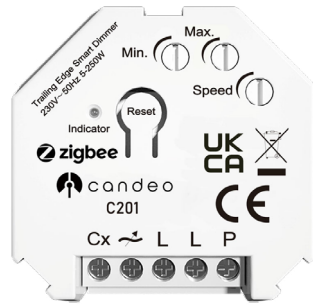




The Candee C201 module is a Zigbee dimmer for dimmable LED lamps.

The minimum and maximum brightness settings of the dimmer can be adjusted to achieve the optimum dimming range for a particular load, as can the speed of dimming when using a retractive switch.



C201

Specifications

Input Voltage	220V-240V ~ 50Hz
Power Load	10-250VA LED 10-250W Halogen
Minimum Load per lamp	5W
Dimmer Mode	Trailing Edge
Control Method	Smart control / multi-way switching

- Do not dispose of with household waste
- Do not expose the product to moisture or liquids
- Do not attempt to open the product to examine or repair.
- This product is designed for indoor use only.

Features

- Zigbee AC phase cut dimmer based on latest Zigbee 3.0 protocol
- 220V-240V AC Input and Output Voltage
- Supports resistive loads and capacitive loads
- Trailing edge control
- Enables ON/OFF control and dimming of connected triac dimmable led lights or led drivers
- Zigbee end device that supports Touchlink commissioning
- Can directly pair to a compatible Zigbee remote via Touchlink without coordinator
- Supports self-forming Zigbee network without coordinator and add other devices to the network
- Supports find and bind mode to bind a Zigbee remote
- No neutral required
- Radio Frequency: 2.4GHz
- Waterproof grade: IP20

Safety Warnings and notes

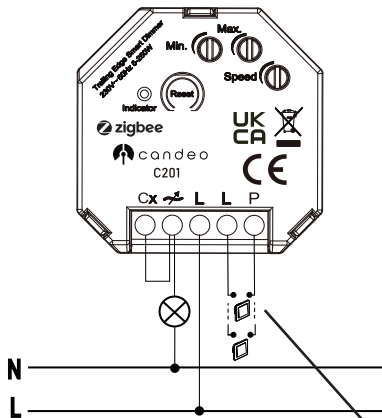
- Turn Off Mains Power before installing the device
- Certain light sources may not behave according to the power rating when used with a dimmer. An overload will result in the safety features switching the dimmer off. We recommend only using this dimmer within the suggested load, and with high quality dimmable bulbs.
- Please ensure that your bulbs or lamps are minimum 5W and the total load is minimum 10W. Results may vary with low quality bulbs or lamps, and with a low power load you may need to fit a bypass on the first lamp in the circuit.

Please read all of the instructions prior to installation

Installation

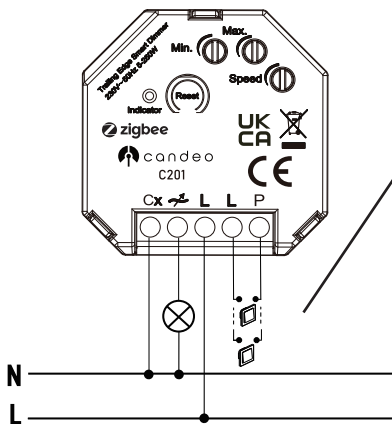
1. Turn off the power.
 - i. To avoid electrical shock and/or equipment damage, disconnect electrical power at the main fuse or circuit breaker before installation and maintenance.
 - ii. Be aware that even if the circuit breaker is off, some voltage may remain in the wires — before proceeding with the installation, be sure no voltage is present in the wiring.
2. Connect the device according to the diagrams shown below for either a 1-wire (without neutral) or 2-wire (with neutral) system.

One-wire configuration



Caution: If in any doubt about how to install the module, please consult a qualified electrician.

Two-wire configuration



- Single switch, Two-way and Multiway switching can be achieved using push/retractive switches. (Please note that toggle (on/off) switches are not supported.)
- Once connected with a push switch, press the switch once to switch ON/OFF, and press and hold it to increase or decrease the brightness level.

3. After successfully wiring the switch, turn the power back on.

Zigbee configuration

1. Factory Reset the switch.
 - i. Press and hold the “Reset” button for 5 seconds.
 - ii. Once reset successfully, the LED will glow red to indicate that the reset has been successful.

Note: All configuration parameters will be reset after the device is reset or removed from the network.

2. Initiate pairing mode to pair to a Zigbee hub or bridge such as Smartthings or Philips Hue. (Adding to your Zigbee Network)
 - i. From your smart home controller app, choose to add a lighting device and enter Pairing Mode as instructed by the app or Hub’s documentation, or scan for a new device.
 - ii. Double press the “Reset” button on the module to start pairing mode.
 - iii. The LED indicator will blink blue to indicate that the device is in pairing mode. Pairing mode lasts for 15 minutes before timing out. If pairing is unsuccessful during this time, repeat the process.
 - iv. When successfully paired the LED will stop blinking, and then stay on for 10 seconds. The device can now be controlled through your controller or hub interface.

Dimming settings: minimum, maximum, and speed

1. Use a small screwdriver to turn the minimum, maximum, and speed switches to your desired level.
 - i. The speed setting relates to the speed of dimming up and dimming down when using a retractive switch.

Troubleshooting

If your lights will not turn completely off, or they are flickering at low levels:

Diagnosing this issue can be complicated and often dependent on many variables that are unique to the wiring in your house.

However, the most common cause is due to either the total load of the lights being too low, or the wattage of one particular bulb being too low. Please ensure that each lamp is minimum 5W although 10W+ will give better results. Please also ensure that the total load is minimum 10W.

If the problem persists, please try increasing the minimum brightness setting of the switch by following the steps above.

If increasing the minimum brightness did not solve the problem, we suggest either increasing the load on the circuit by using higher power lamps, or by fitting an LED bypass over the first lamp in the circuit.

Advanced Zigbee configuration

1. TouchLink to a Zigbee Remote

- i. Turn on the light, press the "Reset" button 4 times.
- ii. The indicator will blink green to show that the device is in TouchLink commissioning mode. This times out after 3 minutes, after which repeat this step if necessary.
- iii. Bring the remote or touch panel within 10cm of the switch.
- iv. Set the remote or touch panel into TouchLink commissioning mode, by following the instructions in the corresponding remote or touch panel manual.
- v. Once connected, the light will blink and then stay on, and you can control your lights remotely.

Notes:

- Using directly via Touchlink (with neither device added to a Zigbee network), each device can link with 1 remote.
- Using Touchlink when both devices are added to a Zigbee network, each device can link with max. 30 remotes.
- After Touchlink pairing, the device can be controlled by the linked remotes.

2. Find and Bind Mode

Note: Make sure the device and remote are already added to the same Zigbee network.

- i. Turn on the light, press the "Reset" button 5 times.
- ii. The indicator will blink yellow to show that the device is in Find and Bind Mode. This times out after 3 minutes, after which repeat this step if necessary.
- iii. Set the remote or touch panel (target node) into find and bind mode, and enable it to find and bind initiator. Please refer to the corresponding remote or touch panel manual.
- iv. There should now be an indication on the remote or touch panel that it has binded to the device successfully and can now control it.



For further support please go to www.candeo.io

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