

**Tronic flush dimmer**  
Order No. : 0381 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. The load is not electrically isolated from the mains even when the device is switched off.**

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

### 2 Device components

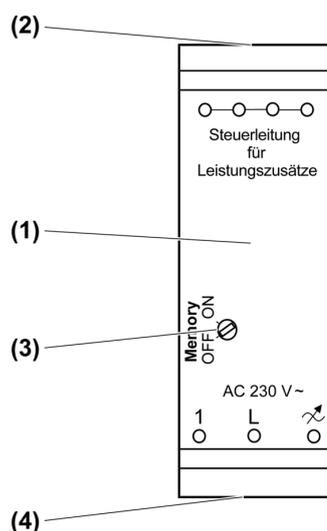


Figure 1: Device components

- (1) Dimmer
- (2) Connection of control cable for power boosters
- (3) Memory switch
- (4) Connection of mains and load

### 3 Function

#### Intended use

- Switching and dimming incandescent lamps, HV halogen lamps and Tronic- transformers with halogen lamps
- Suitable for mixed load up to the specified output (see chapter 6.1. Technical data)
- Installation in false ceilings or surface mounting

**i** No operation with inductive transformers.

#### Product characteristics

- Operation via installation button with NO contact
- Electronic short-circuit protection with permanent switch-off after 7 seconds at the latest

- Electronic over-temperature protection
  - Can be switched to memory function with brightness memory
  - Power extension through power boosters (see power booster instructions)
- 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 push-button briefly.  
Memory switch OFF: light is switched on with maximum brightness or light is switched off.  
Memory switch ON: Light is switched on with the last brightness set or light is switched off.

### Switch light on at minimum brightness

Memory switch OFF.

- Long press on push-button until the light switches on.

### Adjust the brightness

Light is switched on.

- Long press on push-button.  
Memory switch OFF: the light becomes brighter up to maximum brightness, remains there briefly and becomes dimmer down to minimum brightness, remains there briefly and becomes brighter again. This process repeats for as long as the push-button remains pressed.
- i** The dimming direction is retained when there is another long press on the push-button.  
Memory switched ON: the light becomes brighter or dimmer as far as the first limit value, remains there briefly, and then changes the dimming direction. This process repeats for as long as the push-button remains pressed.
- i** The dimming direction is reversed when there is another long press on the push-button.
- i** A mains failure of longer than 2 seconds deletes the stored brightness value.

## 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 the dimmer

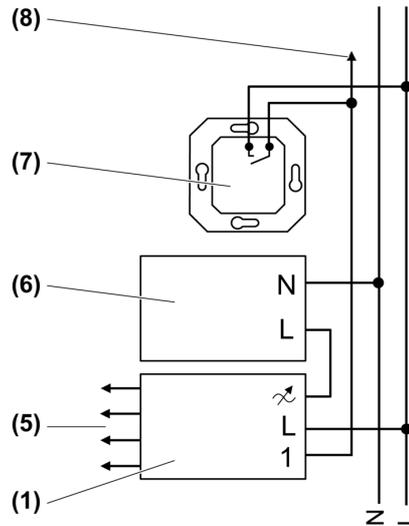


Figure 2: Connection diagram

- (1) Dimmer
- (5) Control cable for power boosters
- (6) Load
- (7) Installation button, NO contact
- (8) Connection of additional installation buttons

- i** When using power booster, always also load dimmer directly with Tronic transformers or incandescent lamps.
- i** Minimum diameter of ceiling opening for installation in false ceilings: 63 mm.
- i** Illuminated installation buttons may be connected if they have a separate N terminal.
  - Connect dimmer and installation button according to connection diagram (Figure 2).
  - If multiple miniature circuit breakers supply dangerous voltages to the device or load, couple the miniature circuit breakers or label them with a warning, to ensure release is guaranteed.
  - Reposition memory switch if necessary.

## 6 Appendix

### 6.1 Technical data

Rated voltage	AC 230 V ~
Mains frequency	50 Hz
Housing temperature	70 °C (tc)
Connected load at 25 °C	
<b>i</b> Power specifications including transformer power dissipation.	
Incandescent lamps	50 ... 700 W
HV halogen lamps	50 ... 700 W
Tronic transformers	50 ... 700 W
ohmic-capacitive	50 ... 700 W
Connection	
single stranded	max. 4 mm <sup>2</sup>
finely stranded with conductor sleeve	max. 1.5 mm <sup>2</sup>
Finely stranded	max. 2.5 mm <sup>2</sup>
Number of control sections	
Non-illuminated installation buttons	unlimited

Total length power cable	max. 100 m
Total length of extension unit cable	max. 100 m
Dimensions L×W×H	212×48.5×46 mm



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 dimmer switches the load off briefly and then on again.**

Cause: short-circuit protection has tripped but now there is no longer a fault.

### **The dimmer switches the load off and cannot be switched on again.**

Cause 1: short-circuit protection has tripped.

Eliminate short-circuit.

Switch dimmer back on again by pressing the button.

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

Cause 2: overheating protection has tripped.

Disconnect dimmer from mains, also switch associated off circuit breakers.

Let dimmer cool down for at least 15 minutes.

Check the installation situation.

Reduce the connected load.

Switch circuit breakers and dimmer on again.

## 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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