



9331 – Smart Wi-Fi Dimmer for RGBW LED Strips

1- Safety Instructions

Warning: Failure to follow the safety instructions below could result in fire, electric shock, other injury or damage to the Smart Dimmer or other property. Read all safety instructions below before using the Smart Dimmer.

- Avoid high humidity or extreme temperatures;
- Avoid prolonged exposure to sunlight or strong UV light;
- Do not drop or subject the unit to strong vibrations;
- Do not disassemble or attempt to repair the unit;
- Disconnect the power supply to your home when installing this product;
- Do not bring into contact with flammable liquids, gases and other explosive substances.

2 – Welcome

Introducing your Smart Wi-Fi Actuator.

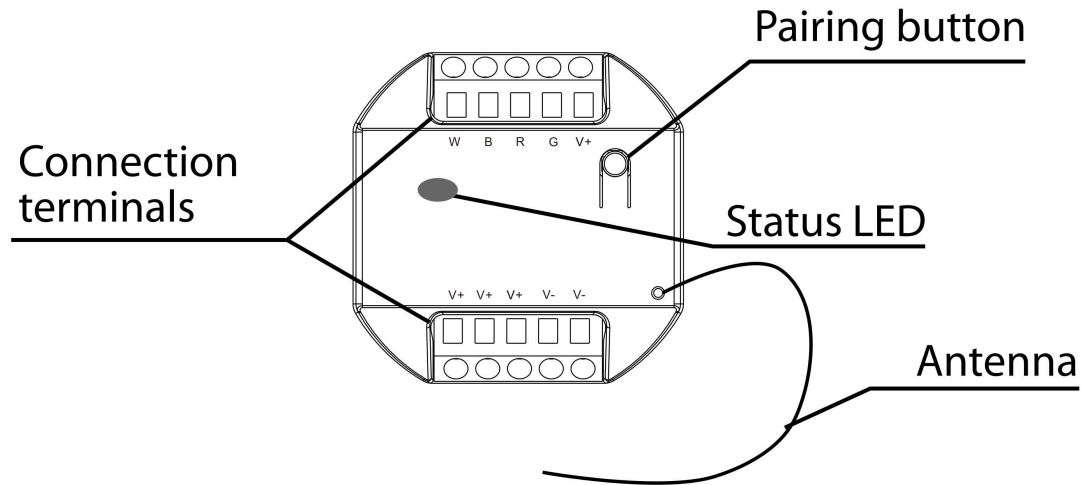
This actuator is powered by 12 or 24V, like your RGB or RGBW LED strip and allows you to manage its switching on, off and dimming in four different ways:

1. It allows you to connect with Amazon Alexa and Google Home voice assistants;
2. It can be controlled from your smartphone via the Smart Life app;
3. It can be combined with one or more FEB Easy piezoelectric buttons;
4. It is possible to switch the strip on and off by pressing the button on the actuator itself.

In this guide you will find an overview of the product and instructions for installation and start-up.

3 – A detailed look at your device

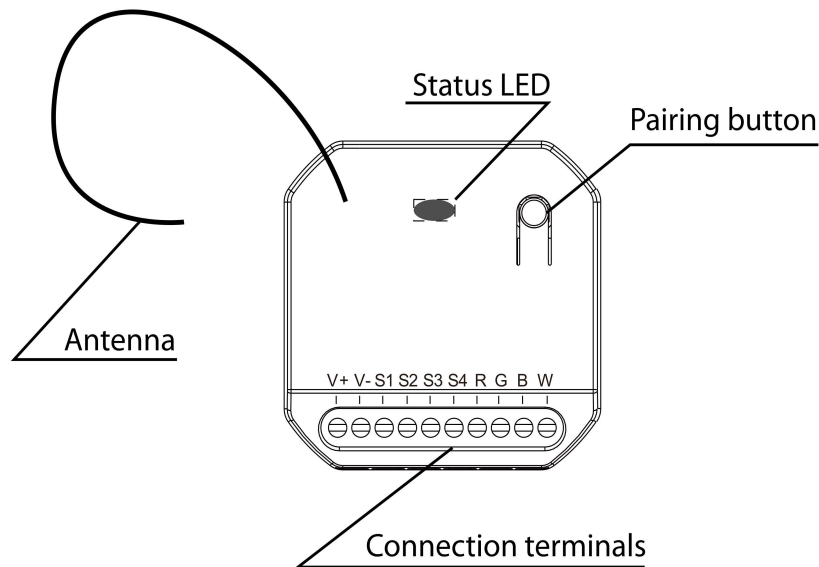
Version November 2024



Your Smart Wi-Fi Dimmer 9331

- **Connection terminals:** these are the terminals to which you connect the power supply, the RGBW channels of the LED strip to be controlled and, if desired, also a traditional button per channel. From left to right, the sequence of terminals is:
 - V+/V-: Positive and negative power supply;
 - RGBW: negative for each of the RGBW channels of the strip.
- **Pairing button:** this button has several functions. It is used to start the connection procedure to your home Wi-Fi network, to start pairing with the FEB Easy wireless buttons and to reset the device to factory settings. You can also control the actuator directly by pressing this button to turn the load on and off.
- **LED indicator:** this LED provides feedback on the status of the device. In normal operation, the LED indicates the status of the load: on when it is on and off when it is off. When the product starts, the LED flashes quickly, to indicate that the actuator is not yet connected to a Wi-Fi network.
- **Antenna:** this is the antenna used to receive radio signals from the FEB Easy wireless buttons.

