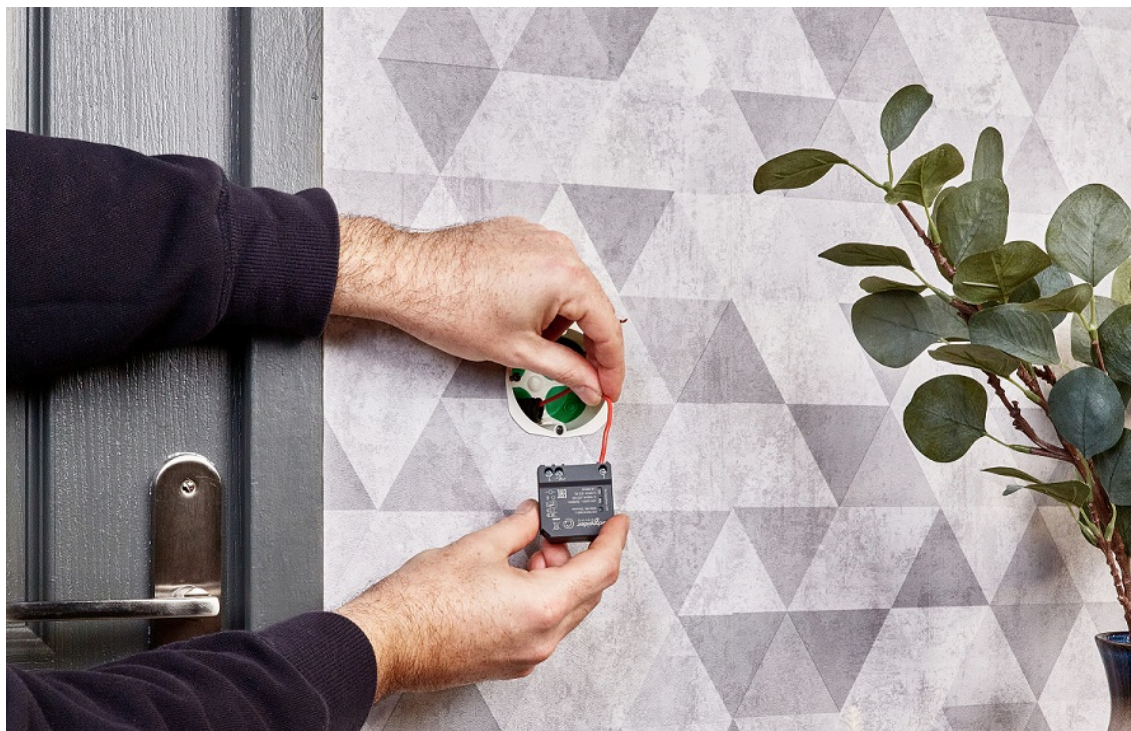


Wiser Micro Module Dimmer

Device user guide

Information about features and functionality of the device.

03/2025



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Safety Information

Important Information

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of either symbol to a “Danger” or “Warning” safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that accompany this symbol to avoid possible injury or death.

DANGER

DANGER indicates a hazardous situation which, if not avoided, **will result in** death or serious injury.

Failure to follow these instructions will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

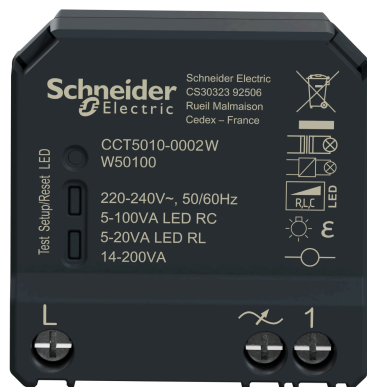
CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result in** minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to physical injury.

Wiser Micro Module Dimmer



CCT5010-0002W
CCT5010-0002

For your safety

⚠️⚠️ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Safe electrical installation must be carried out only by skilled professionals. Skilled professionals must prove profound knowledge in the following areas:

- Connecting to installation networks.
- Connecting several electrical devices.
- Laying electric cables.
- Safety standards, local wiring rules and regulations.

Failure to follow these instructions will result in death or serious injury.

⚠️ DANGER

HAZARD OF ELECTRIC SHOCK

- Make sure that the terminal connection area does not come in contact with the metallic parts of any device installed in the same location.
- Do not short the outputs to neutral.

Failure to follow these instructions will result in death or serious injury.

About the device

The Wiser Micro Module Dimmer (hereinafter referred to as Puck) combines the advantages of smart dimmer functionality with ordinary mechanical push-button switches. It transforms a conventional switch into a connected device which can be controlled from the switch or through the Wiser app. It can switch and dim the ohmic, inductive, or capacitive loads and it is also compatible with dimmable LEDs.

NOTE: Do not control any devices that depend on a permanent power supply.

Additional features:

- Remote control with maximum of 10 single mechanical push-buttons.
- Setting the LED operating mode manually (RL LED mode).
- Electronic overload protection, overheating protection, and short-circuit protection.
- Setting the dimming range: minimum and maximum brightness.
- Setting a time schedule.

Installing the device

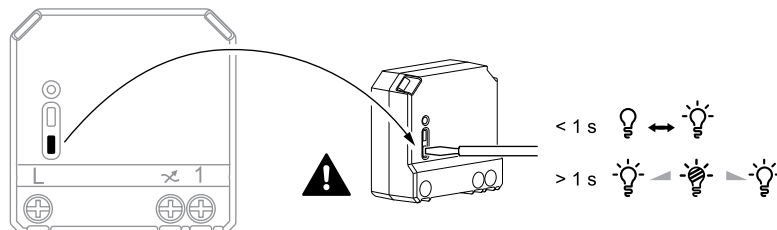
Refer to the installation instructions supplied with this product.

