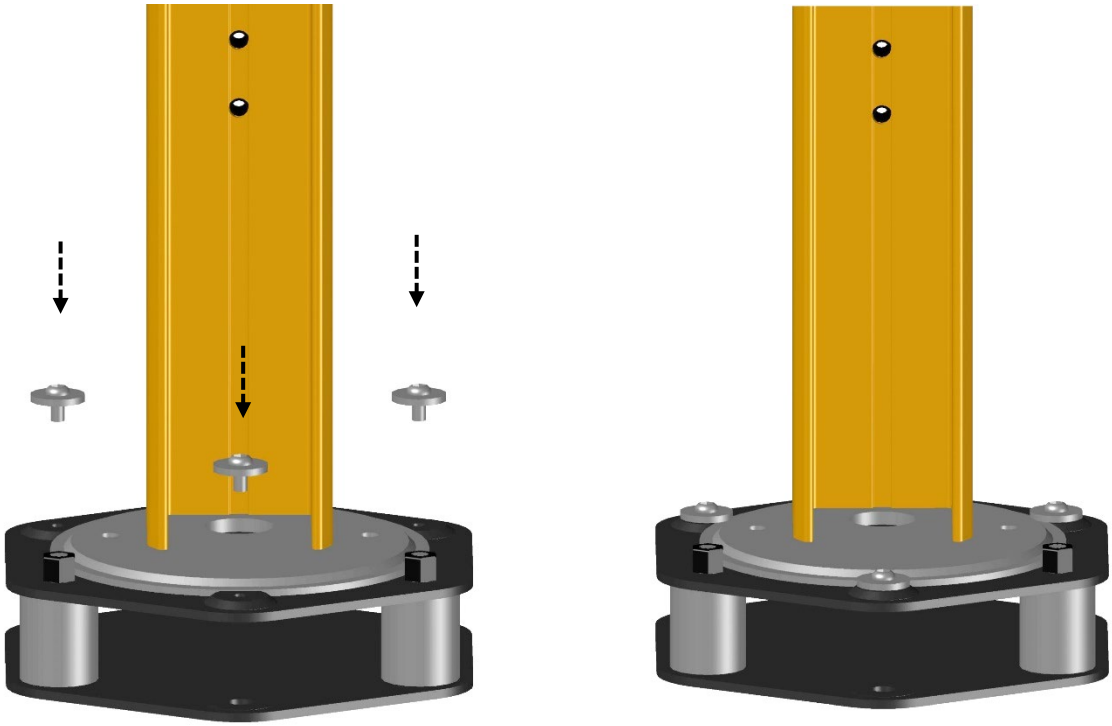


Figure 13

MOUNTING OF SAFEGATE LIGHT CURTAINS

- Remove the cover (with the spirit level) from the top of the column.
- Place the inserts with 2 the pins M6x16 **(A)** in the holes in the column (Figure 14).
- Temporarily screw the M6x15 **(B)** screws on the pins (one screw rotation).
- Insert the barrier from the top into the column, making sure that all the inserts slide in the slot on the back of the barrier (Figure 15).
- When the correct position is achieved, (dimension H, table 1) lock the allen screws to fix the barrier (Figure 15).
- Fix the cover on the top of the column (see next paragraph).