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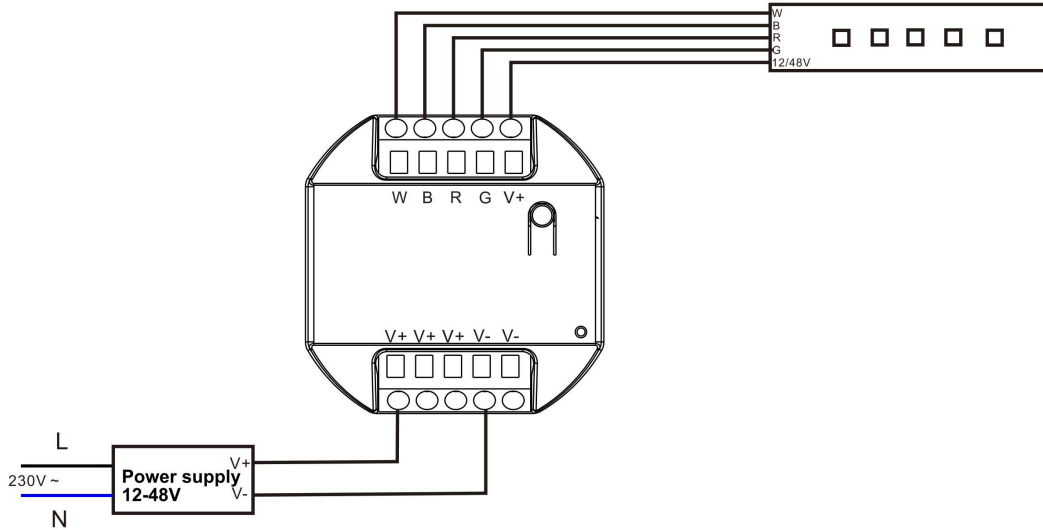


Your Smart Wi-Fi Dimmer 9331

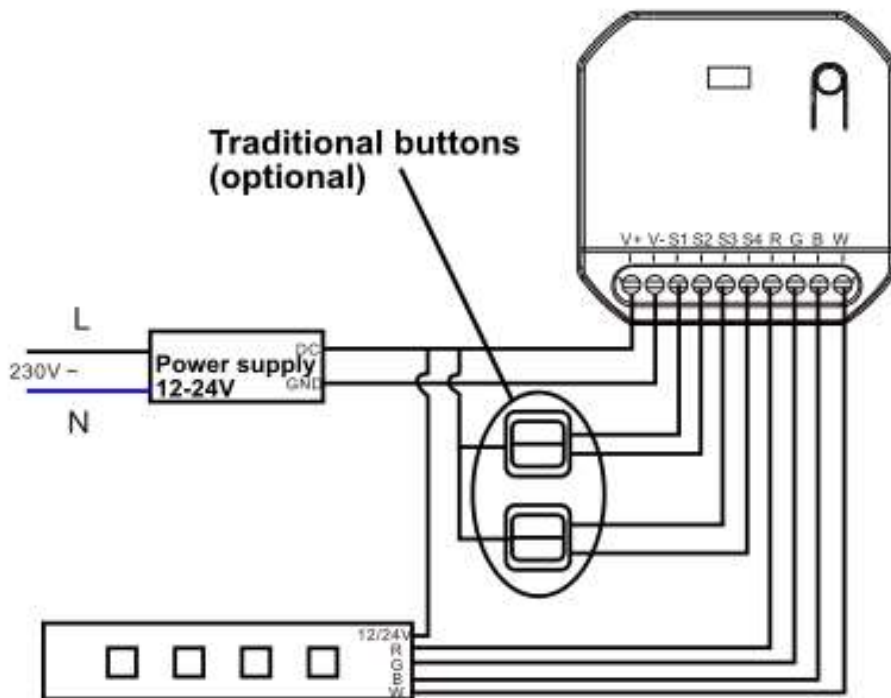
- **Connection terminals:** these are the terminals to which you connect the power supply, the RGBW channels of the LED strip to be controlled and, if desired, also a traditional button for each channel. From left to right, the sequence of terminals is:
 - V+/V-: positive and negative power supply;
 - S1/S2/S3/S4: traditional buttons for the RGBW channels respectively;
 - RGBW: negative for each of the RGBW channels of the strip.
- **Pairing button:** this button performs several functions. It is used to start the connection procedure to your home Wi-Fi network, to start pairing with the FEB Easy wireless buttons and to restore the device to factory settings. You can also directly control the actuator by pressing this button to turn the load on and off.
- **LED indicator:** this LED provides feedback on the status of the device. In normal operation, the LED indicates the load status: on when it is on and off when it is off. When the product is started, the LED flashes quickly, to indicate that the actuator is not yet connected to a Wi-Fi network.
- **Antenna:** this is the antenna used to receive radio signals from the FEB Easy wireless buttons.

