UDC-X2

Device Mounting Columns for Safety Light Curtains and Multiple Light Beam Safety Devices in explosion-proof environments

The UDC-X2 Device Mounting Columns are used for the freestanding mounting of Multiple Light Beam Safety Devices and Safety Light Curtains in explosion-proof environments, zones 2 and 22. They enable precise vertical and axial alignment and protect the sensors against damaging.

UDC-X2 are suitable for mounting Multiple Light Beam Safety Devices or Safety Light Curtains COMPACT-EX2.

UDC-1000-X2 is suitable for 2-beam Multiple Light Beam Safety Devices and Safety Light Curtains up to a protective height of 900 mm, while the UDC-1300-X2 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 UDC-X2 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

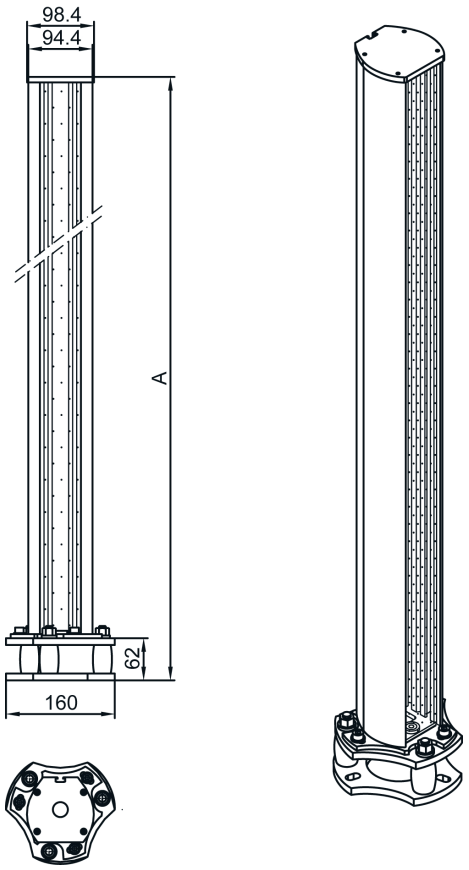
Features

- Robust profile construction in high quality design
- Automatic resetting after impacts with special spring elements
- Complete mounting set for floor fixing included in delivery
- Easy mounting, vertical and axial alignment in just a few steps
- The devices are height-aligned using the BT-P40 clamping bracket included

Areas of application

Free-standing floor fixing for Multiple Light Beam Safety Devices and Safety Light Curtains suitable for use in explosion-proof environments, zones 2 and 22.

Dimensioned drawing



Dimensions table

Article	Dim. A [mm]
UDC-1000-X2	1060
UDC-1300-X2	1360
UDC-1600-X2	1660
UDC-1900-X2	1960

Ordering information

UDC device column

Article	Art. No.
UDC-1000-X2	549837
UDC-1300-X2	549838
UDC-1600-X2	549839
UDC-1900-X2	549840

Accessories

Article	Art. No.
Protective screens made of impact-resistant plastic	
PSC-1000-EX	426191
PSC-1300-EX	426192
PSC-1600-EX	426193
PSC-1900-EX	426194
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

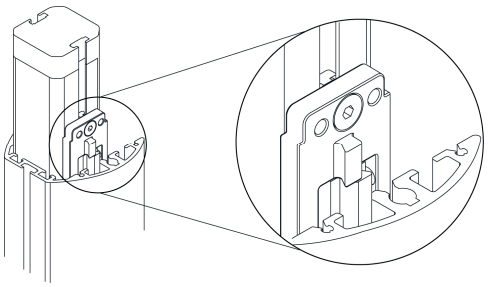
Mounting instructions

Required parts and tools:

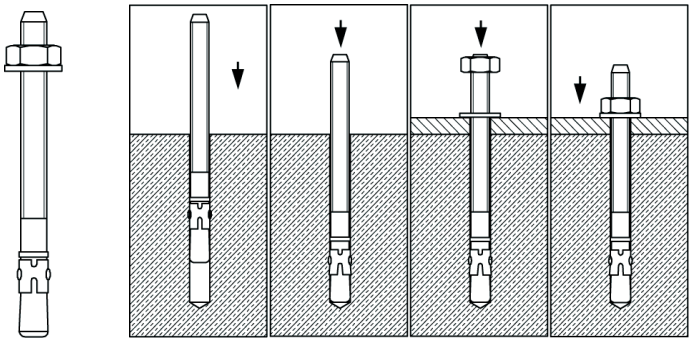
- UDC accessory set (included in delivery)
- 3 mm, 4 mm and 6 mm Allen key
- 16 mm socket wrench
- 17 mm socket wrench
- Spirit level
- Drill with 10 mm concrete bit
- Laser Alignment Aid LA-78UDC (recommended for multi-sided safeguards and large operating ranges)

Work steps:

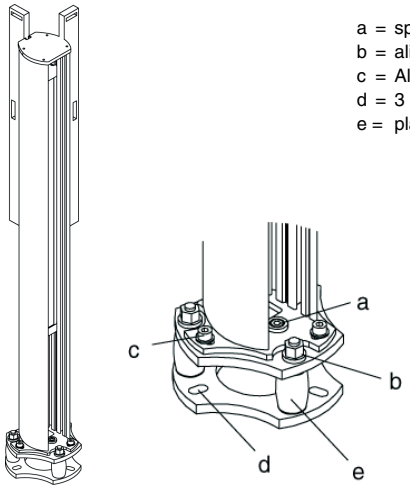
1. Fasten the supplied clamp brackets to the device by means of sliding blocks. Make certain that the clamp brackets are fastened far enough away from the first and last beam of the device to allow sufficient space for an external Laser Alignment Aid and that the Allen screw of the clamp bracket points 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. Use the base plate to determine the mounting midpoint of the column and make a mark on the floor.
4. Starting from the midpoint, draw approximately 90 mm long connecting lines on the floor.
5. Place the drilling template on the midpoint and align with the connecting lines. Mark the drill holes.
6. Drill fastening holes 80 mm deep and insert floor anchors.

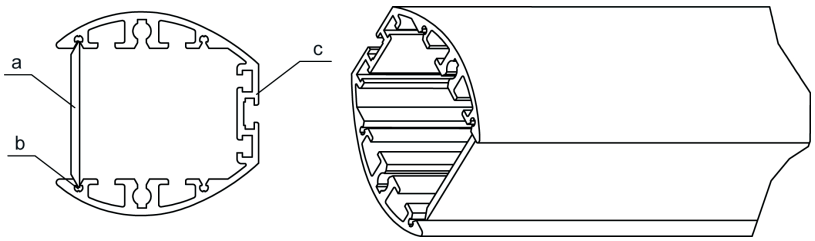


7. Position the columns, screw down, and, with the aid of the spirit level (a), roughly align the columns and establish the electrical connection of the device in the column.
8. Align the device columns to the alignment screws (b) using the spirit level vertically.



a = spirit level
b = alignment screws
c = Allen screws
d = 3 bore holes for floor anchors, Ø 10 mm
e = plastic spring element with automatic resetting

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. Position the Laser Alignment Aid on the top or at the bottom of the installed device and switch on. Loosen Allen screws (c) at the column foot. Turn the column until the laser light spot is incident in the middle of the adjacent column or the next Deflecting Mirror. Then retighten the Allen screws (c).
11. Switch on the devices in the columns and check to ensure proper alignment. Optimum alignment is achieved if the contamination and weak-signal indicators on the device do not illuminate.
12. Carefully remove the supplied protective screen from the protective packaging, guide into the front slot, and secure the cover from above.



a = Protective screen
b = Guide slot
c = Profile