Testing the device

Before using the Puck, manually test it and make sure that it works when connected to the lighting devices.



⚠ WARNING
<p>HAZARD OF ELECTRIC SHOCK</p> <ul style="list-style-type: none"> • Observe the regulations for working on live parts. • Only actuate the device buttons using insulated auxiliary equipment that meets the requirements of EN 60900. <p>Failure to follow these instructions can result in death, serious injury, or equipment damage.</p>

- Short press the test button once, the connected lighting device turns on/off.
- Press and hold the test button to adjust the dimming level of the connected lighting device.

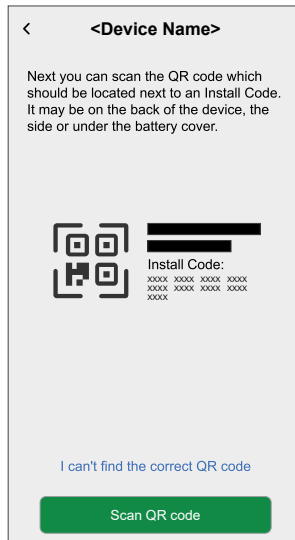


Pairing the device with Wiser Hub

Using the Wiser Home app, pair your Puck with the **Wiser Hub** to access and control the Puck.

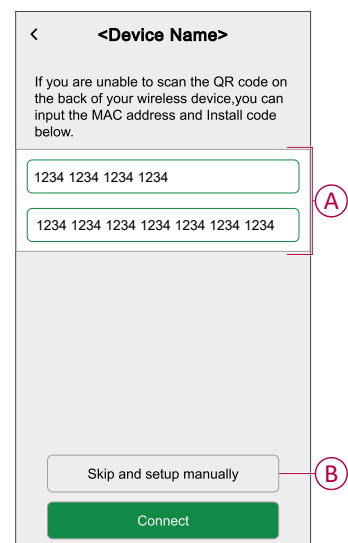
1. On the Home screen, tap .
2. Tap **Devices** >  and tap **Lights** > **Micromodule** > **Next**.
3. Tap **Scan QR code** and allow the Wiser Home app to access your camera. Then, scan the QR code located on the device.

NOTE: If you are unable to find the correct QR code, tap **I can't find the correct QR code** to pair the device manually and proceed to step 4.



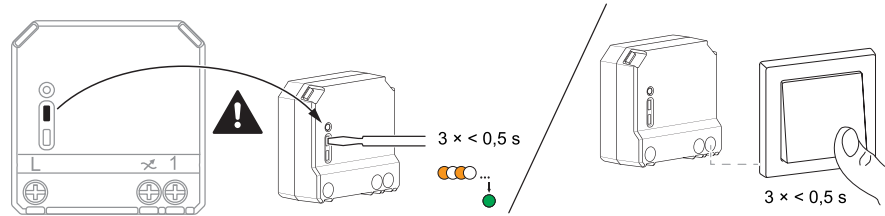
If the QR code is incorrect, a message **Incorrect QR code scanned** will appear. Tap **I can't scan the QR code** and choose one of the following options:

- **(A):** Enter the **Mac Address/EUI-64** and **Install Code**, then tap **Connect**. The app will verify if the Mac Address/EUI-64 and Install code are valid.
- **(B):** Tap this option if you are unable to find the Mac Address/EUI-64 and Install code.

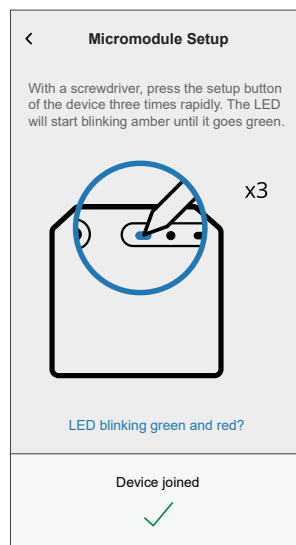


4. Once the device is validated, tap **Next**, perform any one of the following actions to add the device:
 - Short press the setup/reset button 3 times on the Puck with a screwdriver and make sure the LED blinks amber.
 - Short press the push button 3 times.

NOTE: If the puck is located behind the push button, the status LED is not visible.



5. Wait for a few seconds until the LED turns green. You can also see in the app that the device is joined.




6. Tap **Next** to enter the name of the device and assign the device to a new room or an existing room.

The puck is now listed on the **Control** tab under **All** and **Room** tabs.

Configuring the device

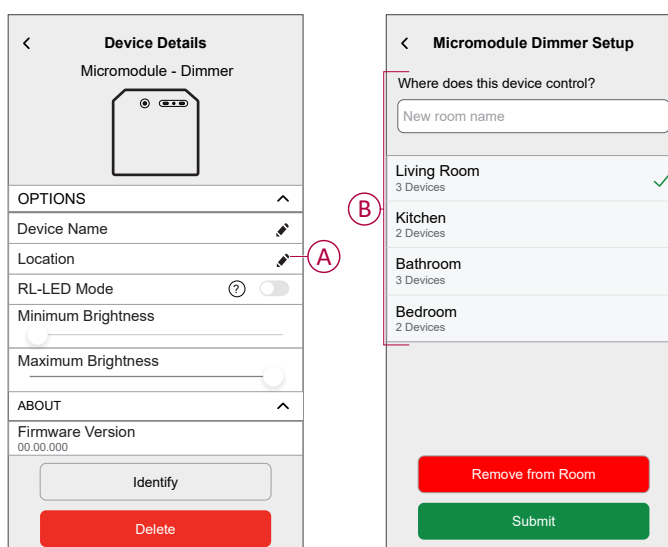
Selecting a location for the device

Using the Wiser Home app, add the Puck to any room (such as living room, bedroom, kitchen etc).

