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*Eltako*

## Universal dimming actuator IP

EUD62NPN-IP/110-240V



**Only skilled electricians may install this electrical equipment otherwise there is the risk of fire or electric shock!**

Temperature at mounting location:  
-20°C up to +50°C.  
Storage temperature: -25°C up to +70°C.  
Relative humidity:  
annual average value <75%.

**Universal dimming actuator. With power MOSFET. Dimmable 230 V LED lamps in 'phase cut-off' mode up to 300 W or in 'phase control' mode up to 100 W depending on ventilation conditions. 230 V incandescent lamps and halogen lamps up to 300 W depending on ventilation conditions. No minimum load.**

**Only 0.7 watt standby loss.**

For installation. 49 x 51 mm wide, 25 mm deep.

**The terminals are plug-in terminals for conductor cross-sections of 0.2 mm<sup>2</sup> to 2.5 mm<sup>2</sup>.**

**Zero passage switching with soft ON and soft OFF to protect lamps.**

Supply voltage, switching voltage and control voltage local 110-240 V.

The brightness level is stored on switch-off (memory).

If supply voltage fails, the device is switched off in defined mode.

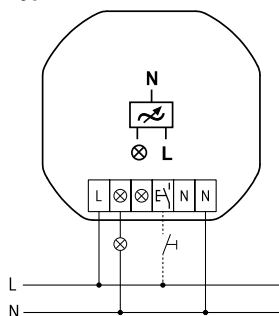
Automatic electronic overload protection and overtemperature switch-off.

With control input for a mains voltage control button that may be installed in front of it.

Glow lamp current is not permitted.

This actuator is Apple-certified and can therefore be taught in Apple Home.

## Typical connection



## Add device to Apple Home:

- Only 2.4 GHz Wi-Fi frequency bands are supported.
  - Recommended: Commissioning close to the main router.
1. Apply mains voltage and wait for the signal tone.
  2. Wait 15 seconds until all modules have started.
  3. Open the Apple Home app.
  4. In the upper right corner press the '+' symbol and select 'Add device'.
  5. Scan the Apple Home QR code. It can be found on the back of the device and on the QR code card in the packaging.
  6. The Apple Home app will guide you through the remaining steps.

## Important!

After a successful connection, an update is automatically searched for, installed and the device restarts.

## Factory reset:

3 short and 3 long beeps will beep to confirm the reset:

### Option 1:

Via the Eltako Connect app.

### Option 2:

1. Apply supply voltage (time window of 5 minutes begins)
2. Connected switch/button: press **8x briefly (<1 sec.) and 1x long (>1.5 sec. and <5 sec.)**. A signal tone sounds for the last two short closing actions.

! Outside of the time window, the device is simply restarted !

### Option 3:

1. The device is disconnected from the supply voltage.

2. Apply supply voltage, wait for the **signal tone** and disconnect the supply voltage within **5 seconds**.
3. Repeat **step 2** a total of **5 times**.
4. The **sixth time** the supply voltage is **switched on**, the successful factory reset is confirmed by **3 short and 3 long beeps**.

## Over-the-Air (OTA) Firmware Updates:

- If the device is connected to the Internet, it will immediately search for possible updates. Updates are then requested cyclically every 12 hours.
- Data transfer between the Eltako update server and the device meets the highest security standards.
- Before an update is installed, it is checked whether it is correctly encrypted, validated and undamaged.
- Updates are downloaded and installed, but only activated when no important process is running and no load is switched. The restart required for this takes a few seconds and goes unnoticed.
- If an update fails or leads to device instability, the system automatically switches back to the previous firmware version and waits for a new update.

## Offline firmware updates:

The device supports offline firmware updates via REST API. More information on this on the product website.

Technical data

Dimmable 230 V LED lamps	Trailing edge up to 300 W <sup>5)</sup>  Leading edge up to 100 W <sup>5)</sup>
Incandescent and halogen lamps <sup>1)</sup> 230 V (R)	up to 300 W
Inductive transformers (L)	up to 300 W <sup>2)3)</sup>
Electronic transformers (C)	up to 300 W <sup>2)3)</sup>
Dimmable energy saving lamps ESL	up to 300 W <sup>5)</sup>
Max./min. temperature at mounting location	+50°C/-20°C <sup>4)</sup>
Standby loss (activ power)	0.7 W

<sup>1)</sup> Applies to lamps of max. 150 W.

<sup>2)</sup> Per dimmer it is only allowed to use max. 2 inductive (wound) transformers of the same type, **furthermore no-load operation on the secondary part is not permitted. The dimmer might be destroyed.** Therefore do not permit load breaking on the secondary part. Operation in parallel of inductive (wound) and capacitive (electronic) transformers is not permitted!

<sup>3)</sup> **When calculating the load a loss of 20% for inductive (wound) transformers and a loss of 5% for capacitive (electronic) transformers must be considered in addition to the lamp load.**

<sup>4)</sup> Affects the max. switching capacity.

<sup>5)</sup> Usually applies for dimmable energy saving lamps and dimmable 230 V LED lamps. Due to differences in the lamps electronics, there may be limited dimming range, switch on and off problems dependent on the manufacturer and a restriction on the maximum number of lamps; especially if the connected load is very low (for 5W-LEDs).

Manuals and documents in further languages



[http://eltako.com/redirect/EUD62NPN-IP\\*110-240V](http://eltako.com/redirect/EUD62NPN-IP*110-240V)



To control this HomeKit-enabled accessory, the latest version of iOS or iPadOS is recommended.

Use of the Works with Apple badge means that an accessory has been designed to work specifically with the technology identified in the badge and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Apple, Apple Home, and HomeKit are trademarks of Apple Inc., registered in the U.S. and other countries and regions.



Frequency	2.4 GHz
Transmit power	max. 100 mW

Hereby, Eltako GmbH declares that the radio equipment type EUD62NPN-IP/110-240V is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity can be accessed via the QR code or the internet address under 'Documents'.

Must be kept for later use!

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5/1/2022 Subject to change without notice.