3. Installation and connection

When the mains returns, the lamp illuminates briefly for load detection.

Mounting the dimmer

WARNING

Danger of death through electric shock or fire!
Installation should only be carried out by a qualified electrician!

- Disconnect power source
- Ensure device cannot be switched on
- Check absence of voltage
- Earth and bypass
- Cover or shield any adjacent live components

Connecting the dimmer

Risk of electric shock!
The device does not have basic insulation around the terminals/plugs!
- Protect against accidental contact during installation.
- Maintain a minimum distance of 3 mm from live parts or use additional insulation, e.g. separating strips/walls.

Disposal

- Dispose of device in environmentally sound manner
> Always operate electronic and conventional transformers with the minimum load specified by the manufacturer.
> Only use dimmable LED lamps, as normal LED lamps may be destroyed.
> When changing the lamps, switch off the power supply (at the fuse box) so that the automatic load detection is reactivated.
> Do not connect dimmer load connections (L') in parallel.
> Do not bypass or short-circuit the dimmer.
> Do not install any isolating or variable transformers before the dimmer.
> Do not mix wound and electronic transformers in the installation.
> Do not mix wound transformers and LEDs in the installation.
> Do not connect buttons with glow lamps.
> Correct automatic load detection is only possible with a connected load.
> Only use transformers approved by the manufacturer for dimmer operation.

4. Description of the operating modes

DIMAX 541 plus E

The dimmer has the following functions in automatic mode:
• Dimming
• Memory function
• Wake-up and snooze function

DIMAX 542 plus S

The dimmer is equipped with a rotary switch which is used to choose between 4 operating modes:

Auto (default)
With comfort function, with automatic load detection for the conventional lamp types; wake-up and snooze function is active

Prog
Teach in the minimum brightness

LED 2
Function for LEDs that have poor dimming properties in Auto; no automatic load detection (always with leading edge); wake-up and snooze function is active

Some LED lamps may cause an overload in LED 2 that automatically leads to the load dimming.

Select Auto in order to avoid this

Perm ON (test function)
With automatic load detection, dimmer is permanently on

5. Setting the functions

1. Wake-up function (comfort function)
   • active in Auto, LED 2
   The dimmer dims from the minimum brightness to 100% within 5 min (activation via double click).

2. Snooze function (comfort function)
   • active in Auto, LED 2
   The dimmer dims from the current brightness to the minimum brightness within 5 min and switches off (activation via double click).

3. Dimming switch-on function
   • applies to Auto, LED 2
   The dimmer switches on with minimum brightness and dims until the button is released again, or the maximum brightness has been reached (activation by pressing the button for longer).

4. Memory function
   The dimmer switches on with the last brightness value saved prior to switch-off.

5. Minimum brightness (DIMAX 542 plus S only)
   • applies to Prog
   Teach in the minimum brightness
   The pre-set minimum brightness is set in such a way that most lamps still light up.
   » Set rotary switch to Prog. The current minimum brightness is approached.
   » Press the button at Input A and dim up or down until the desired minimum brightness value is reached.
   » Let go of the button; the brightness value is adopted.
   » Set the rotary switch back to the desired function (e.g. Auto).
   Reason: If there is a drop below a specific brightness value, some LEDs will go out or flicker.

6. Operation

Light is OFF (with button: Input A)

<table>
<thead>
<tr>
<th>Action</th>
<th>Time</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x short button press</td>
<td>&lt; 0.5 s</td>
<td>Memory function</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The dimmer switches on with the last brightness value saved prior to switch-off.</td>
</tr>
<tr>
<td>1 x long button press</td>
<td>&gt; 0.5 s</td>
<td>Dimming switch-on function</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The dimmer switches on with minimum brightness and dims until the button is released again, or the maximum brightness has been reached.</td>
</tr>
<tr>
<td>2 x short button press</td>
<td></td>
<td>Wake-up function</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dimmer switches on with minimum brightness, then dims to 100% within 5 min.</td>
</tr>
</tbody>
</table>
### Light is ON (with button: Input A)

<table>
<thead>
<tr>
<th>Button Press</th>
<th>Duration</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x short button</td>
<td>&lt; 0.5 s</td>
<td>Switch off</td>
</tr>
<tr>
<td>press</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 x long button</td>
<td>&gt; 0.5 s</td>
<td>Dimmer dims up or down. Dimming stops at minimum or maximum value. The dimming direction is changed by pressing the button again.</td>
</tr>
<tr>
<td>press</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 x short button</td>
<td></td>
<td><strong>Snooze function</strong>&lt;br&gt;Dimmer dims to minimum brightness within 5 min and switches off.</td>
</tr>
<tr>
<td>press</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 7. Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Trailing edge</th>
<th>Leading edge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating voltage</td>
<td>230 V +10% / −15%</td>
<td></td>
</tr>
<tr>
<td>Frequency</td>
<td>50/60Hz</td>
<td></td>
</tr>
<tr>
<td>Standby output</td>
<td>0.15 W</td>
<td></td>
</tr>
<tr>
<td>Load types</td>
<td>R/L/C</td>
<td></td>
</tr>
<tr>
<td>Minimum load</td>
<td>5 W</td>
<td></td>
</tr>
<tr>
<td>Incandescent/halogen lamp load</td>
<td>250 W (up to 25 °C) 200 W (up to 45 °C)</td>
<td></td>
</tr>
<tr>
<td>Dimmable LEDs</td>
<td>250 W (up to 25 °C) 200 W (up to 45 °C)</td>
<td>24 W (up to 25 °C) 12 W (up to 45 °C)</td>
</tr>
<tr>
<td>Electronic transformers (C)</td>
<td>250 W (up to 25 °C) 200 W (up to 45 °C)</td>
<td></td>
</tr>
<tr>
<td>Inductive transformers (L)</td>
<td></td>
<td>200 W (up to 25 °C) 130 W (up to 45 °C)</td>
</tr>
<tr>
<td>Fan</td>
<td>– 50 W</td>
<td></td>
</tr>
<tr>
<td>Cable length</td>
<td>max. 50 m</td>
<td></td>
</tr>
<tr>
<td>Cable cross-section</td>
<td>max. 4 mm²</td>
<td></td>
</tr>
<tr>
<td>Pollution degree</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Permissible ambient temperature</td>
<td>−25 °C ... +45 °C</td>
<td></td>
</tr>
</tbody>
</table>

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8. Contact

Theben AG  
Hohenbergstr. 32  
72401 Haigerloch  
GERMANY  
Phone +49 7474 692-0  
Fax +49 7474 692-150  

Hotline  
Phone +49 7474 692-369  
hotline@theben.de  
Addresses, telephone numbers etc.  
www.theben.de