1. On the Home screen, tap .
2. Tap **Devices > Micromodule Dimmer > Location (A)** to assign the puck to an existing room or a new room (B) and tap **Submit**.

NOTE:

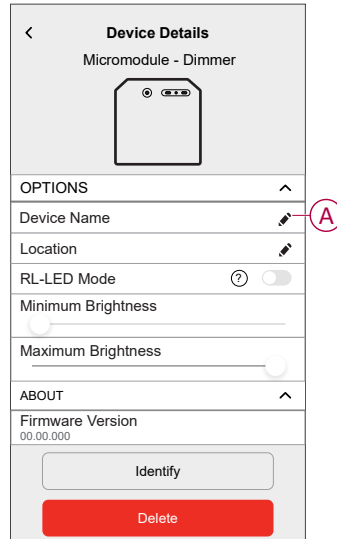
- Tap **Remove from Room** to remove the device from the existing room.
- **Micromodule Dimmer** is the name given to the device by the user. Any name can be assigned when pairing with the Wiser hub.



Renaming the device

Rename the device using the Wiser Home app.

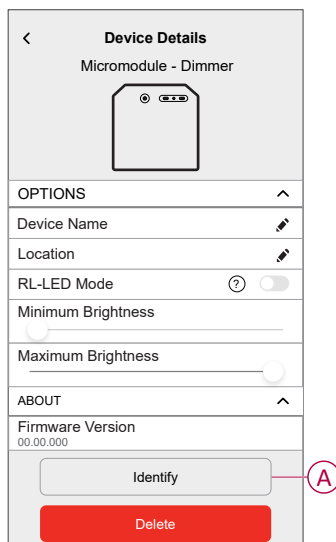
1. On the Home screen, tap .
2. Tap **Devices > Micromodule Dimmer > Device Name (A)** to rename the device.



Identifying the device

Using the Wiser Home app, identify the Puck among the devices available in a home.

1. On the Home screen, tap .
2. Tap **Devices > Micromodule Dimmer > Identify (A)**.




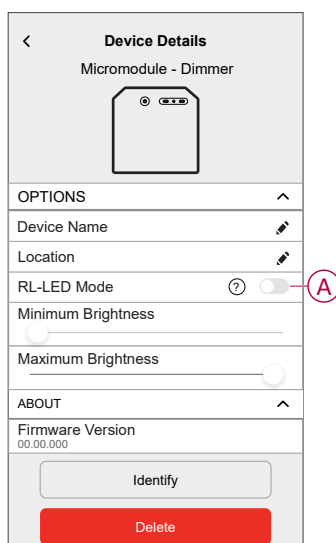
The status LED blinks red and connected lighting devices blinks On/Off, upon successful identification of the Puck.

3. Tap **OK** to finish identifying the device.

Setting RL-LED mode


You can change the dimming mode in the app if you have problems with light flickering. By changing the dimming mode, the dimming quality is also improved.

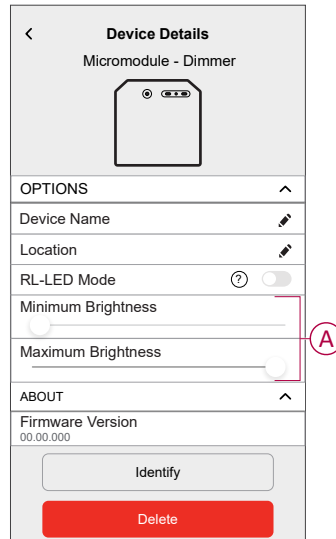
1. On the Home screen, tap .
2. Tap **Devices > Micromodule Dimmer**.
3. Tap the toggle switch (A) to enable the **RL-LED Mode**.



Setting the minimum and maximum brightness level

If the dimmer is connected to an LED, the minimum and maximum brightness should be set to avoid flickering and switching off the LED.

1. On the Home screen, tap .
2. Tap **Devices > Micromodule Dimmer**.
3. Drag the slider bar to increase or decrease the **Minimum Brightness** and **Maximum Brightness (A)**.

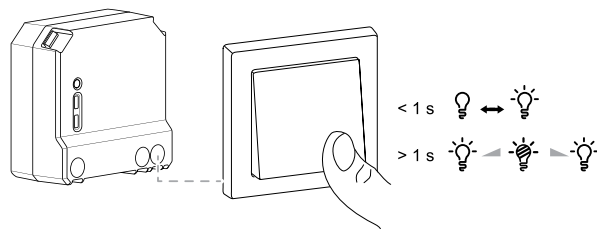


Using the device

Manual operation

When the is connected to a mechanical push button, the connected lighting devices can be controlled manually.