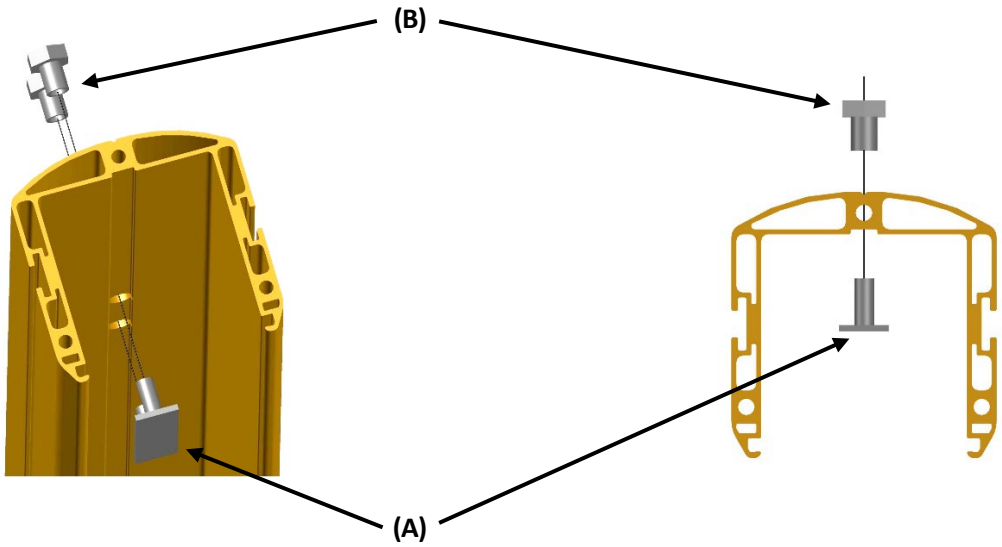


Figure 14

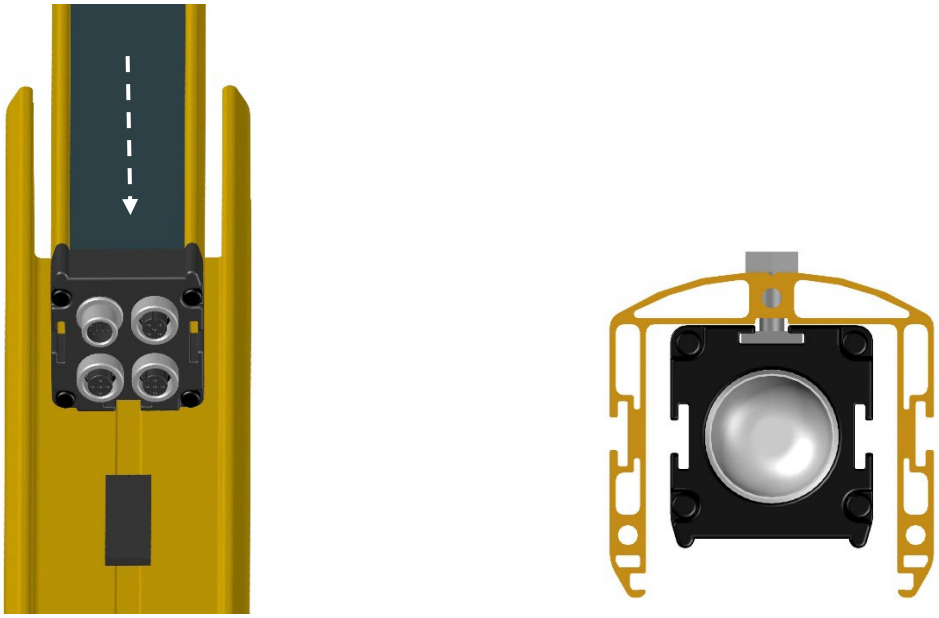


Figure 15

- The exact position of the barrier is showed in the table below (distance between the first light beam and the ground) (according to EN13855:2010).

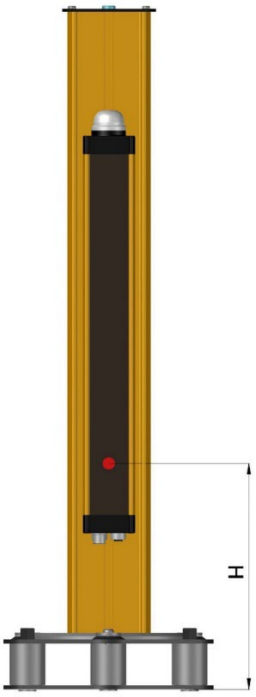


Figure 16

MODEL	H = Distance between the first light beam and the ground [mm]
FMC-SGB2 **FMC-SGB2R**	≤ 400 mm
FMC-SGB3 **FMC-SGB3R** **FMC-SGB4** **FMC-SGB4R** **FMC-SG1700** **FMC-SG1700R** **FMC-SG2000** **FMC-SG2000R**	≤ 300 mm

Table 1

MOUNTING OF COVER WITH SPIRIT LEVEL

- Secure the cover with spirit level as shown in Figure 17, using the supplied screws.



Figure 17

ALIGNMENT OF EMITTER AND RECEIVER

After the barriers are assembled to the columns and secured to the ground, the last operation is the alignment of emitter and receiver. Perform the following steps:

- Make sure that the columns of emitter and receiver are in vertical position (placing a spirit level (**A**) on the top end of each stand). Perform leveling fine adjustments by means of the hexagonal nuts of the stand bottom (**B**).
- Connect the light curtain (ref. Technical manual).
- For an exact alignment of emitter and receiver, loosen the three allen screws (**C**) that fix the rotation flange and rotate the two columns until the barrier signal LEDS light on (ref. Technical manual).

