

LV Rotary dimmer
Order-No. : 286610**Operation- and
Assembly Instructions****1 Safety instructions**

Electrical equipment may only be installed and fitted by electrically skilled persons.

Failure to observe the instructions may cause damage to the device and result in fire and other hazards.

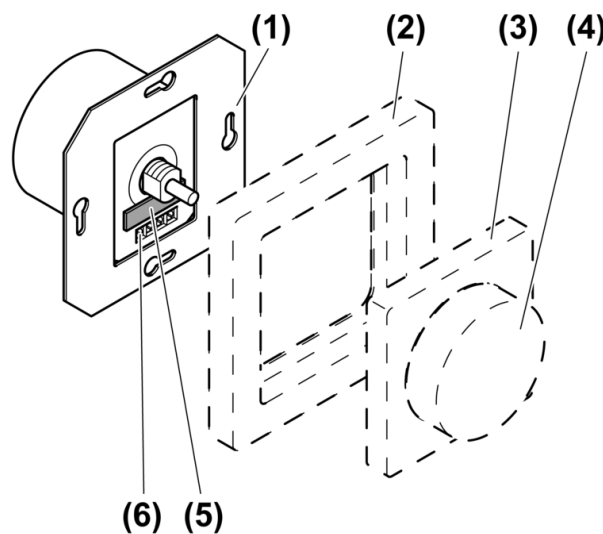
Danger of electric shock. Always disconnect before carrying out work on the device or load. At the same time, take into account all circuit breakers that supply dangerous voltage to the device or load.

Danger of electric shock. Device is not suitable for disconnection from supply voltage.

Fire hazard. For operation with inductive transformers, each transformer must be fused on the primary side in accordance with the manufacturer's instructions. Only safety transformers according to EN 61558-2-6 may be used.

Do not connect any electronic lamps, e.g. switchable or dimmable compact fluorescent lamps or LED lamps. Device can be damaged.

These instructions are an integral part of the product, and must remain with the end customer.


2 Device components

picture 1: Device components


- (1) Dimmer
- (2) Frame
- (3) Central plate
- (4) Control button
- (5) Fuse holder
- (6) Screw terminals

3 Function

Intended use

- Switching and dimming incandescent lamps, HV halogen lamps and dimmable inductive transformers with halogen lamps
 - Suitable for mixed operation up to the specified output (see chapter 6.1. Technical data)
 - Installation in appliance box to DIN 49073
-  No operation with electronic transformers.

Product characteristics

- Phase cut-on dimming principle
 - Soft locking on operation
 - Short-circuit protection through fine-wire fuse
 - Electronic over-temperature protection
 - Changeover switching possible in combination with changeover switch
 - Operation on 60 Hz mains possible
-  Flickering of the connected lamps due to undershoot of the specified minimum load or through centralised pulses from the power stations and soft humming of the device due to the radio interference suppressor. These are not device faults.

4 Operation

Switch light

- Press the control button.

Adjust the brightness

Light is switched on.

- Turn the control button in the clockwise direction.
The light gets brighter up to maximum brightness.
- Turn the control button in the anti-clockwise direction.
Light gets darker to minimum brightness.

5 Information for electrically skilled persons

5.1 Fitting and electrical connection



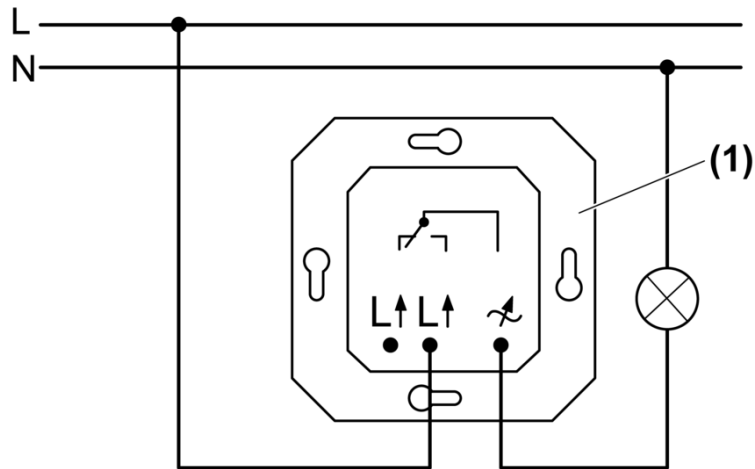
DANGER!

Electrical shock when live parts are touched.

Electrical shocks can be fatal.

Before carrying out work on the device or load, disengage all the corresponding circuit breakers. Cover up live parts in the working environment.