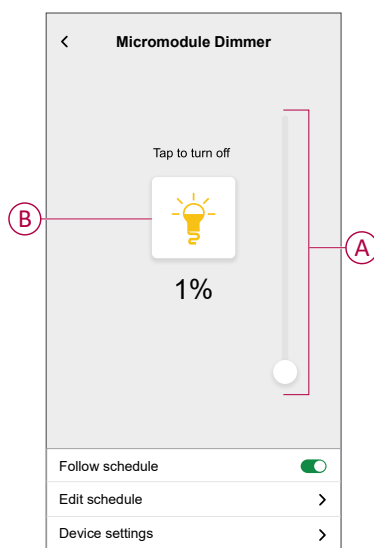
- Short press the mechanical push button to turn on/off the light.
- Press and hold the mechanical push button to adjust the dimming level of the light.




Adjusting the brightness level using app

By using the Wiser Home app, increase/decrease the brightness level in the Puck.

1. Go to the **Control** tab, tap **All** devices or the room tab where the Puck is located.
2. On the Device Control Screen, drag the sliding bar up/down to increase/decrease the brightness (A).




TIP: You can also turn on/off the Puck on the Device Control Screen, tap

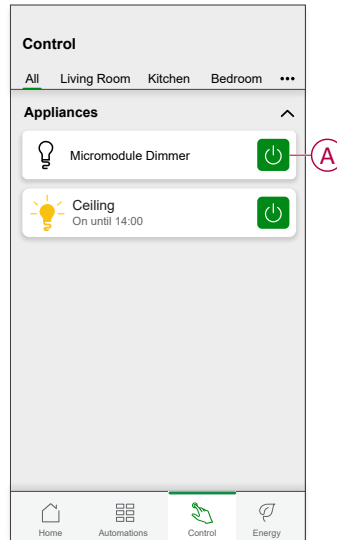
 (B) to turn on/off.

Turning On/Off Puck using app

Using the Wiser Home app, you can turn on/off the Puck remotely.

1. Go to the **Control** tab, tap **All** devices or the room tab where the Puck is located.
2. Tap  (A) to turn on/off.



TIP: You can also turn the device On/Off when you add it to your **Favourite**. To know more about **Favourite**, refer to the **Managing Favourites** topic in the respective System User Guide.



Setting up a schedule


The devices can be fully controlled by schedule. Once the schedule is set, the devices operate at a given time.

To create a schedule:

1. On the **Home** screen, tap .
2. Go to **Schedules** >  to create a schedule.
3. Enter the name of the schedule (A).
4. In the **TYPE** menu, select **Lights** (B).
5. In the **APPLIES TO** menu, select **Micromodule Dimmer** (C) from the listed devices.



6. Tap **Create** to setup events.

7. Tap  to add an event such as **STATE** (lights off or dimming level in %) and **WHEN** (sunrise/sunset or specific time range).

NOTE: Tap  to copy the schedule from one day to other days or copy the entire schedule to a new schedule or to an existing one.

8. Tap **Set** to save the schedule.

TIP:



- You can add multiple schedules based on your requirement. Select days, tap , set ON/OFF state and time.
- You can copy the existing schedule to another schedule or to the days of your choice. Tap .
 - Tap **Schedule** and select an existing schedule and tap **Copy**.
 - Tap **Day** and select the days you want to assign and tap **Copy**.
- When the schedule begins, you can see the **until time** on the control tab under the device name.


Moments

Moment allows you to group multiple actions that are usually performed together. By using the Wiser Home app, you can create moments based on your needs.

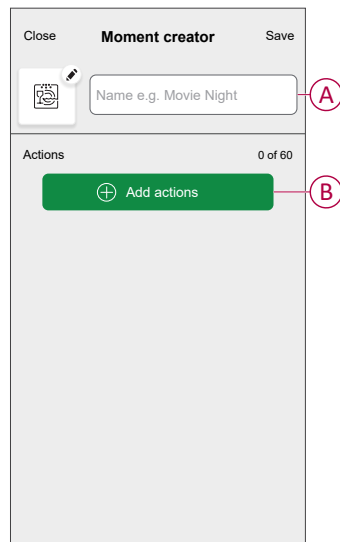
Creating a moment

Moment allows you to group multiple actions that are usually performed together. By using the Wiser Home app, you can create moments based on your needs. To create a moment:

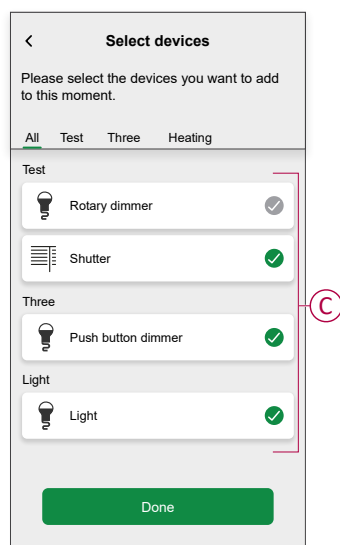
- On the **Home** screen, tap  > **Moments** > .
- Enter the name of the moment (A).

TIP: You can choose the cover image that represents your moment by tapping .

3. Tap **Add actions** (B) to select the list of devices.




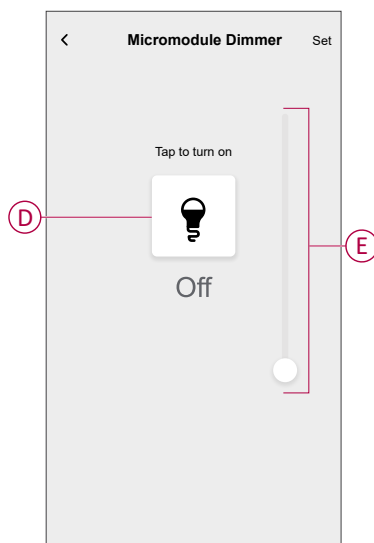
4. Select the devices (C) you want to add in the moment and tap **Done**.



