Tronic power boost
Order-No. : 0380 00

Operating 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 devise 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.

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

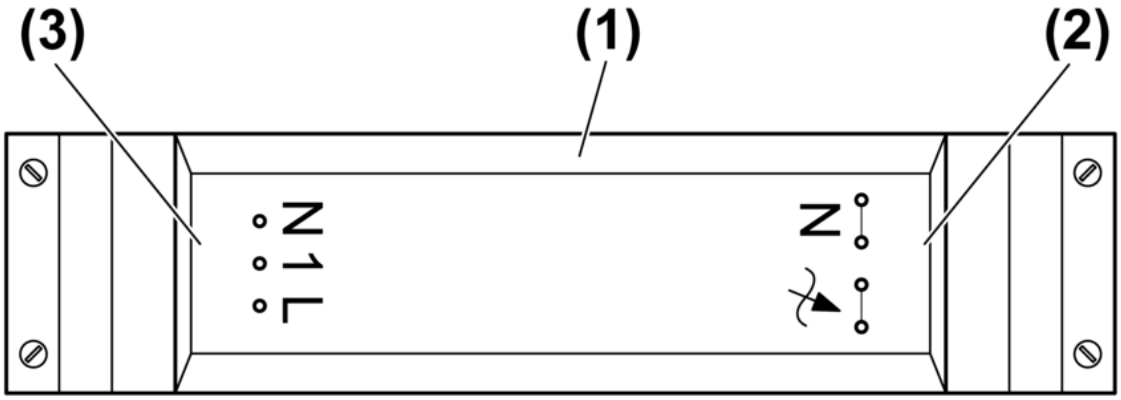

Figure 1

(1) Power extension
(2) Load connection
(3) Dimmer connection

3 Function

Intended use

- Output extension of TRONIC dimmers, which work according to the phase section principle.
- Output extension of universal dimmers, which have detected an ohmic or capacitive basic load.
  Do not operate universal dimmers with an inductive load.
- Connection of filament lamps, HV halogen lamps and TRONIC transformers with halogen lamps.
- Suitable for mixed operation up to the specified output (see chapter 5.1. Technical data)
- Do not operate the corresponding dimmers without a load.
- Installation in false ceilings or surface mounting

Product characteristics

- Connection of multiple power extensions to one dimmer possible
- Operation using upstream dimmer
- Electronic short-circuit protection with permanent switch-off after 7 seconds at the latest
- Electronic over-temperature protection

i Brightness differences between the lighting at the dimmer and the lightning at the power extension are possible.

4 Information for electrically skilled persons

4.1 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.

Fitting and connecting the power extension

i Use the same external conductor for dimmers and power extensions. Do not swap L and N on the power extension. Otherwise, there is the risk of malfunction.

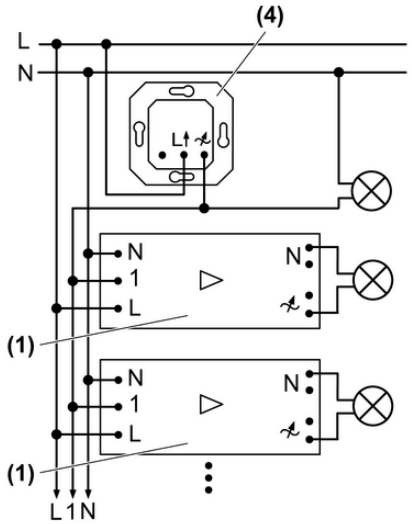

Figure 2

(1) Power extension
(4) Dimmer

- Fit the power extension.

i Minimum diameter of ceiling opening for installation in false ceilings: 63 mm.

- Connect the power extension according to the connection diagram (Figure 2).

i In the case of lighting systems with an output of more than 3500 W/VA, the installation must divided across two circuit breakers with the same external conductor.

- If multiple circuit breakers supply dangerous voltages to the device or load, couple the circuit breaker to ensure tripping.

5 Appendix

5.1 Technical data

Rated voltage	AC 230 V ~
Mains frequency	50 Hz
Ambient temperature	+5 ... +45 °C
Housing temperature	70 °C (tc)
Power loss	max. 10 W
Connected load at 25 °C	
i Power specifications including transformer power dissipation.	
Incandescent lamps	100 ... 700 W
HV halogen lamps	100 ... 700 W
Tronic transformers	100 ... 700 W
ohmic-capacitive	100 ... 700 W
Connection	
Single stranded	max. 4 mm²
finely stranded with conductor sleeve	max. 1.5 mm²
Finely stranded	max. 2.5 mm²
Number of power extensions	max. 10
Total length power 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

5.2 Troubleshooting

The power extension briefly switches its load off and on again.

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

The power extension switches its load off and cannot be switched on again.

Cause 1: short-circuit protection has tripped.

Eliminate short-circuit.

Switch the power extension on again with the upstream dimmer.

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 device from mains, also switch associated off circuit breakers.

Let device cool down for at least 15 minutes.

Check the installation situation.

Reduce the connected load.

Switch circuit breakers and device on again.

All the loads are switched off.

Cause: Device protection dimmer has tripped.

Check the dimmer.

5.3 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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