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iluminize 500.201

iluminize Dimm-Aktor 500.201 230V Dimmer Actuator User Manual

Model: 500.201

Brand: iluminize

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your iluminize Dimm-Aktor 500.201. This compact dimmer actuator is designed to control 230V dimmable lights, offering flexible control options via radio frequency (RF) remote controls, a WiFi Bridge for smartphone integration, or traditional push-button switches. Please read this manual thoroughly before installation and use to ensure safe and correct operation.

SAFETY INFORMATION

WARNING: Installation of this device involves high voltage (230V). To prevent electric shock or damage to the device, installation must be performed by a qualified electrician in accordance with local electrical codes and regulations.

- Always disconnect power at the main circuit breaker before performing any installation or maintenance.
- This device is designed for indoor use only. Do not expose it to moisture or extreme temperatures.
- Ensure that the total load of connected lamps does not exceed the maximum rated power of 400W.
- Use only with dimmable lamps and luminaires.

PRODUCT OVERVIEW

The iluminize Dimm-Aktor 500.201 is a compact dimmer actuator designed for seamless integration into existing electrical systems. Its small form factor allows it to be installed discreetly behind standard wall switches or in ceiling fixtures.



Front view of the iluminize Dimm-Aktor 500.201, showing connection terminals for L (Live), N (Neutral), and output to the lamp, along with 'Min.Set' and 'Learning Key' buttons. Input voltage range is AC 100-240V, max 400W.



Side view of the iluminize Dimm-Aktor 500.201, highlighting its compact design suitable for installation in switch boxes.

The Dimm-Aktor is compatible with various iluminize remote controls and the iluminize WiFi Bridge, allowing for versatile control options.

iluminize Dimm-Aktor 500.201 (ASIN: B01L5XIWMU)
 ist **ausschließlich** mit folgenden* Hand-Fernbedienungen
 Wand-Dimmern, Desk-Dimmern für weiße LEDs
 und der WiFi-Brige von **iluminize kompatibel**



* mehr Auswahl in unserem iluminize LED-Onlineshop

Diagram illustrating the iluminize Dimm-Aktor 500.201's compatibility with various iluminize remote controls, wall dimmers, and the WiFi Bridge for smartphone control.

SETUP AND INSTALLATION

As previously stated, installation must be carried out by a qualified electrician. Ensure power is disconnected before proceeding.