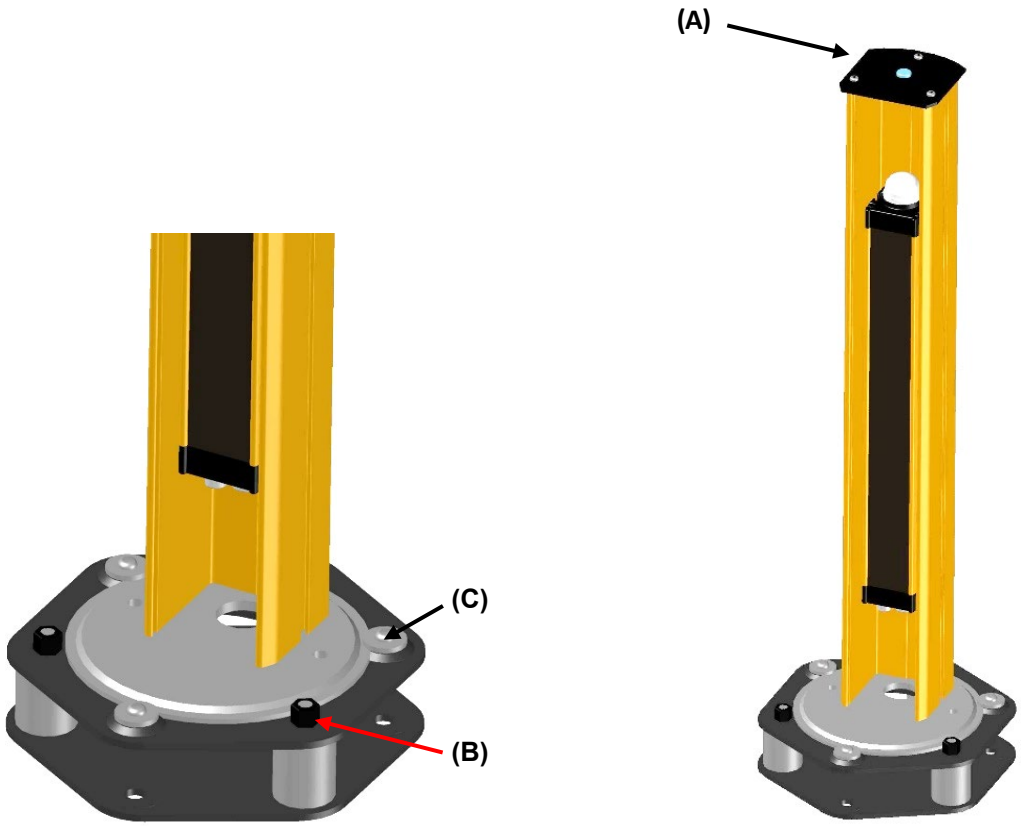


Figure 18

FITTING FOR CABLE (COLUMN FMC-SGR)

- Insert the cable (terminating with the female connector) in the PG11 plastic fitting, housed in the column.

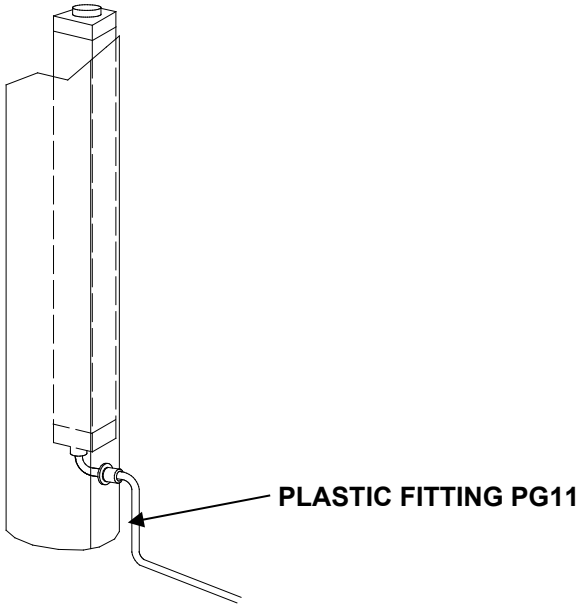


Figure 19

DIMENSIONS

MODEL FMC…	*SG2*	*SG3*	*SG4*
	SG2R	*SG3R*	*SG4R*
Dimension 'A' (mm)	1000	1200	1330
Dimension 'B' (mm)	1055	1255	1385
MODEL FMC…	*SG550*	*SG1700*	*SG2000*
	SG550R	*SG1700R*	*SG2000R*
Dimension 'A' (mm)	550	1700	1970
Dimension 'B' (mm)	605	1755	2025

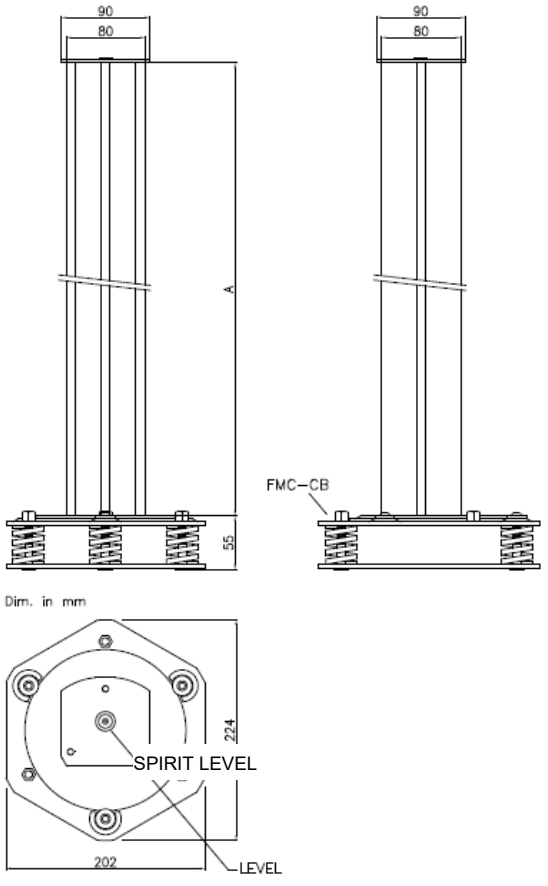


Figure 20