Connecting and mounting the dimmer

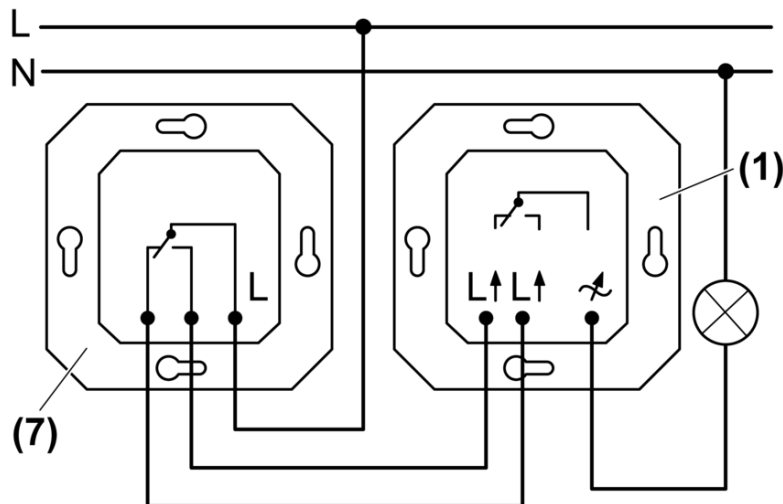


picture 2: Connection diagram

- Connect the dimmer (1) according to the connection diagram (picture 2).
- Mount the dimmer in the accessory socket.
- Attach the frame and the central plate.
- Attach the control button.

Connection in changeover switch

i No changeover switch possible with two dimmers.



picture 3: Changeover switch

- Connect the dimmer (1) and the changeover switch (7) according to the connection diagram (picture 3).

5.2 Commissioning

Setting basic brightness in operation on 60 Hz mains

The basic brightness is set ex works for operation on 50 Hz mains. If the dimmer is used on 60 Hz mains, the basic brightness must be reset by an electrically skilled person.

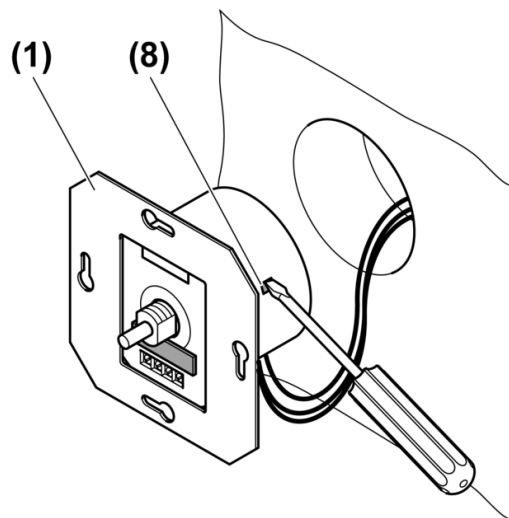


DANGER!

Electrical shock when live parts are touched.

Electrical shocks can be fatal.

Use only insulated tools to set the basic brightness. Cover up live parts in the working environment.



picture 4: Adjusting basic brightness

- (1) Dimmer
- (8) Basic brightness setter
 - Switch off the mains voltage.
 - Connect dimmer as described above, but do not install in the appliance box yet. When doing this, ensure insulation of the cables in accordance with regulations.
 - Switch on mains voltage.
 - Press the rotary axle to switch on the lighting and turn it left to the minimum brightness.
 - Adjust basic brightness by turning the lateral adjuster (8) (picture 4).
- i** According to EN 60669-2-1 (01.2000), lamp brightness should be detectable over the whole load area, with darkness at – 10 % rated voltage.
 - Switch off the mains voltage.
 - Mount the dimmer in the accessory socket.
 - Mount the frame and the central plate.
 - Attach the control button.
 - Switch on mains voltage again.


6 Appendix

6.1 Technical data

Rated voltage
Mains frequency
Ambient temperature

AC 230 / 240 V ~
50 / 60 Hz
+5 ... +25 °C

Connected load at 25 °C

 Operate inductive transformers with at least 85% nominal load.

 Power specifications including transformer power dissipation.

Incandescent lamps	20 ... 500 W
HV halogen lamps	20 ... 500 W
Inductive transformers	20 ... 500 VA
Ohmic-inductive	20 ... 500 VA

Power reduction

per 5°C in excess of 25°C -10 %

when installed in wooden or dry construction walls -15 %

when installed in multiple combinations -20 %

Power boosters

See power booster instructions

Connection

Single stranded

max. 4 mm²

Fine-wire fuse

D 3.15 H 250



The symbols used to label the dimmer load shows the load type that can be connected to a dimmer and the electric behaviour of a load: R = ohmic, L = inductive

6.2 Troubleshooting

The device switches the load off and only on again after some time.

Overheating protection has tripped.

Reduce the connected load.

Check the installation situation.

Device switches load off and remains switched off.

Short-circuit protection has tripped.

Check the fine-wire fuse

Replace the fine-wire fuse Use only original fuses (see "Technical data").

6.3 Warranty

We reserve the right to make technical and formal changes to the product in the interest of technical progress.

Our products are under guarantee within the scope of the statutory provisions.

If you have a warranty claim, please contact the point of sale or ship the device postage free with a description of the fault to the appropriate regional representative.

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