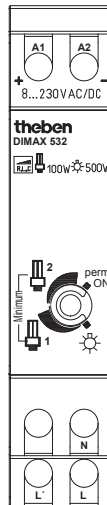


DIMAX

DIMAX 532 532 0 000

Installation and operating instructions

Universal dimmer



DIMAX 532

Contents

Basic safety instructions	3	– Functions for dimmable energy-saving lamps (ESL) 2	10
– Designated use		– Function for all lamps	11
– Disposal			
Connection/installation	4	Technical data	11
Control elements	7	Service address/Hotline	12
General functional description	7		
Description of functions	8		
– Dimming switch-on function	8		
– Switch-on brightness	8		
Adjusting the switch-on brightness	9		
– Minimum brightness	9		
– Standard function with automatic load detection	10		
– Functions for dimmable energy-saving lamps (ESL) 1	10		

Basic safety instructions



WARNING

Danger of death through electric shock or fire!

- Installation should only be carried out by a qualified 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 various light sources such as bulbs, halogen lamps, HV and LV halogen lamps (conventional or with electronic transformer) or dimmable compact fluorescent tubes (energy-saving lamps) or dimmable LED lamps for 230 V. The brightness can be adjusted using the push button attached to the dimmer; for use in enclosed spaces
- The universal dimmer has a lamp-friendly "soft" on and off system, automatic detection of the load type (not in the case of energy-saving lamps), overheating protection against overload as well as a short-circuit protection

Disposal

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

Connection/installation



WARNING



Warning, danger of death through electric shock!

- Must be installed by qualified electrician!
 - 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.

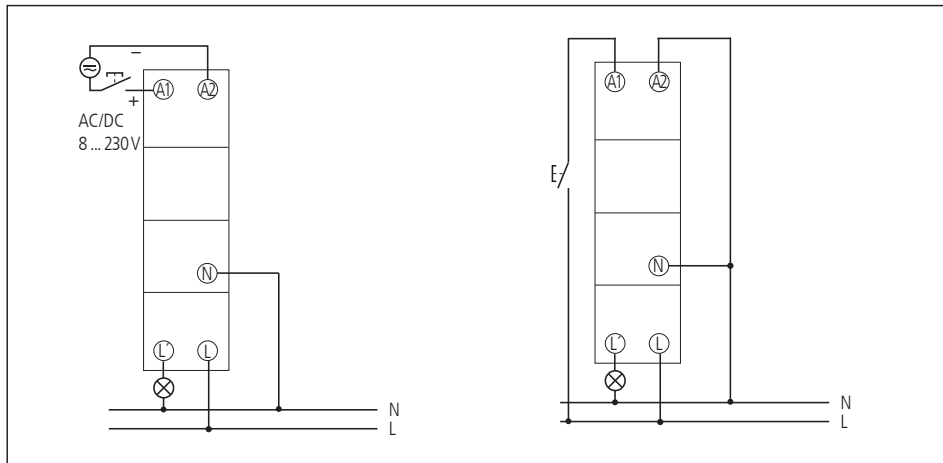
Connection/installation



- Electronic and conventional transformers must always be operated at the minimum load specified by the manufacturer.
- Only use dimmable energy-saving lamps, normal energy-saving lamps could be irreparably damaged.
- Disconnect the dimmer before changing the load.
- When replacing lamps, switch off the voltage supply (at the fuse box) to ensure that the automatic load detection can be reactivated.
- Do not connect dimmer load connections (L¹) in parallel.
- Do not bypass or short-circuit the dimmer.
- Do not install an isolating transformer or an adjustable transformer ahead of the dimmer.
- Dimmable lighting with electrical isolation (e.g. in the bathroom): Work with 12 V halogen lamps. Transformers for 12 V halogen lamps have sufficient electrical isolation.
- Do not mix wound and electronic transformers in the installation.
- Do not mix wound transformers and energy-saving lamps/LEDs in the installation.
- Do not connect push button with glow lamp.
- Correct, automatic load detection is only possible with a connected load.



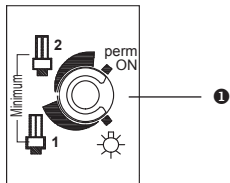
➤ Only use transformers approved by the manufacturer for dimmer operation.



Connection with
8 ... 230 V

230 V
connection

Control elements



- ① Rotary switch for setting 4 functions

General functional description

Dimmer is OFF (Input A1/A2)

- | | |
|-------------------------------------|--|
| - 1 x short keystroke
(< 1 s) | switch on with saved switch-on brightness |
| - 1 x long keystroke
(> 1 s) | switch on with minimum brightness and dim up until the push button is released or the max. brightness is obtained (dimming switch-on function) |

- 1 x short keystroke (< 1 s) switch off
- 1 x long keystroke (> 1 s)
 - Dimmer dims up/down
 - Dimming stops at the minimum/maximum value
 - When pushing the push button again the dimming direction is changed

Description of functions

Dimming switch-on function

- The dimmer switches on with minimum brightness and dims until the push button is released or the max. brightness is obtained.

Switch-on brightness

- The dimmer starts with the taught in switch-on brightness (factory set 100 %).

– Learning switch-on brightness

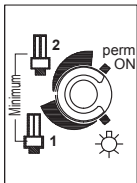
- Adjusting the desired switch-on brightness.
- Press push button A1/A2 until the minimum/maximum value is obtained.
- Press the push button for another 10 s; the value is taught in. The previous dimming value is saved as switch-on brightness (confirmed by the difference in brightness). Following this, adjustments are made according to the saved switch-on brightness.

Minimum brightness

- With the standard function, the minimum brightness is set in such a way that the lamps still light up.
- In the case of dimmable energy-saving lamps (1 and 2) the minimum brightness can be set directly at the rotary switch.

Reason: If there is a drop below a specific brightness value, the energy-saving lamps go out and cease to light up.

Tip: Switch on energy-saving lamp for 5 min and then set minimum brightness.



Standard function with automatic load detection

- with adjustable switch-on brightness
- with dimming switch-on function
- minimum brightness permanently saved in the device



Function for dimmable energy-saving lamps (ESL) 1

with automatic load detection (ideal for manufacturers Megaman, Philips)

- with minimum brightness (can be adjusted using potentiometer)
- with switch-on brightness
- with dimming switch-on function



Function for dimmable energy-saving lamps (ESL) 2

no automatic load detection (always with phase control)
(ideal for manufacturers Osram, Philips)

- with minimum brightness
- with switch-on brightness
- with dimming switch-on function

With some energy-saving lamps there may be radio interference voltages when dimming with phase control. In this case use position 1 (phase control).

perm
ON

Function perm ON:
Dimmer is always on

GB

Technical data

- Operating voltage: 230 V~, +10 %/-15 %
 - Frequency: 50 Hz
 - Power consumption: typically 0.3 W
 - Standby: typically 0.2 W
 - Incandescent lamp load: 500 W*
 - Halogen lamp load: 500 W*
 - Inductive transformer (L): 500 W*
 - Electronic transformer (C): 500 W*
 - Dimmable energy-saving lamps (ESL): 100 W
 - Cable length: max. 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
- * In the case of a load of >300 W keep an 8 mm ventilation distance to the right and left.

Service address/Hotline

Service address

Theben AG

Hohenbergstr. 32

72401 Haigerloch

GERMANY

Telephone +49 (0) 74 74 6 92 0

Fax +49 (0) 74 74/6 92-150

Hotline

Telephone +49 (0) 74 74 6 92 -369

Fax +49 (0) 74 74/6 92-207

hotline@theben.de

Addresses, telephone numbers etc.

www.theben.de