

**Tronic rotary dimmer with soft-lock**  
Order-No. : 2874

**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.

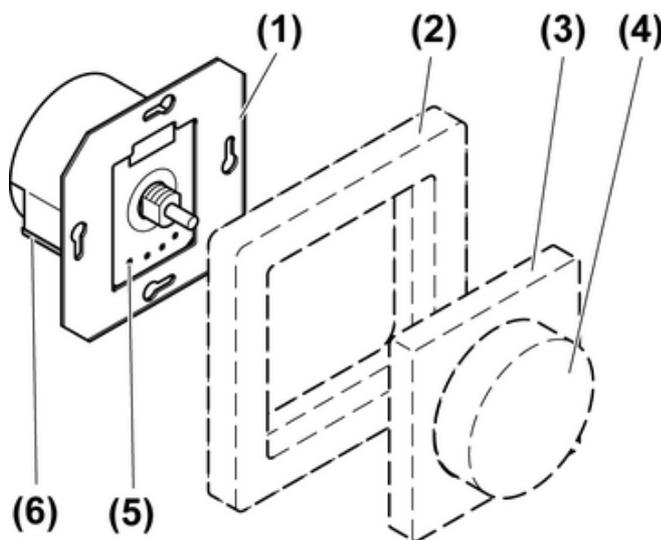
**Danger of electric shock. Always disconnect before carrying out work on the device or load. At the same time, take into account all circuit breakers that supply dangerous voltage to the device or load.**

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

**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) 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

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**DANGER!**

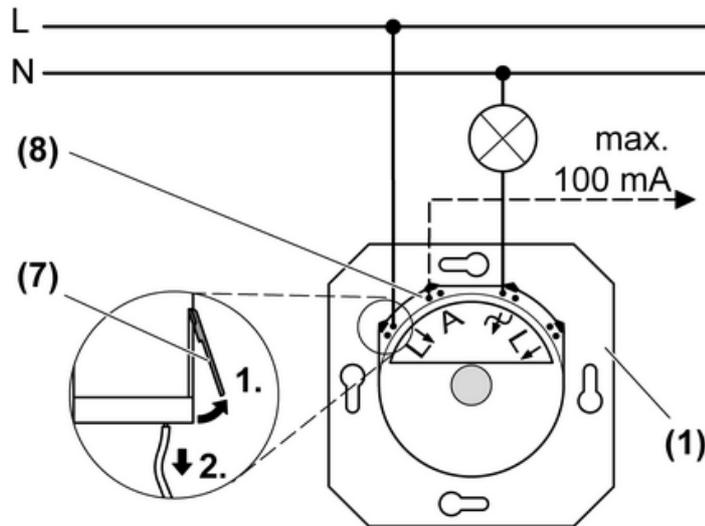
**Electrical shock when live parts are touched.**

**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.**

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**Connecting and mounting the dimmer**

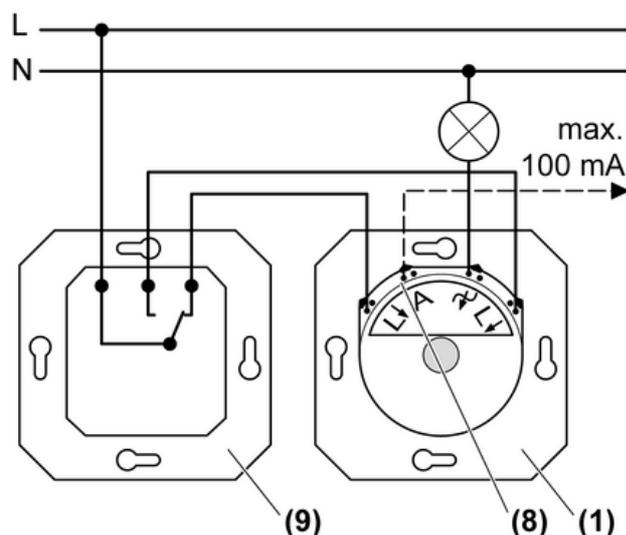


picture 2: Connection diagram

- (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 (picture 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.



picture 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 (picture 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 <sup>2</sup>
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

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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