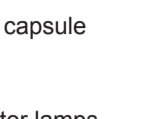


ENG Halogen Downlights

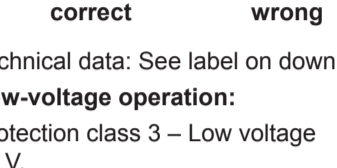
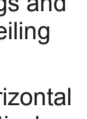
⚠ Risk of electric shock!
Be sure to have a qualified electrician complete installation. There is no warranty coverage for any downlights installed without observance of the European safety directives.

⚠ Fire hazard!
Do not cover lights with heat-insulating materials.
Ensure that the minimum clearance between downlight and the nearest object which the light is directed on is maintained (see label on downlight).



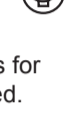
⚠ Risk of injury!
Only use suitable lamps.
Light spots:
Use only halogen pin-base capsule lamps.
All other downlights:
Use only glass faced reflector lamps.

⚠ Caution!
Use HO3VVH2-F 2x 0.75 mm cable only for all connections.
Use low-pressure halogen lamps only which comply with IEC 598 (EN 60598). The lamps must be approved for use as exposed lamps.
Do not use cool beam lamps.
The downlight is suitable for mounting in normally flammable surfaces such as wood and particle board materials which are more than 2 mm thick. Only install downlights so that they shine downwards.
For installation in concrete ceilings and other high thermal loads in the ceiling please check with rutec.
The ceiling clips must be in a horizontal position after installation, not vertical.

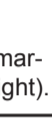


Technical data: See label on downlight.

Low-voltage operation:
Protection class 3 – Low voltage 12 V.



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

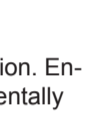


Be sure to observe the instructions for installation of the device being used.

Use low-voltage strain relief (except for light spots).

High-voltage operation:
This is only possible with specially marked downlights (see label on downlight).

Protection class 2 – high voltage 230 V. Use halogen high-voltage lamps and high-voltage strain relief.



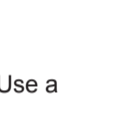
CE compliant with the applicable European directives.



Installation

⚠ Risk of electric shock!
Switch off voltage prior to installation. Ensure that voltage cannot be accidentally switched on again.

1. Cut out an aperture at the installation location (see package for diameter).
2. Mount the transformer according to the transformer instructions (only for low-voltage operation). Connect 230 V cord to the input side to the and on the output side to the 12 V cord (see Figure 1).



3. Connect the downlight.

Light spots:
connect light and transformer. Use a terminal clamp.

All other downlights:
install strain relieve as per instructions supplied and connect.

4. Press the springs together and place the lamp in the cut out aperture (see Figure 2).



Fig. 2

Replacing the lamp

⚠ Risk of electric shock!
Always disconnect voltage before replacing the lamp.

- Models with snap ring (Fig. 3):**
1. Press snap ring together and remove.
 2. Take the lamp out of the fixture.
 3. Insert a new lamp.
 4. Put snap ring back in. The snap ring is seated properly when the lamp is fixed in the highest possible position and the end of the snap ring points downward.

- Models with removable baffle (Fig. 4):**
1. Pull baffle off.
 2. Pull lamp out of the fixture and pull baffle out.
 3. Insert a new lamp.
 4. Put baffle on.

- Models with quarter-turn fastener (Fig. 5):**
1. Turn the quarter-turn fastener anticlockwise and remove.
 2. Take the lamp out of the fixture.
 3. Insert a new lamp.
 4. Put quarter-turn fastener on and tighten by turning clockwise.

- Models with clip fastener (Fig. 6):**
1. Hold clip fastener with thumb and index finger und pull from the fitting.
 2. Take the lamp out of the fixture.
 3. Insert a new lamp.
 4. Push clip fastener into the fitting until it engages with an audible click.

Light spots(Fig. 7):

⚠ Caution!
Do not touch the capsule lamp with your bare fingers. Fatty residue will considerably shorten the service life of the lamp. Use a lint-free cloth.

1. Take the lamp out of the fixture.
2. Insert a new lamp.

