



## Operating instructions

### 1.0 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.

### 2.0 Device components

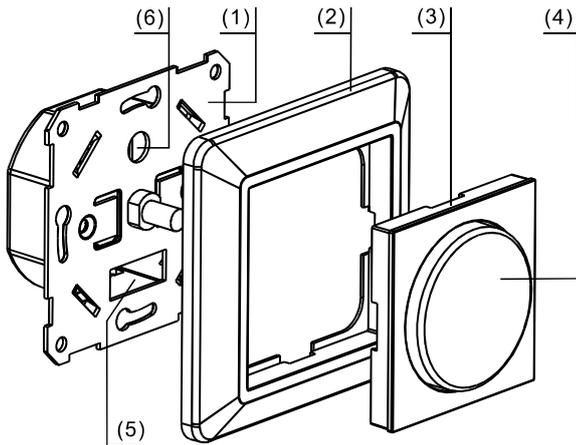


Figure 1: Device components

- (1) Dimmer (2) Frame (3) Central plate
- (4) Adjusting knob (5) Screw terminals (6) MIN knob

### 3.0 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 DIN49073

!!! No operation with inductive transformers.

#### Product characteristics

- Dimming principle, phase cut-off
- Soft start, minimum to maximum brightness delay time is about 3 seconds
- Electronic short-circuit protection with permanent switch-off after 7 seconds at the laster
- Electronic over-temperature protection, 120°C off, automatically open below 120°C
- Changeover switching possible in combination with chaniver switch

!!! Flicketing 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.

### 4.0 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
- Turn the MIN knob in the anti-clockwise direction to the obtain expected brightness.

### 5.0 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, disconnect all the corresponding circuit breakers. Cover up live parts in the working environment.

##### Connecting and mounting the dimmer

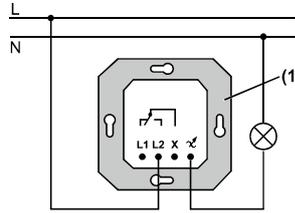


Figure 2: Connection diagram

- Connect the dimmer (1) according to the connection diagram (figure 2).
- Mount the dimmer (1) in the accessory socket.
- Mount the frame (2) and the central plate (3).
- Attach the adjusting knob (4).

##### Connection in changeover switch

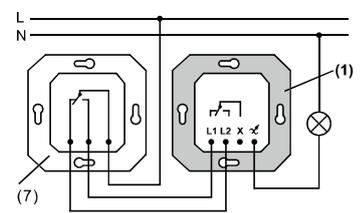


Figure 3: Changeover switch

!!! No changeover switch possible with two dimmers.

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

### 6.0 Appendix

#### 6.1 Technical data

Rated voltage / frequency	220-240VAC / 50Hz
Ambient temperature	+5...+25°C
Connected load at 25°C, Power specifications including transformer power dissipation	
Dimmable LEDs (PF=Power factor)	PF>0.9 10...200W PF=0.5-0.6 10...100W
HV halogen / Incandescent lamps	10...200W
Tronic transformers	10...200W
Ohmic-capacitive	10...200W
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%
Connection Single stranded	1.0... 2.5 mm <sup>2</sup>



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 and only on again after some time

Overheating protection has tripped. Reduce the connected load. Check the installation situation.

##### The dimmer switches the load off briefly and then on again

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

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

We provide a warranty as provided for by law.

Please send the unit postage-free with a description of the defect to our central customer service office.