5. Once all the devices are selected, tap **Done**.

- On the **Moment creator** page, tap the device to set the condition. For example, select Micromodule dimmer.


- Tap  (D) to turn on.
- Drag the sliding bar up/down to increase/decrease the brightness (E) and tap **Set** on the upper right corner.





- After setting all conditions, tap **Save**.

Once the moment is saved, it will appear on the **Moments** tab. Tap on the moment to enable it.




TIP: If you want to see the created moments on the **Home** screen, go to

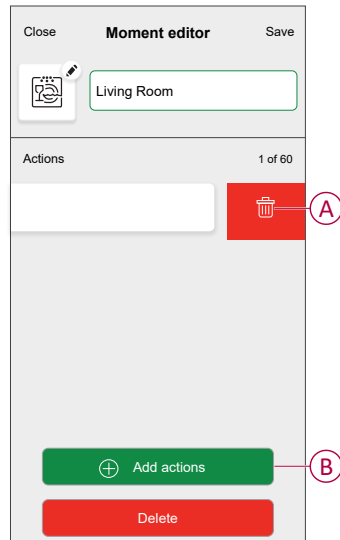
Home >  > **Home Screen** > **Moments**. Enable the toggle button to view moments on the **Home** screen. For more details, refer to the respective System User Guide.

Editing a moment

- On the **Home** screen, tap **Automations** .
- Go to **Moments**, locate the moment you want to edit and tap .



3. On the **Moment editor** page, you can perform following changes:

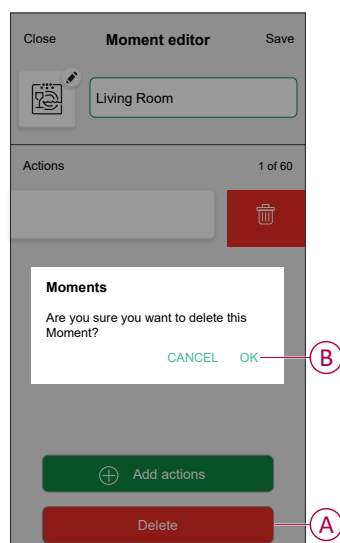
- Change the icon .
- Rename the moment.
- Tap each action to change the settings.
 - To remove an action, slide the action to the left and then tap  (A) to delete it.
 - Tap  **Add actions** (B) to add new action.



4. Tap **Save** to save the changes.

Deleting a moment



1. On the **Home** screen, tap **Automations** .
2. Go to **Moments**, locate the moment you want to delete and tap .
3. On the Moment editor page, tap **Delete** (A) and then tap **OK** (B).




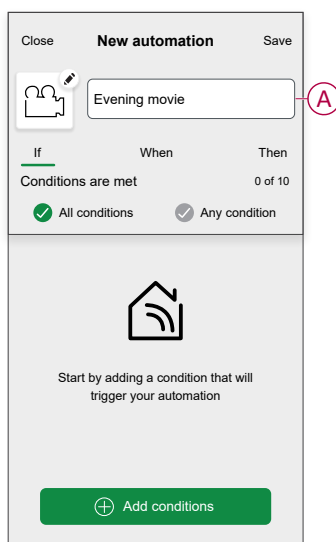
Automation

An automation allows you to trigger an action automatically or at scheduled times. By using the Wiser Home app, you can create automations based on your needs. This example demonstrates how a device works when the condition is met.

Creating an automation

1. On the **Home** screen, tap .
2. Go to **Automation** and then tap  to create an automation.
3. Enter the name of the automation (A) and select any of the following conditions to trigger an automation.
 - **All conditions:** All conditions must be met to trigger an automation.
 - **Any condition:** Any one of the condition must be met to trigger an automation.

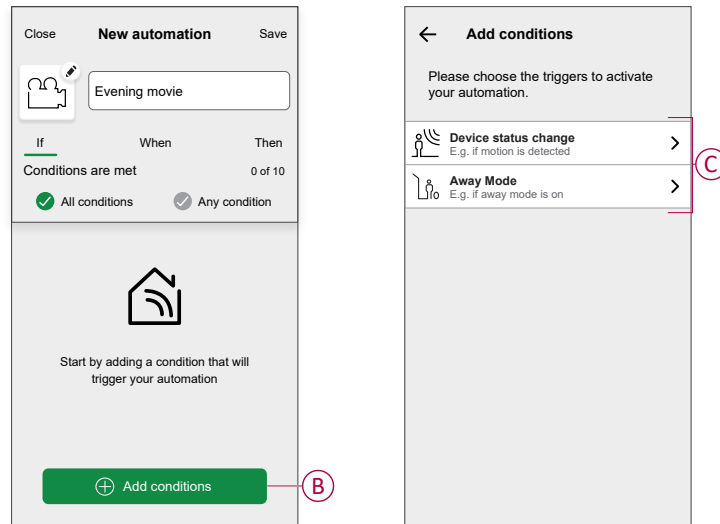
TIP: You can choose the cover image that represents your automation by tapping .



