

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 sensors from accidental damage.

DC-S1 are suitable for mounting Multiple Light Beam Safety Devices or Safety Light Curtains MLD 300, MLD 500, COMPACT, COMPACT*plus* or SOLID-2 up to a protective height of 1800 mm.

DC-1000-S1 is suitable for 2-beam Multiple Light Beam Safety Devices and Safety Light Curtains up to a protective height of 900 mm, while the DC-1300-S1 is suitable for 3- and 4-beam Multiple Light Beam Safety Devices and Safety Light Curtains up to a protective height of 1200 mm.

The DC-S1 is characterized by the simple vertical height adjustment of the installed device by means of the supplied clamp brackets BT-P40 via screws accessible from the front.

ISO
9001

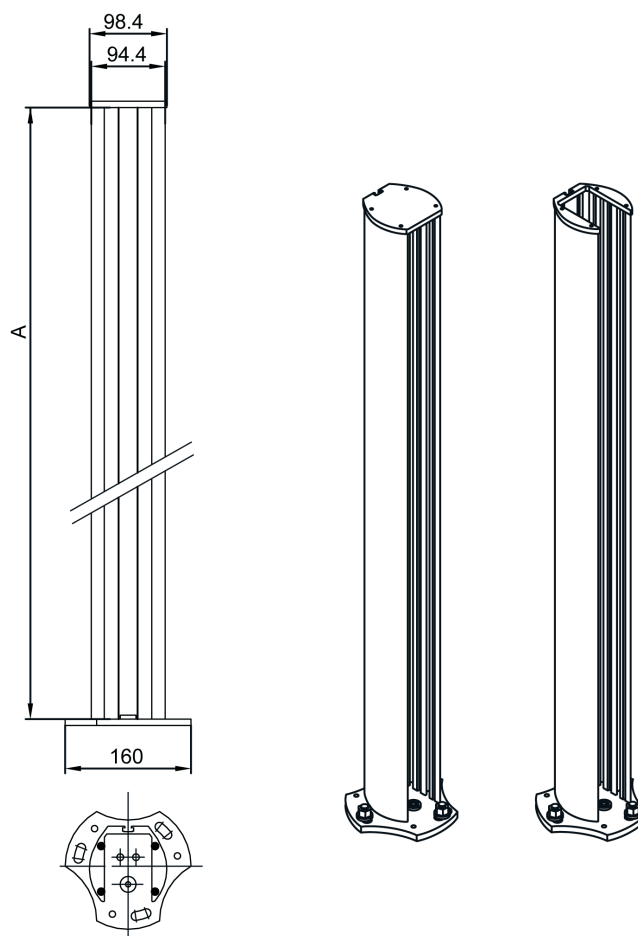
Special features

- 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 for Multiple Light Beam Safety Devices and Safety Light Curtains.

Dimensional drawing



Dimensional table

Type	Meas. A [mm]
DC-900-S1	900
DC-1000-S1	1000
DC-1300-S1	1200
DC-1600-S1	1300
DC-1900-S1	1900

Ordering information

Type	Art. no.
DC-900-S1	549609
DC-1000-S1	549610
DC-1300-S1	549613
DC-1600-S1	549616
DC-1900-S1	549619

Accessories

Article	Art. No.
Plastic protective screens	
PSC-1000	426181
PSC-1300	426182
PSC-1600	426183
PSC-1900	426184
LA-78UDC, Laser Alignment Aid for devices in the UDC or DC device column	520004
BT-P40 clamp bracket (2 pieces included in delivery)	424416
MS-DC/MC, mounting set for floor mounting with spring elements for resetting, floor anchors, nuts and screws	430092

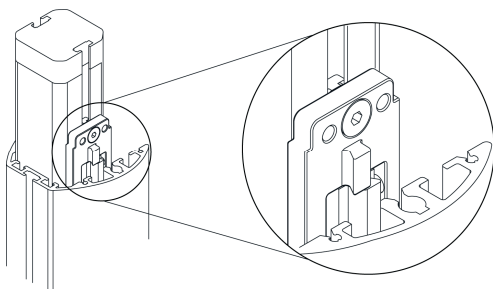
Mounting Instructions

Required parts and tools:

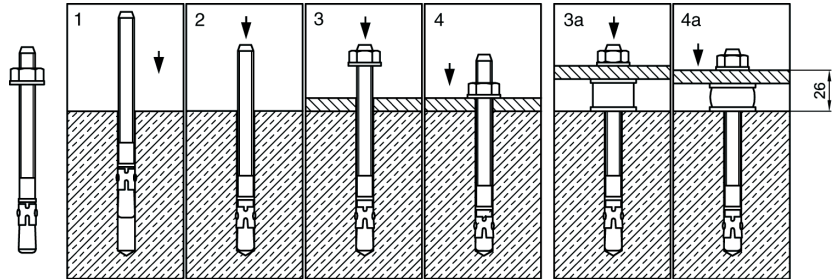
- In accessory set (Art. no. 430092); not included in delivery:
 - 3 spring elements
 - 3 floor braces, Würth M10-45/115
 - 3 nuts, M10 x 1,5 D
 - 2 screws, M6 x 8
- 6 mm Allen-type wrench
- 10 mm socket wrench with max. 16 mm outside diameter
- 16 mm hexagonal wrench
- Spirit level
- Electric drill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

Procedure:

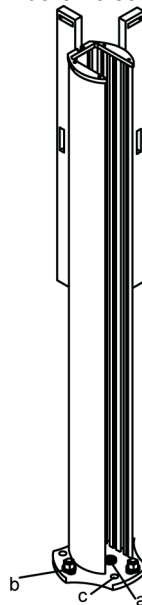
1. Fasten the supplied clamp brackets to the device by means of sliding blocks. Make certain that the clamp brackets are fastened far enough away from the first and last beam of the device to allow sufficient space for an external Laser Alignment Aid and that the Allen screw of the clamp bracket points towards the light beam gate of the sensor.
2. Remove the top cover on the device column, guide the device with the clamp brackets into the rear slot of the device column, and secure with the Allen screws, which are accessible from the front.



3. Determine the mid-point for mounting the column by using the base plate and mark them on the floor.
4. Beginning at the mid-point, mark the connecting lines on the floor for a length of approx. 90 mm.
5. Place the drill template on the mid-point, orienting it according to the connecting lines. Mark the hole positions.
6. Drill mounting holes and insert floor anchors (not included in delivery contents) (3, 4) (3a/4a = floor braces included in accessory set)



7. Set up the columns with elongated holes above the floor anchors, (fig. 3 and 3a: tighten slightly), adjust roughly using the level (a) and make the electrical connection.
8. Vertically align the floor columns using the floor anchors in the elongated holes (b) and the optional alignment screws in the M8 bore holes (c) with the aid of the spirit level.



- a = Spirit level
- b = 3 elongated holes for floor anchors, \varnothing 10 mm, secured by means of collar nut
- c = 3 bore holes with M8 thread for alignment screws

9. Loosen the Allen screws on the clamp bracket enough to allow the device to be easily moved in the column. Adjust the height of the device and then resecure the Allen screws.
10. Mount the laser alignment aid on top or at the bottom side of the device in the column and switch it on. Rotate the column until the laser light spot hits the center of the adjacent column or deflection mirror. Tighten the collar nuts of the floor anchors.
11. 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.
12. If applicable, guide the optional PSC-1x00 protective screen (not included in the delivery contents) into the front slot from above, and secure the included open or closed cover on the top as required.