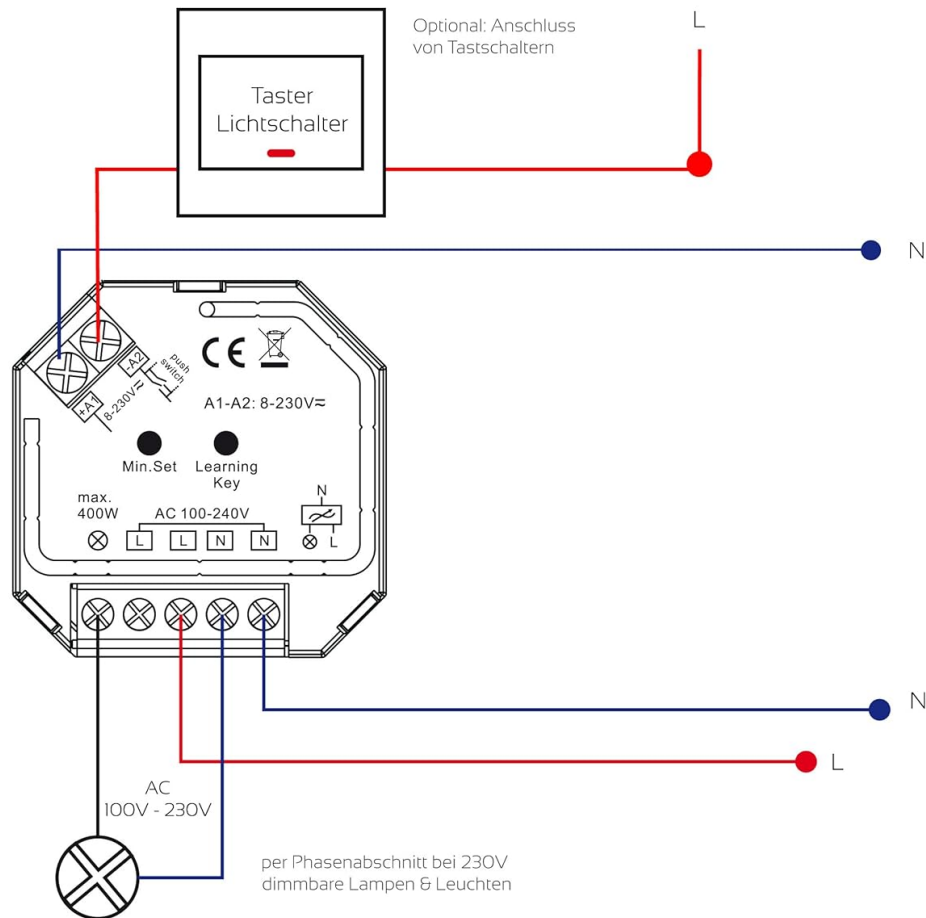
Wiring Diagram

Follow the wiring diagram below for correct connection of the Dimm-Aktor to your electrical system and lighting fixture. The device requires both Live (L) and Neutral (N) connections.

1.