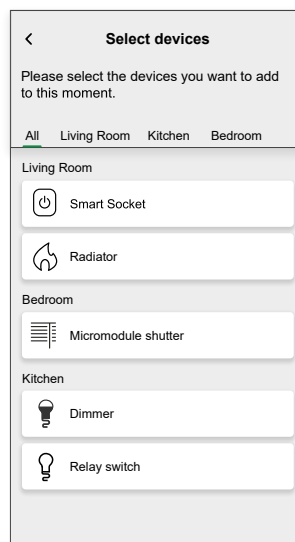
4. Tap **Add conditions** (B) and select any of the following (C).

- **Device status change** (Select the device): An automation will be triggered based on a device status, such as the opening of a shutter or the detection of movement by a motion sensor.
- **Away Mode** (Enable or Disable): Away mode can also trigger an automation to turn on the lights, close the shutter etc. For more information about **Away Mode**, refer to the system user guide.

NOTE: Maximum 10 conditions can be added.



- a. In this example, we will select **Device status change** and choose a device to set the condition. Then, we will select the state of the device that will trigger the automation, such as the closed state of a micromodule shutter.



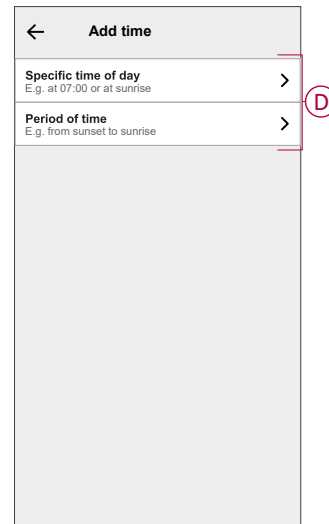
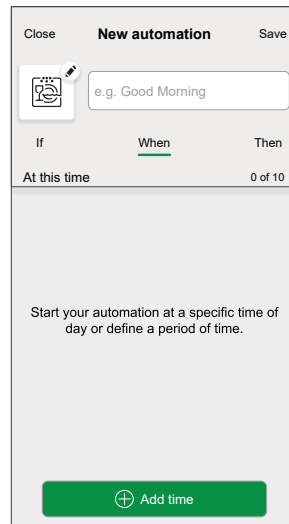
- b. After selecting the device, tap **Set** on the upper right corner.

TIP: If you want to change the condition, swipe it to the left and tap the bin icon. Then add a new condition with the required parameters.

5. To start your automation at a particular time, tap **When > Add time** and select any of the following (D):

NOTE: Maximum 10 time entries can be added.

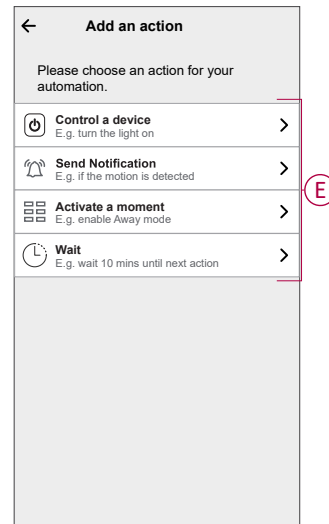
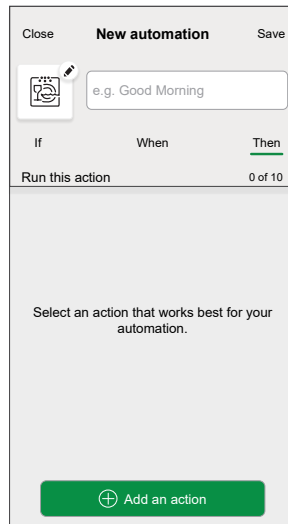
- **Specific time of day** - The automation will trigger at a specific time of the day, such as at sunrise, sunset, or at 8:00 AM.
- **Period of time** - The automation will be trigger during time periods such as from sunrise to sunset, or sunset to sunrise, or from 8:00 AM to 5:00 PM.



6. To add an action, tap **Then > Add an action** and select any of the following (E):

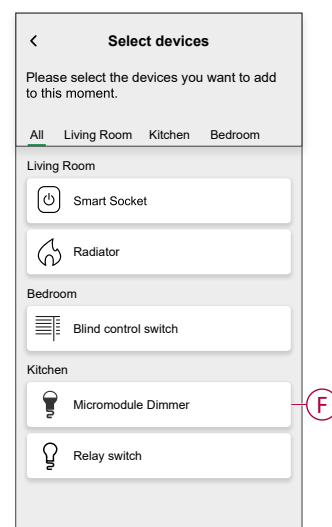
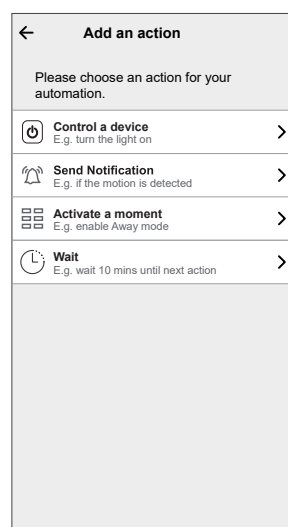
NOTE: Maximum 10 actions can be added.

- **Control a device** - Select the device and set the desired state of the device.
- **Send notification** - You will be notified if the condition is met.
- **Activate a moment** - Select a Moment to activate during the automation.
- **Wait** - This option allows you to add a delay in an automation sequence. You can set the wait time in increments of 1 hour and 1 minute, up to a maximum of 24 hours. This feature is useful for delaying actions within an automation.

