MC

Mirror columns for Safety Light Curtains and Multiple Light Beam Safety Devices

The MC mirror columns are used for beam deflection of Safety Light Curtains or Multiple Light Beam Safety Devices in order to achieve multisided safeguarding of dangerzones. An exact vertical and axial alignment of the mirrors is possible.

Accessories

Optional available is the mounting set MS-DC/MC (Part No. 430092) for floor fixing.

There included are plastics spring elements for retraction in case of mechanical shocks.

Also included in the accessory set are the necessary floor braces and the nuts M10 DIN 6331.

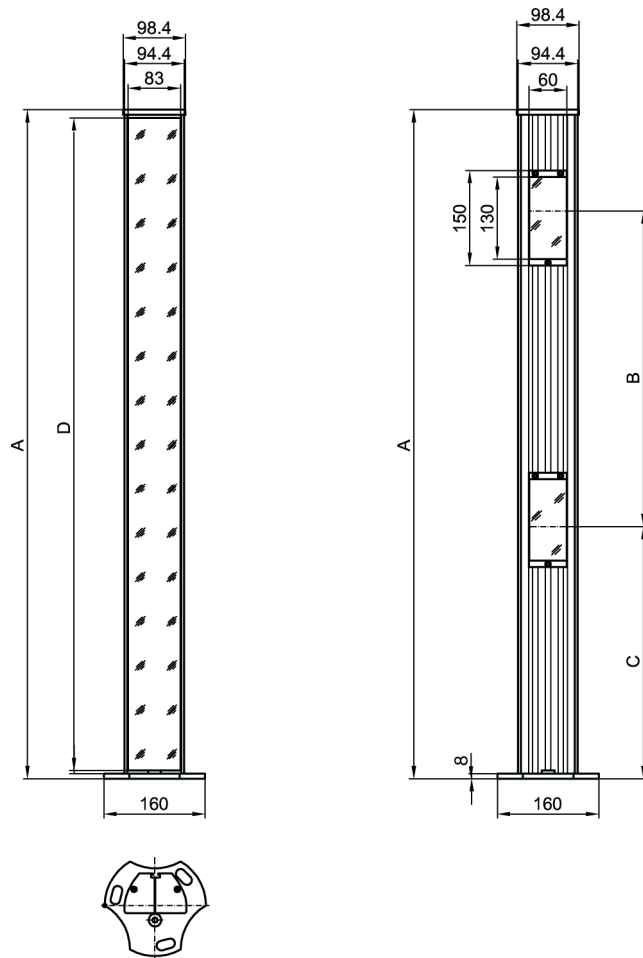601906 – 2010/11 - Subject to change without prior notice

MC

Special features

● Robust profile construction in an attractive design

● Easy to mount, adjustment can be quickly completed in just a few steps

● Continuous mirror or exchangeable and separately adjustable individual mirrors with beam gap according to EN 999

Areas of application

Multi-sided safeguarding of danger zones in combination with Multiple Light Beam Safety Devices COMPACT, COMPACT*plus*, ROBUST or Safety Light Curtains COMPACT, COMPACT*plus*, ECO oder SOLID.

Dimensional drawing

Dimensional table MC with continuous mirror

Type	Meas. A [mm]	Meas. D [mm]
MC-1000	1000	974
MC-1300	1300	1274
MC-1600	1600	1574
MC-1900	1900	1874

Other heights on request

Dimensional table MC with single mirrors

Type	Meas. A [mm]	Meas. B [mm]	Meas. C [mm]
MC-902*	900	1 x 500	300
MC-1002	1000	1 x 500	400
MC-1303	1300	2 x 400	300
MC-1304	1300	3 x 300	300

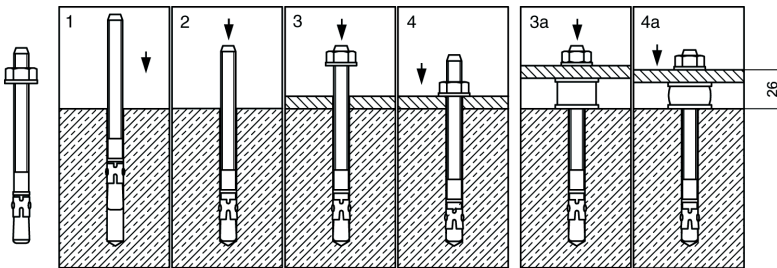* incl. mounting set MS-DC/MC
  (Part No. 430092)

Mounting Instructions
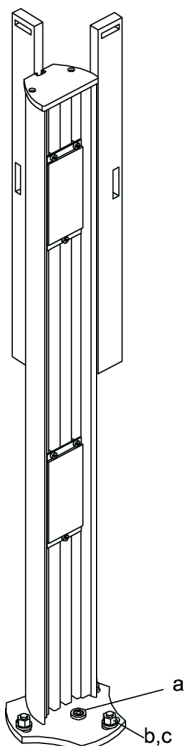
Required parts and tools:

- 6 mm allen-type wrench
- 10 mm socket wrench with max. 16 mm outside diameter
- 16 mm hexagonal wrench
- Spirit level
- Electric drill with a 10 mm stone drill bit
- 3 floor braces, Würth M10-45/115
- 3 nuts, M10 x 1,5 DIN 6331

Procedure:

1. Determine the mid-points for mounting the columns and mark them on the floor.
2. Beginning at the mid-points, mark the connecting lines on the floor for a length of approx. 90 mm. The angle of the mirror to the coming beam should be the same as to the going beam.
3. Place the drill template on each mid-point, orienting it according to the connecting lines. Mark the hole positions.
4. Drill mounting holes 80 mm deep and insert floor braces.

5. Set up the columns, tighten sligtly (fig. 3 or 3a) and adjust roughly using the level (a).
6. Use the nuts (b) to adjust the vertical position of the mirror column, checking the adjustment with the spirit level. Turn it so that the going beam of the laser alignment aid hits the next mirror column or device column in the middle. With devices with separate individual mirrors use additionally the 3 adjustment screws at the mirrors. Tighten the nuts.

a = level
b = nuts M10 x 1,5 DIN 6331
c = 3 drillings in the floor for floor braces, Ø 10 mm

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Technical data

Mirror	2, 3 or 4 individually adjustable single mirrors or one continuous mirror surface
Housing	Aluminum profile housing and steel floor plates
Surface	Powder-varnished, yellow (RAL 1021)
Range	Reduction in the stated device range per deflection of approx. 10 %

Ordering information

Type	Part No.
MC-902 (2 single mirrors, 500 mm interval) *)	549305
MC-1002 (2 single mirrors, 500 mm interval) *)	549302
MC-1303 (3 single mirrors, 400 mm interval) *)	549303
MC-1304 (4 single mirrors, 300 mm interval) *)	540304
MC-1000 (1 single mirrors, height 974 mm) **)	549310
MC-1300 (1 single mirrors, height 1274 mm) **)	549313
MC-1600 (1 single mirrors, height 1574 mm) **)	549316
MC-1900 (1 single mirrors, height 1874 mm) **)	549319
LA-78U	560020
LA-78UDC, laser alignment aid for COMPACT, COMPACT*plus* and ROBUST in the UDC- or DC-column	520004

*) Suited for Multiple Light Beam Safety Devices with single beams like COMPACT, COMPACT*plus* or ROBUST.

**) Suited for Safety Light Curtains with a continuous sensing zone, such as COMPACT, COMPACT*plus*, ECO or SOLID.