Leuchtmittel mit dem Dimm-Aktor verbinden und an das Stromnetz anschließen

Dimm-Aktor
und Fernbedienung
koppeln



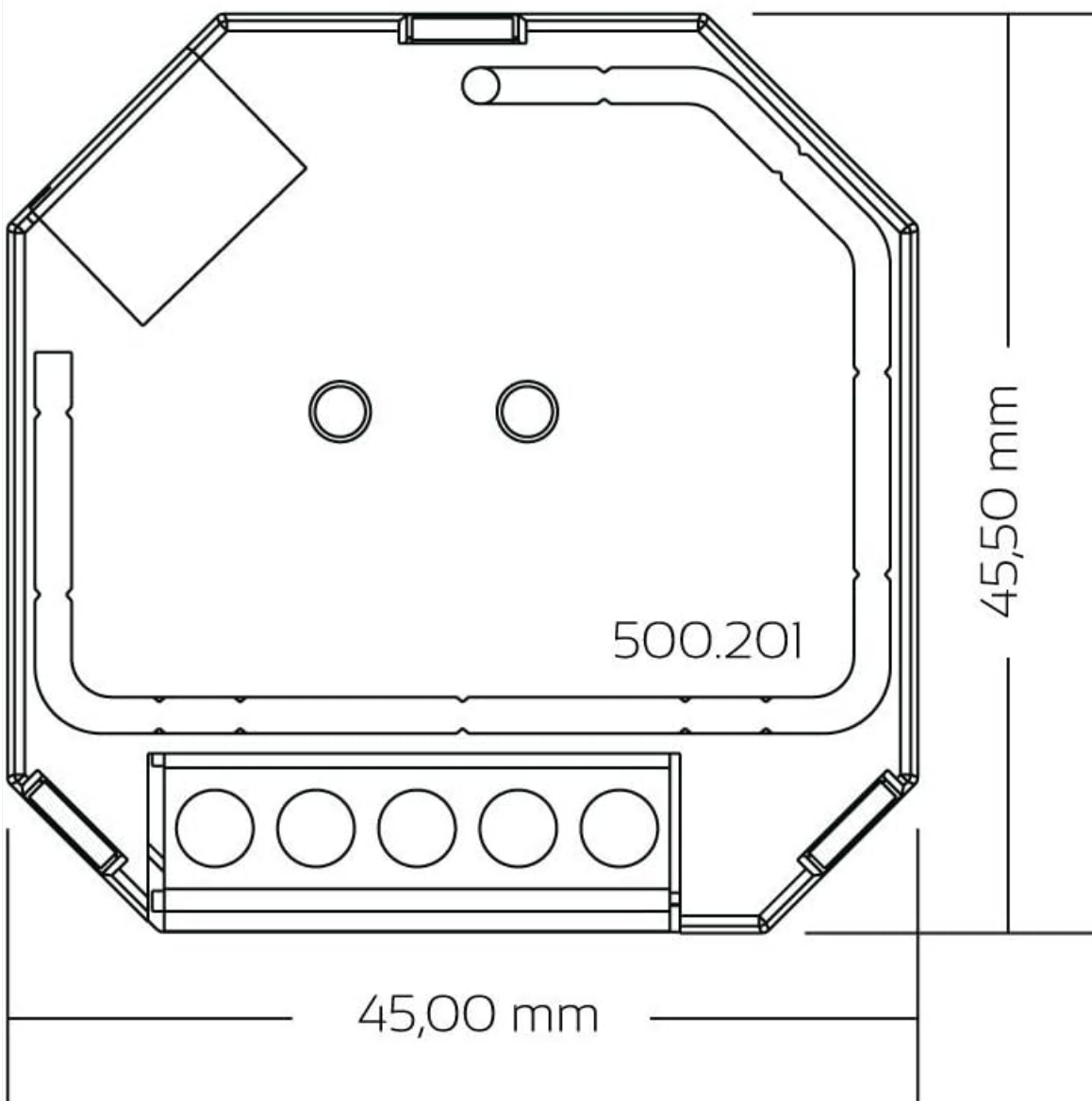
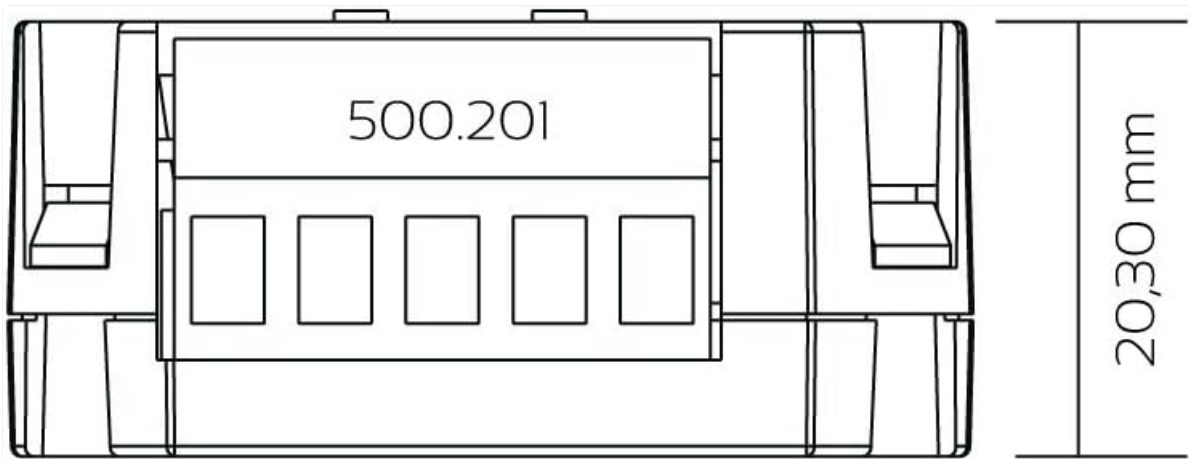
Kopplungsvorgang exemplarisch für 530.140 (ASIN: B01BBIZDQ2)

Detailed wiring diagram for the iluminize Dimm-Aktor 500.201, showing connections for Live (L), Neutral (N), and the dimmable lamp. It also illustrates an optional connection for a push-button switch (Taster Lichtschalter) for local control.

