DC-S1

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

The DC-S1 mounting columns are used in order to mount Leuze electronic Multiple Light Beam Safety Devices and Safety Light Curtains. They permit an exact vertical and axial alignment, and protect the sen-sors from accidental damage.

The DC-1000-S1 can handle 2-beam COMPACT, COMPACT*plus* or ROBUST Multiple Light Beam Safety Devices or Safety Light Curtains up to 900 mm protected heights.

The DC-1300-S1 is designed for 3-beam or 4-beam Multiple Light Beam Safety Devices or Safety Light Curtains up to 1200 mm protected heights.

ISO 9001

Accessories

The MS-DC/MC installation kit is optionally available for floor fastening.

Including spring elements made of synthetic material, it allows vertical and axial alignment.

Included in the accessory set are the floor braces, the nuts M10 DIN 6331 and the screws M6x8 for fixing the device in the column.

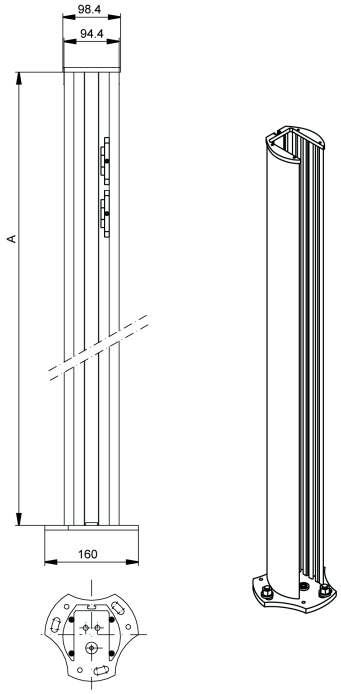
Special features

- Robust profile construction in an attractive design
- Easy to mount, adjustment can be quickly completed in just a few steps
- Bracket alignment via 3 drill holes in the base with M8 thread, in which the M8 screws that must be ordered from the customer side can be screwed for the vertical alignment
- The devices are height-aligned using the BT-P40 clamping bracket included

Areas of application

Free-standing floor mounting with Multiple Light Beam Safety Devices COMPACT, COMPACT*plus*, ROBUST or Safety Light Curtains COMPACT, COMPACT*plus*, SOLID or ECO with mounting profile.

Dimensional drawing



Dimensional table

Type	Meas. A [mm]
DC-1000-S1	1000
DC-1300-S1	1200
DC-1600-S1	1300
DC-1900-S1	1900

Ordering information

Type	Art. no.
DC-1000-S1*)	549610
DC-1300-S1*)	549613
DC-1600-S1*)	549616
DC-1900-S1*)	549619

*) For the assembly of ECO, the ECO protection and assembly profile is required.

Accessories

Type	Art. no.
Protection and assembly profile for	
ECO-150	426701
ECO-225	426702
ECO-300	426703
ECO-450	426704
ECO-600	426706
ECO-750	426707
ECO-900	426709
ECO-1050	426710
ECO-1200	426712
LA-78UDC, laser alignment aid for COMPACT, COMPACT*plus* and ROBUST in the UDC- or DC-column	520004

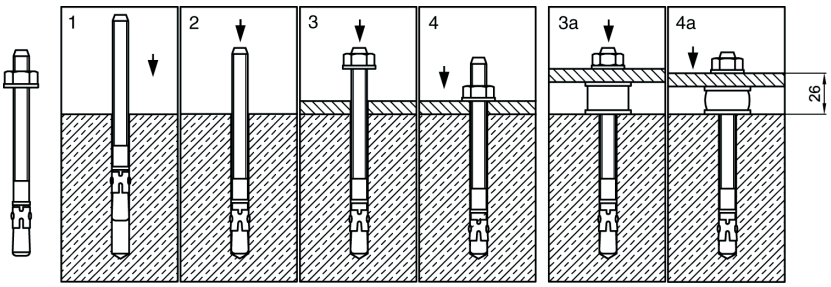
Mounting Instructions

Required parts and tools:

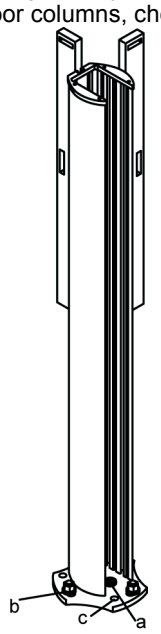
- In accessory set (Art. no. 430092); not included in delivery:
  - 3 floor braces, Würth M10-45/115
  - 3 nuts, M10 x 1,5 D
  - 2 screws, M6 x 8
- 6 mm Allen-type wrench
- 10 mm socket wrench with max. 16 mm outside diameter
- 16 mm hexagonal wrench
- Spirit level
- Electric drill with a 10 mm stone drill bit
- Laser alignment aid (recommended for multi-sided safeguarding and long-distance ranges): LA-78UDC (Art. no. 520004) for COMPACT, COMPACT*plus* and ROBUST

Procedure:

1. Pre-mounting of the devices in the DC-S1 device column via BT-P40 accessories.
2. Determine the mid-points for mounting the columns by using the base plate and mark them on the floor.
3. Beginning at the mid-points, mark the connecting lines on the floor for a length of approx. 90 mm.
4. Place the drill template on each mid-point, orienting it according to the connecting lines. Mark the hole positions.
5. Drill mounting holes 80 mm deep and insert floor braces (3a/4a = set floor braces with accessory set)



6. Set up the columns, (fig. 3 and 3a: tighten slightly), adjust roughly using the level (a) and make the electrical connection.
7. Using the adjustment screws (b and d), adjust the vertical position of the floor columns, checking the adjustment with the spirit level.



a = Level
b = 3 drillings in the floor for floor braces, Ø 10 mm, fixing with collar nut
c = Drilling with M8 thread for adjustment screws M8

8. Mount the laser alignment aid on top or at the bottom side of the device in the column and switch it on. Loosen the allen-type screws (c). Rotate the column until the laser light spot hits the center of the adjacent column or deflection mirror. If necessary loosen the BT-P40 allen screws for fixing the device in the column and align the device at height level and tighten the screws again (c).
9. Switch on the devices and ensure that they are adjusted appropriately. Optimal adjustment has been achieved when the weak signal indicator on the devices does not light up.