

theben

DIMAX 532 plus 5320001

GB Installation and operating instructions
Universal dimmer



1. Essential safety instructions



WARNING

Danger of death through electric shock or fire!

- Installation should only be carried out by a professional electrician!

- The dimmer is designed for installation on DIN top hat rails (in accordance with EN 60715)

Designated use

- The universal dimmer corresponds to IEC/EN 60669-2-1; it switches and dims the brightness of different light elements such as incandescent lamps, halogen lamps, high-voltage lamps, low-voltage halogen lamps (conventional or with electronic transformer), dimmable compact light lamps (energy-saving lamps) or dimmable LED lamps for 230 V. The brightness setting is made via the push buttons connected to the dimmer; use in enclosed rooms
- The universal dimmer has a lamp-friendly "soft" on and off system, automatic detection of the load type (not in the case of CFL 2 and LED2), overheating protection against overload as well as a short-circuit protection.

Disposal

Dispose of the dimmer in an environmentally sound manner (electronic waste)

2. Connection/installation

WARNING

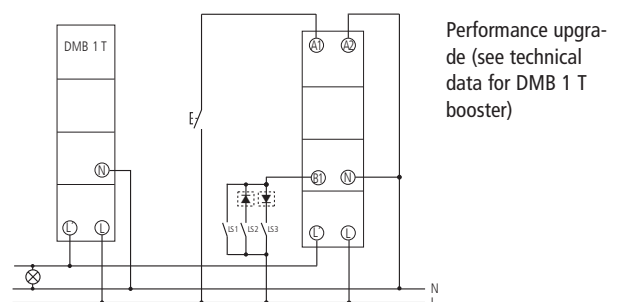
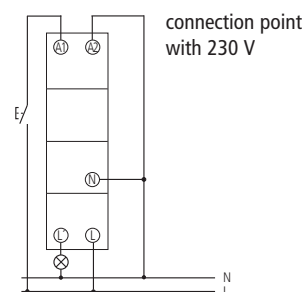
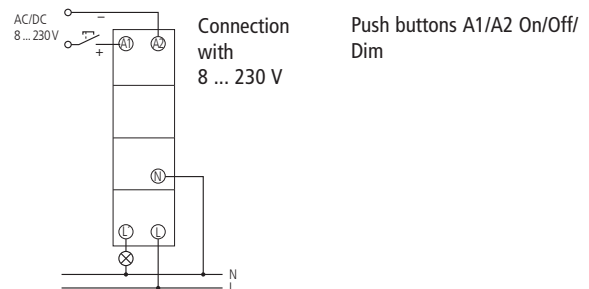


Danger of death through electric shock!

- Disconnect power source!
- Cover or shield any adjacent live components.
- Ensure device cannot be switched on!
- Check power supply is disconnected!
- Earth and bypass!
- Mount the dimmer in the lower part of the distributor to avoid an excessively high temperature during use.
- In the case of a service line of > 300 W keep an 8 mm distance to the right and left of the device.

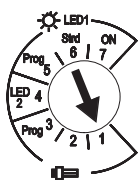


- Always operate electronic and conventional transformers with the minimum load designated by the manufacturer.
- Only use dimmable compact fluorescent/LED lamps; normal compact fluorescent/LED lamps could be irreparably damaged.
- When replacing lamps, switch off the power supply (at the fuse box) to ensure that the automatic load detection can be reactivated.
- Do not connect dimmer load connections (L) in parallel.
- Do not bypass or short-circuit the dimmer.
- Do not install an isolation or adjustable transformer before the dimmer.
- Do not mix wound and electronic transformers in the installation.
- Do not mix wound transformers and compact fluorescent lamps/LEDs in the installation.
- Do not connect push buttons with glow lamps.
- Correct, automatic load detection is only possible possible with a connected load.
- Only use transformers approved by the manufacturer for dimmer operation.



Connection with
Booster DMB 1 T (4930279)

4. Functions



Functions for dimmable compact fluorescent lamps (CFL)

- with adjustable switch-on brightness (preset 100 %)
- with dimming switch-on function

- 1 with automatic load recognition (ideal for lamps from Megaman, Philips); Start always with 100 %, so the CFLs go on; dimming down only possible after 3 s
- 2 No automatic load recognition (always with phase section) (ideal for lamps from Osram, Philips); Start always with at least 50 %, so the CFL go on; dimming down possible after 2 s
- 3 **Prog** Teach in minimum brightness (only for ESL)

Notes

With some compact fluorescent lamps disruptive flickering may occur when dimming in function 2.

- In this case use function 1.
- Only change settings with warm compact fluorescent lamps (after approx. 5 minutes).

Some compact fluorescent lamps can cause an overload in function 2, which automatically leads to the dimming down of the load.

- Select function 1 to avoid this.

Function for LEDs

- 4 **LED2** Function for LEDs; no automatic load recognition (always with phase section) (ideal for dimming problems with LEDs)



LED1

Functions for standard lamps (e.g. incandescent lamps, halogen lamps, transformers, LEDs)

- 5 **Prog** Teach in minimum brightness
- 6 **Strd** Standard function
 - with switch-on brightness (preset 100 %)
 - with dimming switch-on function
- 7 **ON** Dimmer is always on

5. Description

Dimmer is OFF (Input A1/A2)

- 1 x short button press (< 1 s) **Switch-on brightness**
The dimmer starts with the taught in switch-on brightness (factory set 100 %)

Teach switch-on brightness

- Set desired switch-on brightness.
- Press button on Input A1/A2 until a brightness change confirms that it has been learned. Afterwards it is set to the saved switch-on brightness.

- 1 x long button press (> 1 s) **Dimming switch-on function**

The dimmer switches on with minimum brightness and dims, until the button is released or the max. brightness is reached.

Minimum brightness

The preset minimum brightness is set in such a way that the lamps still light up.

Adapting minimum brightness

- Set rotary switch to 5 (to 3 for compact fluorescent lamps).
The current minimum brightness is approached.
- Press push button at Input A1/A2 and dim up or down until the brightness value is obtained.
- Release push button; the brightness value is applied.
- Set rotary switch to desired function again.

Reason: If there is a drop below a specific brightness value, the compact fluorescent lamps/LEDs go out and no longer light up.

- Tip:** ➤ Switch on compact fluorescent lamp for 5 mins, then set minimum brightness.

Dimmer is ON (Input A1/A2)

- 1 x short button press (< 1 s) switch off
- 1 x long button press (> 1 s)
 - Dimmer dims to or from
 - Dimming stops at the minimum/maximum value
 - When pushing the push button again the dimming direction is changed
- 1 x long button press (> 10 s) Dimmer dims to the minimum or maximum value. If the push button is pressed for > 10 s, the previous dimming value

(start value) is saved as the switch-on brightness (confirmed by the change in brightness). Afterwards the saved switch-on brightness is set.

6. Technical data

- Operating voltage: 230 V~, +10 %/-15 %
- Frequency: 50 Hz
- Power consumption: type. 0.3 W
- Standby: type. 0.2 W
- Incandescent lamp load: 400 W*
- Halogen lamp load: 400 W*
- Inductive transformers (L): 400 W*
- Electronic transformers (C): 300 W*
- Dimmable compact fluorescent lamps: (CFL) 80 W
- Dimmable LEDs: 60 W
- Max. line: length 100 m
- Minimum load: none
- Permissible ambient temperature: -30 °C ... +50 °C
- Protection class: II subject to correct installation
- Protection rating: IP 20 in accordance with EN 60529 subject to correct installation

* In the case of a load of > 300 W keep an 8 mm ventilation > distance to the right and left.

Service address/Hotline

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