1. **Power Disconnection:** Turn off the main power supply at the circuit breaker before starting any wiring.
2. **Connect Lamp:** Connect the dimmable lamp or luminaire to the output terminals of the Dimm-Aktor (marked with a lamp symbol and 'L').
3. **Connect Power Input:** Connect the main Live (L) and Neutral (N) wires from your electrical supply to the corresponding input terminals on the Dimm-Aktor (marked 'L' and 'N' under 'AC 100-240V INPUT').
4. **Optional Push-Button Switch:** For local control, connect a push-button switch to terminals A1 and A2. The voltage range for this connection is 8-230V.
5. **Secure Connections:** Ensure all wire connections are secure and properly insulated.
6. **Restore Power:** Once all connections are verified, restore power at the circuit breaker.

Physical Installation

The compact dimensions of the Dimm-Aktor (45 mm x 45 mm x 21 mm) allow it to be installed in standard deep switch boxes (minimum 60mm depth recommended) or within ceiling voids. Ensure adequate ventilation and avoid enclosing the device in excessively tight spaces.



Technical drawing showing the precise dimensions of the iluminize Dimm-Aktor 500.201: 45.50 mm x 45.00 mm x 20.30 mm, indicating its compact size for installation.

OPERATING INSTRUCTIONS

Pairing with a Remote Control

To link your Dimm-Aktor with an iluminize remote control, follow these steps:

1. **Power On:** Ensure the Dimm-Aktor is connected to power and the connected lamp is illuminated (approximately 75% brightness).
2. **Activate Remote:** If necessary, power on your iluminize remote control.

Dimm-Aktor
und Fernbedienung
koppeln

2.

Hand-Fernbedienung einschalten



2. Statusindikator
leuchtet rot

1. Fernbedienung
einschalten

Kopplungsvorgang exemplarisch für 530.140 (ASIN: B01BBIZDQ2)

Illustration showing how to power on the remote control by pressing the power button, indicated by a red status indicator.

3. **Select Zone (if applicable):** On multi-zone remotes, select the desired zone (1-6) you wish to pair with the Dimm-Aktor.

3.

Mit einer Fernbedienung verbinden (koppeln)

Dimm-Aktor
und Fernbedienung
koppeln

Zum Koppeln **Learning Key** auf dem Dimm-Aktor **kurz** drücken. Der Dimm-Aktor ist dann für 15 Sekunden im Lernmodus. In dieser Zeit die folgenden Schritte durchführen.

Nur bei Mehrzonen-Fernbedienungen oder Touch-Wand-Dimmern: Zonentaste der Zone (Gruppe) betätigen, mit der die Lampe bedient werden soll.

Mit Helligkeitsrad, Helligkeitsstreifen, Dimm-Knopf, Dimm-Tasten kurz schalten oder dimmen. Die angeschlossenen Lampen blinken zur Bestätigung.

Weiterführende Infos findest Du in der Anleitung zur Fernbedienung.

Zum Löschen / Reset aller Kopplungen **Learning Key** auf dem Dimm-Aktor so **lange** drücken, bis die angeschlossenen Lampen blinken.



Kopplungsvorgang exemplarisch für 530.140 (ASIN: B01BB1ZDQ2)

Image demonstrating how to select a zone (e.g., zone 2) on a multi-zone remote control for pairing with the Dimm-Aktor.

- 4. Initiate Pairing:** Briefly press the 'Learning Key' button on the Dimm-Aktor. The Dimm-Aktor will enter pairing mode for 15 seconds.

4.

Zone durch drücken wählen



5.

Über das Helligkeitsrad fahren zur Bestätigung der Zone



Kopplungsvorgang war erfolgreich, wenn das angeschlossene Leuchtmittel blinkt

Kopplungsvorgang exemplarisch für 530.140 (ASIN: B01BBIZDQ2)

Visual guide showing a finger pressing the 'Learning Key' button on the iluminize Dimm-Aktor 500.201 to initiate the pairing process with a remote control.

