

# LED Downlights



## Danger of electrocution!

Be sure to have a professional electrician complete installation. There is no warranty coverage for any lamps installed without observing European safety directives.



## Fire hazard!

Do not cover lamps with heat-insulating materials.



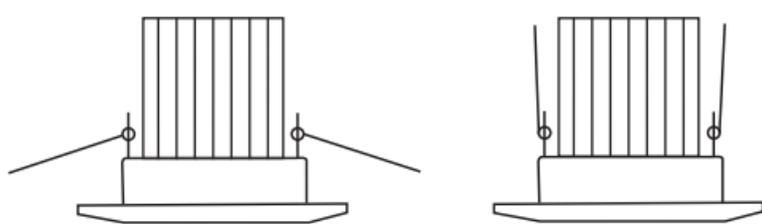
## Caution!

Use a flexible voltage cable with two cores at the secondary side of the converter.

The lamp is suitable for mounting on normally amammable surfaces such as wood and particle board materials which are more than 2 mm thick. Only install lamps so that they shine downwards.

For the installation in concrete ceilings or other extreme thermal conditions (only possible with steel/stainless steel downlights), please use an installation pot.

Make sure that the springs are in the right position.



Technical data: See label on lamp.

Protection class 3 – Low-voltage

50 V (AC) – 100 V (DC).

Use a safty transformer complying with EN 61558, electronic step-down convertor complying with EN 61347 or a voltage source complying with DIN VDE 0100, Part 410.

Be sure to observe the instructions for installation of the device being used.



Equiv.

**SELV**

CE compliant with the applicable European directives.



## Caution!

### Only necessary for Dim To Warm!

To realize a color temperature control, the used converter has to be regulated by phase cut dimming on the primary side (e.g. Berker 286710)



## Installation

### Danger of electrocution!

Switch off voltage prior to installation.

Ensure that voltage cannot be accidentally switched on again.

1. Saw a hole at the installation location (see package for diameter).
2. Connect the LED Downlight to the two wires under compliance of correct polarity on the output side of LED converter. Finally connect the primary input side with 230 V AC mains voltage.

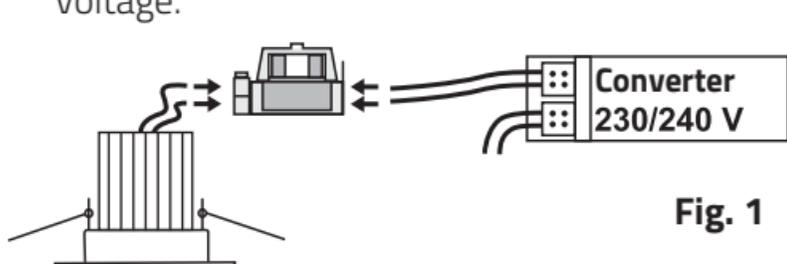
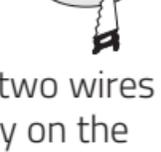


Fig. 1

### For single installation:

Use a terminal to connect the LED module to the converter, please make sure that you use the right polarity.

### For group installation:

Use a terminal to connect the LED modules in series to the converter.



3. Press the springs together and place the lamp in the sawn out hole (see Figure 2).
4. Power on.

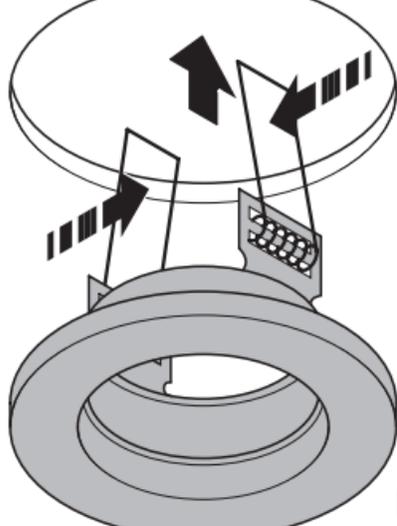


Fig. 2

## Replacing lamp (if possible\*)



### Danger of electrocution!

Always disconnect voltage before replacing the lamp.

### Models with snap ring

1. Press snap ring together and remove.
2. Take the module out of the fixture.
3. Insert a new module.
4. Put snap ring back in. The snap ring is seated properly when the module is fixed in the highest possible position and the end of the snap ring points downward.

### Models with quarter-turn fastener:

1. Turn the quarter-turn fastener anticlockwise and remove it.
2. Take the module out of the fixture.
3. Insert a new module.
4. Put quarter-turn fastener on and tighten by turning clockwise.

\* The information can be found on the energy efficiency class label ([www.rutec.de](http://www.rutec.de))

### Caution!

Stainless steel downlights require a regular care. Please do not use any strong cleaner.

We recommend cleaning with Item No. 55137 (surface cleaner) and Item No. 55136 (sponge universal cleaner)

