

**EN Flush-mounted universal dimmer**

**DIMAX 541 plus E**  
5410130  
**DIMAX 542 plus S**  
5420130



## 1. Basic safety information



**WARNING**

**Danger of death through electric shock or fire!**

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

- ① Due to continuing technical progress, abnormalities in dimming response or radio interference cannot be ruled out when operating dimmed lamps (in particular LEDs)
- The flush-mounted universal dimmer conforms to EN 60669-2-1 if correctly installed

## 2. Proper use

- The universal dimmer switches and dims the brightness of different lamps such as bulbs, high-voltage halogen lamps, low-voltage halogen lamps (conventional or with electronic transformer) or dimmable LED lamps for 230 V as well as fans
- The brightness can be adjusted using buttons attached to the dimmer
- DIMAX 541 plus E has no setting option (automatic mode)
- The 4 operating modes are set via the rotary switch (on DIMAX 542 plus S)
- The universal dimmer is equipped with a "gentle" lamp conserving function for switching on and off, automatic detection of the load type (not in the case of LED2), overheating protection against overload as well as short-circuit protection
- For use in private and public residential construction, in closed rooms
- Suitable for retrofitting

### Disposal

- Dispose of device in environmentally sound manner

## 3. Installation and connection

- ① When the mains returns, the lamp illuminates briefly for load detection.

### Mounting the dimmer

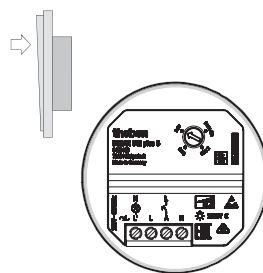


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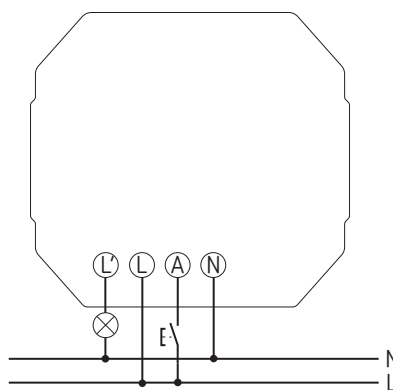
- Installation should only be carried out by a qualified electrician!

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



- Install in conventional flush-mounted boxes (according to DIN 49073)

### Connecting the dimmer



- ① Several dimmers can be controlled with one button.



**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.

- 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<sup>1</sup>) 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

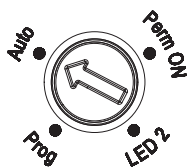
### DIMAX 541 plus E

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

- ① 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**, **LED2**

The dimmer dims from the minimum brightness to 100% within 5 min (activation via double click).

### 2. Snooze function (comfort function)

- active in **Auto**, **LED2**

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**, **LED2**

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)

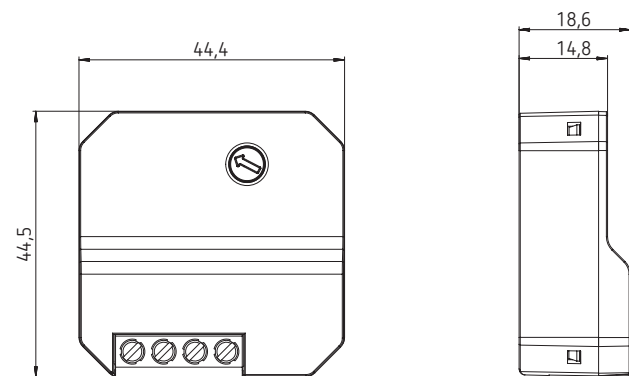
1 x short button press	< 0.5 s	<b>Memory function</b> The dimmer switches on with the last brightness value saved prior to switch-off.
1 x long button press	> 0.5 s	<b>Dimming switch-on function</b> The dimmer switches on with minimum brightness and dims until the button is released again, or the maximum brightness has been reached.
2 x short button press		<b>Wake-up function</b> Dimmer switches on with minimum brightness, then dims to 100% within 5 min.

## Light is ON (with button: Input A)

1 x short button press	< 0.5 s	Switch off
1 x long button press	> 0.5 s	Dimmer dims up or down. Dimming stops at minimum or maximum value. The dimming direction is changed by pressing the button again.
2 x short button press		<b>Snooze function</b> Dimmer dims to minimum brightness within 5 min and switches off.

## 7. Technical data

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



## 8. Contact

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