5. **Confirm Pairing:** Within the 15-second pairing window, use the remote control to perform a dimming or on/off action. The connected lamp will flash briefly to confirm successful pairing.

Setting Minimum Brightness

To prevent flickering at very low dimming levels, you can set a minimum brightness for your connected lamps:

1. **Dim Down:** Using your paired remote control, dim the lights down until the connected lamp begins to flicker.
2. **Adjust Up:** Slowly dim the lights slightly brighter until the flickering stops.
3. **Set Minimum:** Briefly press the 'Min.Set' button on the Dimm-Aktor. The connected lamp will flash to confirm the new minimum brightness setting.

Minimale Helligkeit einstellen

Zum Einstellen der minimalen Helligkeit (*vermeiden von Flackern durch Begrenzung des Dimmbereiches nach unten*) mit der Fernbedienung so lange herunter dimmen, bis die angeschlossenen Lampen zu flackern beginnen.

Danach etwas heller dimmen, bis das Flackern aufhört. Abschließend **kurz** auf die Taste **Min.Set** auf dem Dimm-Aktor drücken

Die angeschlossenen Lampen blinken zur Bestätigung.



Löschen der minimalen Helligkeit

Zum Löschen der minimalen Helligkeit mit der Fernbedienung die Helligkeit auf 100% Stellen und die Taste **Min.Set** auf dem Dimm-Aktor so **lange** drücken, bis die angeschlossenen Lampen zur Bestätigung blinken

Diagram illustrating the process of setting the minimum brightness on the iluminize Dimm-Aktor 500.201 by pressing the 'Min.Set' button after adjusting the light level with a remote to prevent flickering.

Resetting Pairing and Minimum Brightness

To clear all paired remote controls and reset the minimum brightness setting to default, press and hold the 'Learning Key' button on the Dimm-Aktor for several seconds until the connected lamps flash. This indicates a successful reset.

MAINTENANCE

The iluminize Dimm-Aktor 500.201 requires minimal maintenance. Ensure the device remains free from dust and debris. Clean the exterior with a dry, soft cloth. Do not use liquid cleaners or abrasive materials. There are no user-serviceable parts inside the device. Any repairs should be conducted by qualified personnel only.

TROUBLESHOOTING

- **Lamp not responding (no on/off or dimming):**
 - Check all wiring connections for proper installation and security.
 - Verify that the main power supply is active.
 - Ensure the remote control has working batteries and is within range.

- Re-attempt the pairing process between the Dimm-Aktor and the remote control.
- **Lamp flickers at low brightness:**
 - Adjust the minimum brightness setting as described in the 'Setting Minimum Brightness' section.
 - Ensure the connected lamp is explicitly rated as dimmable.
- **Remote control not responding:**
 - Check the remote control's battery and replace if necessary.
 - Ensure the remote is paired correctly with the Dimm-Aktor. If unsure, perform the pairing process again.
- **Device completely unresponsive:**
 - Turn off power to the Dimm-Aktor at the circuit breaker for a few minutes, then restore power (power cycle).
 - If the issue persists, contact a qualified electrician for inspection. Do not attempt to open or repair the device yourself.

SPECIFICATIONS

Brand	iluminize
Model Number	500.201
Dimensions (L x W x H)	4.5 x 4.5 x 2.1 cm
Weight	40 g
Input Voltage	AC 100-240 Volts
Max. Output Power	400 Watts
Control Type	Radio (RF), WiFi (with optional Bridge), Push-button
Dimming Technology	Phase-cut dimming
Material	Plastic
Installation Type	Wall mount (behind switch)
Usage Environment	Indoor only
Special Features	Dimmability, remote control compatibility, multi-zone control, adjustable minimum brightness

WARRANTY AND SUPPORT

For warranty information, technical support, or further inquiries regarding your iluminize Dimm-Aktor 500.201, please contact iluminize customer service directly or visit their official website. Keep your proof of purchase for warranty claims.

Official Website: [iluminize.com](https://www.iluminize.com)