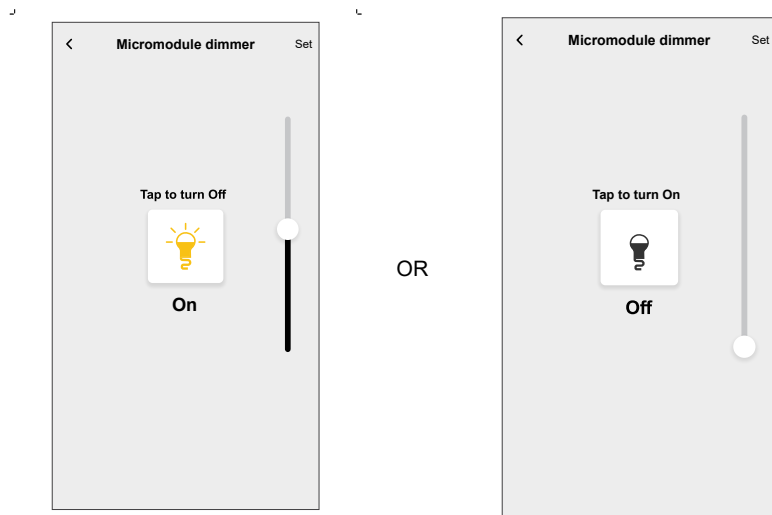


- a. In this example, we will initially select **Control a device** and select **Micromodule Dimmer** (F) as the device to trigger an action, later, we will select for the **Wait** option to add a delay in the automation.

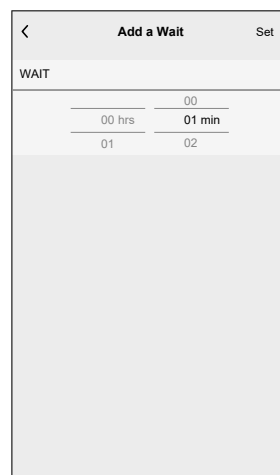
IMPORTANT: You cannot select the same device that you selected for **Add conditions** in Step 4. The device should be different.



- b. Set the state, such as increase/decrease the dimmer brightness or switching the dimmer On/Off. Then, tap **Set** located on the upper right corner.

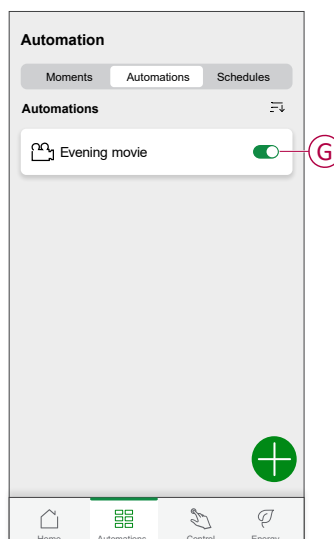


- c. Again, tap **Add an action** and select **Wait** option.
- d. Scroll through the minutes and set the wait time to 1 minute. Then, tap **Set** located on the upper right corner.







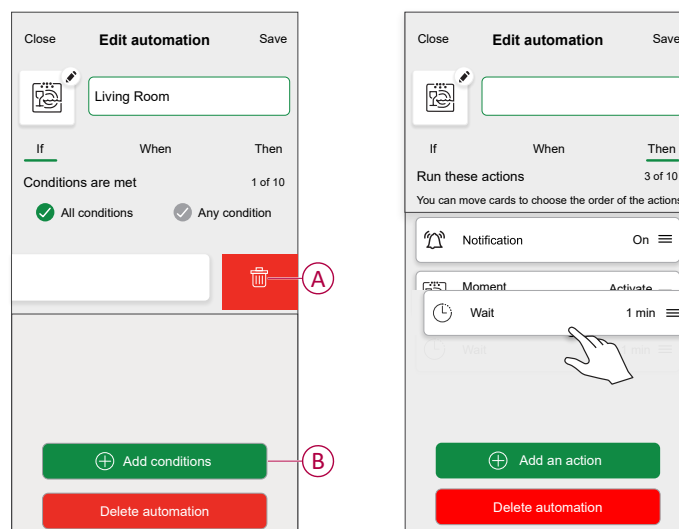
7. Tap **Save**.

The saved Automation is displayed on the **Automation** page. Tap the toggle switch (G) on the Automation page to enable/disable the Automation.




Editing an automation

- On the **Home** screen, tap **Automations** .
- Go to **Automation**, tap the automation you want to edit.
- On the **Edit automation** page, you can perform following changes:
 - Change the icon .
 - Rename the automation.
 - Tap each condition to change the settings.
 - To remove a condition, slide the condition towards left and then tap  (A) to delete it.
 - Tap  **Add conditions** (B) to add new condition.
 - To change the order of actions, tap the **Then** option, and hold an action then drag and drop to the desired position.

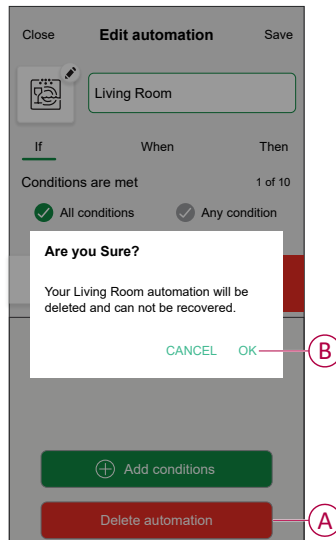


- Tap **Save** to save the changes.

Deleting an automation

- On the **Home** screen, tap **Automations** .
- Go to **Automation**, tap the automation you want to delete.

