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Universal dimming actuator IP, Matter certified EUD64NPN-IPM



{REST:API}



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%.

ELTAKO Connect-App download:



<https://eltako.com/redirect/eltako-connect>

Universal dimming actuator IP via Wi-Fi. Matter-certified, REST-API. With power MOSFET. Operation with dimmable 230 V LED lamps in trailing edge (up to 300 W) or leading edge (up to 100 W) operating modes, depending on the ventilation conditions. The actuator has no minimum load. The standby loss is only 0.7 watts.

For installation. 46 x 45 mm, 20 mm deep.

The connection terminals are screw terminals for conductor cross-sections up to 2.5 mm².

The switching function with soft-on and soft-off increases the service life of the connected lamps.

Supply voltage, switching voltage and control voltage local 110-240 V 50/60 Hz.

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.

Two control inputs for additional mains voltage pushbuttons.

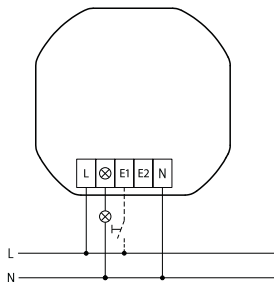
Glow lamp current is not permitted.

This actuator is Matter certified and can therefore be taught-in into different ecosystems and operated in parallel.

The current setting options can be viewed via the demo mode of the ELTAKO Connect-App.

The range of functions can be expanded using adapters, e.g. E0A64 (EnOcean radio). Further information on this can be found on the product page of the respective adapter.

Typical connection



General information on commissioning:

- Only 2.4 GHz Wi-Fi frequency bands are supported.
- Recommended: Commissioning close to the main router.

First setup with Apple Home:

1. Apply mains voltage and wait for the signal tone.
2. Wait 15 seconds until the device has started.
3. Open the Apple Home app.
4. In the upper right corner press the '+' symbol and select 'Add device'.
5. Scan the Matter QR code. Can be found on the back of the device or on the QR code card in the packaging.

6. The Apple Home app will guide you through the remaining steps.

First set up with Google Home:

1. Apply mains voltage and wait for the signal tone.
2. Wait 15 seconds until the device has started.
3. Download and open the Google Home app.
4. Click on 'Devices' at the bottom of the screen.
5. Press '+ Add' in the bottom right corner.
6. Now click on 'New device'.
7. The Apple Home app will guide you through the remaining steps.

First setup with Amazon Alexa:

1. Apply mains voltage and wait for the signal tone.
2. Wait 15 seconds until the device has started.
3. Download and open the Amazon Alexa app.
4. Click on 'Devices' at the bottom of the screen.
5. In the bottom right corner press the '+' symbol and select 'Add Device'.
6. Click on your automatically recognised ELTAKO device.
7. The Amazon Alexa app will guide you through the remaining steps.

Important!

If an update is available and the device is idle, the installation will occur immediately, followed by a device restart.

Factory reset:

To confirm the reset, a signal tone **sounds 3 times short and 3 times long:**

Option 1:

Using the ELTAKO Connect app.

Option 2:

Connected switch/pushbutton.

1. Apply the supply voltage (time window of 5 minutes begins) press 8 times short (<1 sec.) and 1 time long (>1.5 sec. and <5 sec.).
2. A signal tone sounds for each of the last two short presses.
3. The reset is confirmed after 15 seconds.

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

Option 3:

Disconnect the mains voltage.

1. Disconnect the device from the mains voltage.

- Apply the mains voltage, wait for the signal tone and disconnect the voltage within 5 seconds.
- Repeat the process 5 times.
- When switched on for the 6th time, the successful reset is confirmed by 3 short and 3 long signal tones.

Over-the-Air (OTA) firmware updates:

- If the device is connected to the Internet, updates are automatically requested and installed **every 12 hours**, provided that no active loads are switched on.
- The data transfer between the **ELTAKO update server** and the device complies with the highest security standards.
- Before installation, the firmware is checked for **correctness and integrity**.
- ATTENTION:** Automatic updates are carried out as long as no important processes are active and no load is switched on. The device is then restarted.
- 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 also supports **offline firmware updates** via the **REST API**. More information available on the product website.

Technical data

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

¹⁾ Applies to lamps of max. 150 W.

²⁾ 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!

³⁾ **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.**

⁴⁾ Affects the max. switching capacity.

⁵⁾ 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 5 W-LEDs).

Manuals and documents in further languages:



<https://eltako.com/redirect/EUD64NPN-IPM>



Frequency	2,4 GHz
Transmit power	max. 100 mW

Hereby, Eltako GmbH declares that the radio equipment type EUD64NPN-IPM 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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