

Tronic-dimmer 20-525 W
Order-No. : 0307 00

Operating instructions

1 Safety instructions

Electrical equipment may only be installed and fitted by electrically skilled persons. Serious injuries, fire or property damage possible. Please read and follow manual fully.

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.

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

2 Device components

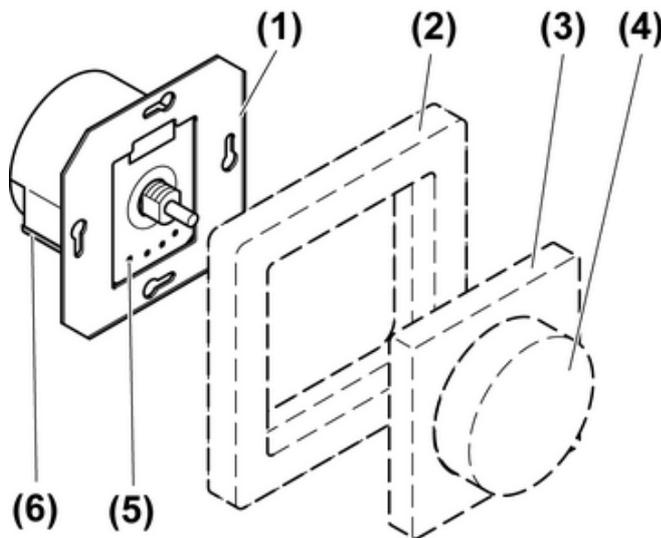


Figure 1: Device components

- (1) Dimmer
- (2) Frame
- (3) Central plate
- (4) Control button
- (5) Measuring points for voltage test
- (6) Release lever for plug terminal

3 Function

Intended use

- Switching and dimming incandescent lamps, HV halogen lamps and Tronic- 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.

i No operation with inductive transformers.

Product characteristics

- Dimming principle, phase cut-off.
 - Soft locking on operation
 - Electronic short-circuit protection with permanent switch-off after 7 seconds at the latest
 - Electronic over-temperature protection
 - Changeover switching possible in combination with changeover switch
 - Control output **A** to output the switching status of the device to control automatic power disconnection or relay.
- i** Control output **A** may not be used as a load output.
- i** Flickering of the connected lamps due to undershoot of the specified minimum load or through centralised pulses from the power stations. This does not represent any defect in the device.

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

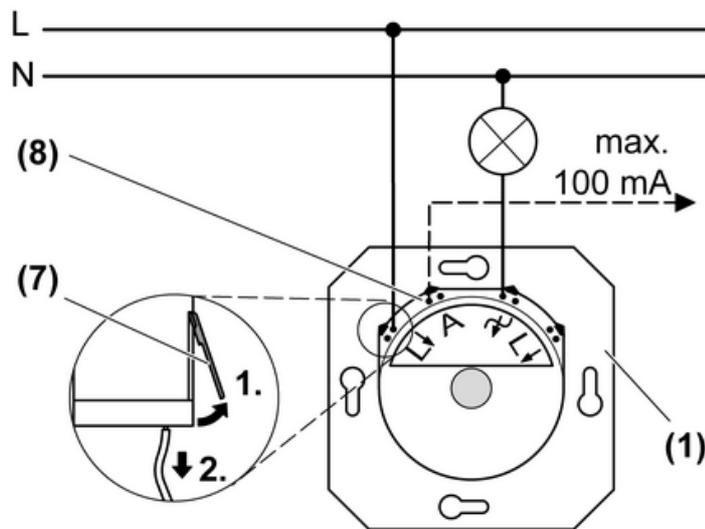


Figure 2: Connection diagram

- (1) Dimmer
- (7) Pull the connecting cable out of the push terminal.
- (8) Control output A
 - Remove approx. 15 mm of insulation from the connecting cables.
 - Connect the dimmer according to the connection diagram (Figure 2).
 - Fit dimmer in appliance box, connection terminals must be at the bottom.
 - Mount the frame and the central plate.
 - Attach the control button.

Connection in changeover switch

- i** No changeover switch possible with two dimmers.

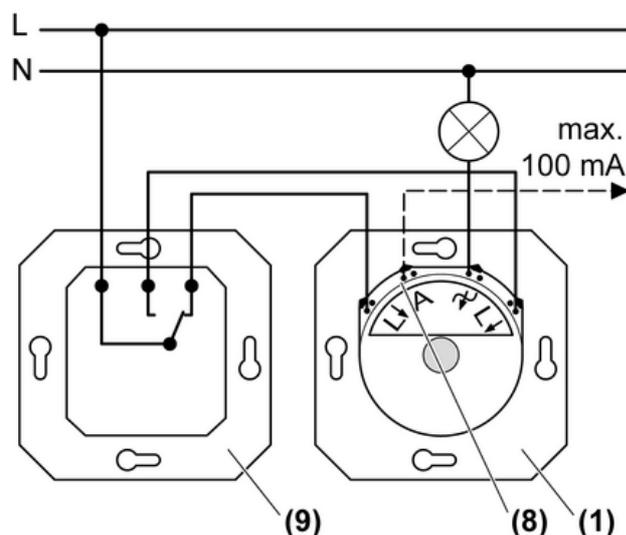


Figure 3: Changeover switch

- (1) Dimmer
- (8) Control output A

(9) Changeover switch

- Connect the dimmer (1) and the changeover switch (9) according to the connection diagram (Figure 3).

6 Appendix

6.1 Technical data

Rated voltage	AC 230 V ~
Mains frequency	50 Hz
Ambient temperature	+5 ... +25 °C
Connected load at 25 °C	
 Power specifications including transformer power dissipation.	
Incandescent lamps	20 ... 525 W
HV halogen lamps	20 ... 525 W
Tronic transformers	20 ... 525 W
ohmic-capacitive	20 ... 525 W
Power reduction	
when surface-mounted	20 ... 500 W
per 5°C in excess of 25°C	-10 %
when installed in wooden or dry construction walls	-15 %
when installed in multiple combinations	-20 %
Connection	
Single stranded	1.0 ... 2.5 mm ²
Stripping length	15 mm
Power boosters	See power booster instructions
Control output A	
Current carrying capacity	100 mA



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, C = capacitive

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.

The device switches the load off briefly and then on again.

Short-circuit protection has tripped but now there is no longer a fault.

The device switches the load off and cannot be switched on again.

Short-circuit protection has tripped.

Eliminate short-circuit.

Switch the dimmer back on by pressing the control knob twice.

-  Short-circuit protection is not based on a conventional fuse, no metallic separation of the operational current.

6.3 Warranty

The warranty is provided in accordance with statutory requirements via the specialist trade.

Please submit or send faulty devices postage paid together with an error description to your responsible salesperson (specialist trade/installation company/electrical specialist trade). They will forward the devices to the Gira Service Center.

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