4 - Start-up

- In the image below you will find the connection diagram for this module. **Important:** always remember to disconnect the home power supply when installing this product.



The connection diagram of the 9331 – Version from November 2024



The connection diagram of the 9331 – Version prior to November 2024

- The 9331 module offers maximum functionality when controlled via an app. To connect the 9331 actuator to your home Wi-Fi network, download the Smart Life app from the Google Play Store, or the Apple App Store. Tap the + sign in the top right corner and select "Add

manually". Scroll down the page until you find the "Dimmer Switch" product and select it. Now start the connection, verify that the network name and password are correct and that there is a 2.4GHz network. The app will ask you to verify that the LED indicator is flashing quickly and once you have confirmed it, the addition to the network will begin. The process takes about 2 minutes, at the end of which you will see your new module successfully added to the app. You can now change the name and start controlling it from your smartphone. In the app options you can create scenarios, pairings with other devices, time schedules and pair the actuator with Amazon Alexa, Google Home, with the IFTTT platform and several other IoT service providers.

- To pair the 9331 dimmer with a piezoelectric button, simply press the pairing button for about 3 seconds, until the LED indicator starts flashing, then press the button you want to pair. Simply press the button once. You will see that the LED will stop flashing, indicating that the two have been paired. It is possible to connect more than one button to the same actuator, up to a maximum of 10 buttons. There are no limits, however, to the number of actuators that can be controlled by the same button, simply repeat the pairing procedure between the button and all the actuators that you want to be controlled by the same button.
- If the LED is not flashing quickly, you can press the pairing button for about 10 seconds: the LED will flash slowly, then quickly and finally remain permanently lit, then release the pairing button. The device will be ready to proceed with pairing to a Wi-Fi network as described in the previous point.
- To connect the actuator to voice assistants, you must activate the Smart Life skills on Google Home or Alexa, directly from the relevant apps. At this point you can proceed with the discovery of the devices available for connection and start controlling your 9331 with voice commands or from the Google Home or Amazon Alexa apps.
- To reset a connection between the actuator and the button, press the pairing button for about 12 seconds, at which point the LED indicator will start to flash, remain on briefly and then turn off. When this sequence is completed, the actuator and the button will be disconnected.
- If you change your Wi-Fi password or if you change the router, repeat the process described above for connecting to a Wi-Fi network, including resetting the Wi-Fi settings in the case of a LED that is not flashing rapidly.

5 – Operation combined with a FEB Easy button

- When using the 9331 in combination with a FEB Easy button, you can adjust the intensity of the dimmed light by long-pressing the button. If you keep the button pressed, the brightness will increase from 0 to 100% and then decrease in the opposite direction. Release the button when the light has the desired intensity.
- If you long-press the button, the dimmer will perform up to 2 complete 0-100% brightness cycles and then stop at the maximum intensity value.
- If you long-press the button, release it for less than a second and long-press it again, the direction of the 0-100% brightness cycle will reverse.

6 – Technical features

Version from November 2024

Operating voltage: 12/48 VDC

Maximum current: 3A per channel, 12A in total between all channels

Maximum power: 12V – 144W between all channels
24V – 288W between all channels

Wireless network: Wi-Fi IEEE 802.11 b/g/n 2.4G & RF 433MHz

Operating distance: Indoor <= 25m / Outdoor <= 60 m

Operating temperature: -5 - 50°C

Dimensions: 52 x 52 x 23 mm

Version before November 2024

Operating voltage: 12/24 VDC

Maximum current: 3A per channel, 12A in total between all channels

Maximum power: 12V – 144W between all channels
24V – 288W between all channels

Wireless Network: IEEE 802.11 b/g/n 2.4G & RF 433MHz Wi-Fi Network

Operating Distance: Indoor <= 25m / Outdoor <= 60 m

Operating Temperature: -5 - 50°C

Dimensions: 44 x 44 x 22 mm

7 – Troubleshooting

- The module does not connect to Wi-Fi:
 - Check the LED flashing, as indicated in the Startup section;
 - Check that your router is set to use 2.4GHz Wi-Fi;
 - Check that your phone is connected to 2.4GHz Wi-Fi;
 - Keep your phone, router and 9331 module close to each other during the connection.
- The module sometimes appears offline in the app:
 - It could be due to the router: different router models allow different numbers of Wi-Fi devices to be connected at the same time. Check that your router has not reached the maximum number of devices connected at the same time.