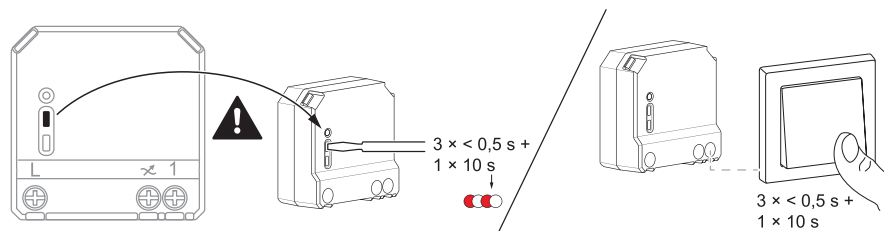
3. On the **Edit automation** page, tap **Delete automation** (A) and read the confirmation message and then tap **OK** (B).



Resetting the device manually

Select any one of the options to reset the device to factory default mode:

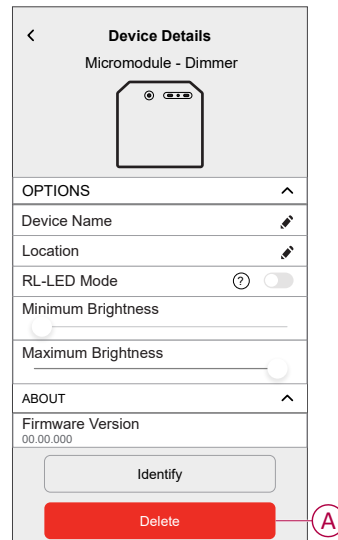
- Short press the Setup/Reset button 3 times and then long press the Setup/Reset button once for 10 s on the puck with a screwdriver.
- Short press the push button 3 times and then long press the push button once for 10 s.



Removing the device from Wiser system

Using the Wiser app, you can remove the Puck from the system.

1. On the Home screen, tap .
2. Tap **Devices > Micromodule Dimmer > Delete (A)**.





NOTE:



- Removing the device will reset the Puck. After reset the LED turns amber indicating that the Puck is ready to pair with another network.
- If there is a problem while pairing or resetting the Puck, refer to Resetting the device manually, page 25.

LED indication

Pairing the device




User Action	LED Indication	Status
Short press the setup/reset button or push button 3 times.	LED blinks amber once per second. 	Pairing mode is active for 30 seconds. When pairing is completed, LED displays green for a few seconds before turning Off. 

Resetting the device












User Action	LED Indication	Status
Short press the setup/reset button or push button 3 times and hold it down once for > 10 s.	LED blinks red once per second. 	The device is in reset mode. The device then restarts and LED turns amber indicating that the device is ready for pairing. 

Troubleshooting

Symptom	Solution
Dimming up not possible.	<ul style="list-style-type: none"> Reduce/increase load. Allow the Puck to cool in case of overheating. Change the load (if the load is incompatible with the Puck).
Switching on not possible.	<ul style="list-style-type: none"> Allow the Puck to cool in case of overheating. Reduce load. Change load. Check wiring between the push button and the Puck.
Flickering at minimum brightness.	<ul style="list-style-type: none"> Increase minimum brightness (if flickering still persists, install a 31LCDA load correction device). Change the load (if the minimum brightness is insufficient). Set RL LED mode (it is advised to use 10 % of nominal load to avoid overheating of the puck).
Flickering	<ul style="list-style-type: none"> Change load. Set RL LED mode (it is advised to use 10 % of nominal load to avoid overheating of the puck).
Only slight dimming capability	<ul style="list-style-type: none"> Change dimming range. Set RL LED mode (it is advised to use 10 % of nominal load to avoid overheating of the puck). Change the load (if the load is incompatible with the Puck).
The device is not ready to pair after the device is removed from the app.	Reset to factory default settings, refer to Resetting the device manually , page 25

Symptom	Possible cause	Solution
The device is not able to connect with the Hub. After pressing 3 times, the device LED blinks green/red for 30 s.  NOTE: This does not apply to newer Zigbee® model.	Pairing mode has changed.	<ol style="list-style-type: none"> Factory reset the device. After reset, press top right corner of the switch for 4 times and then hold for 20 s, until the LED blinks red.  The device should reboot into the correct mode. After reboot, press 3 times on top right corner of the switch to initiate pairing mode. LED flashes orange. 

Technical data

Nominal power rating for load type		
	LED	5 – 100 VA  RC 5 – 20 VA  RL
	Incandescent lamp	14 – 200 W  R
	Iron core transformer	14 – 150 VA  L
	Halogen lamp	14 – 150 W  R
	Electronic step-down converter	14 – 200 VA  C

Nominal voltage	AC 220-240 V, 50/60 Hz
Dimming channel	1
Standby	Max. 0.4 W
Operating Temperature	0 °C to 35 °C
Neutral conductor	Not required
Connecting terminals	Max. 2 x 2.5 mm ² , solid or stranded types
Extension connection	Max. 10 mechanical push buttons
Length of all cable sections	Max. 50 m for 3-wire NYM cable
Fuse protection	16 A circuit breaker
Operating frequency	2405 - 2480 MHz
Max. radio-frequency power transmitted	<10 mW
IP rating	IP20
Product dimensions (H x W x D)	43 x 43 x 22 mm
Communication protocol	Zigbee 3.0 certified

Compliance

Product Environmental Data

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DUG_Micro Module Dimmer_WH-04