

Wiser Micro Module Dimmer

Device user guide

Information about features and functionality of the device.

06/2024



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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



CLP5010WDZ

For your safety

⚠️⚠️ DANGER

HAZARD OF ELECTRIC SHOCK, OR ARC FLASH

- It is illegal for persons other than an appropriately licensed electrical contractors or other persons authorised by legislation to work on the fixed wiring of any electrical installation.
- To comply with all safety standards, the device must be used only for the purpose described in this instruction and must be installed in accordance with the wiring rules and regulation in the location where it is installed.
- Lock out and tag the input circuit before accessing the wiring connections.
- There are no user serviceable parts inside the device

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.

⚠️ CAUTION

EQUIPMENT DAMAGE

- Always operate the product in compliance with the specified technical data.
- Never connect any mixed inductive/capacitive loads.
- Connect only dimmable loads.
- Do not use dimmable socket outlets.
- Please ensure that the device is disconnected from its circuit during the insulation resistance test

Failure to follow these instructions can result in injury or equipment damage.

⚡⚠ DANGER**RISK OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH**

- When working on the device, always disconnect the device from the power supply, as the output may carry electrical current even when the load is switched off.
- Isolate the incoming circuit before installation, maintenance, or service (or replacement of the load) of the device.

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

About the device

The Wiser Micro Module Dimmer (hereinafter referred to as module) 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

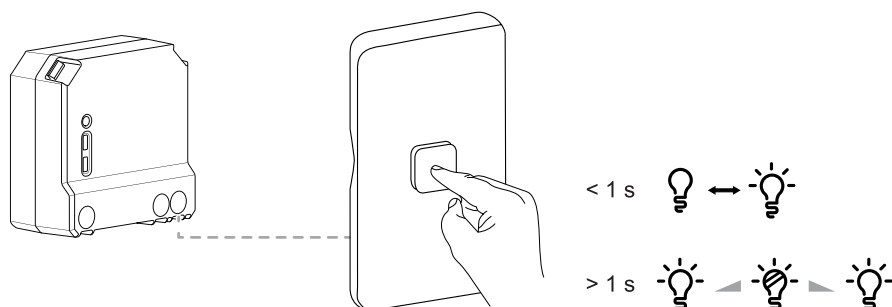
Refer to the installation instruction supplied with this product.

See [Wiser Micro Module Dimmer](#).

Testing the device

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

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



Pairing the device

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

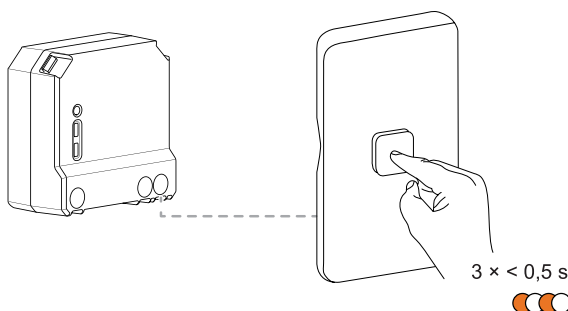
To pair the Puck:

1. On the Home page, tap .
2. Tap **Devices** >  and tap **Lights > Micromodule > Next**.

NOTE: The next screen shows the joining process of **Puck**.

3. Select any one of the options 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.



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




5. 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 under **All** devices.

Configuring the device

Selecting a location for the device

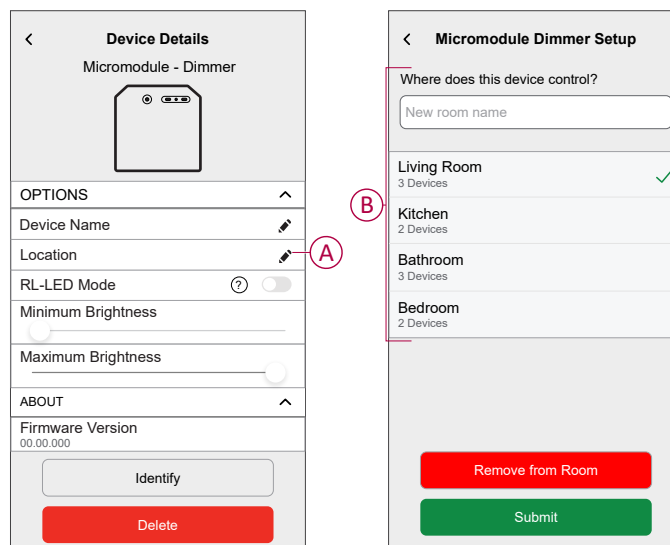
Using the Wiser Home app, add the Puck to any room (such as living room, bedroom, kitchen etc).

1. On the Home page, 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:

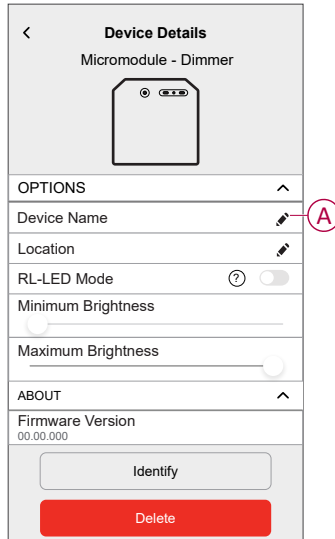
- Tap **Remove from Room** to remove the device from the existing room.
- **Micromodule Dimmer** is the name given to the device by the user. Any name can be assigned when pairing with the Wiser hub.



Renaming the device

Rename the device using the Wiser Home app.

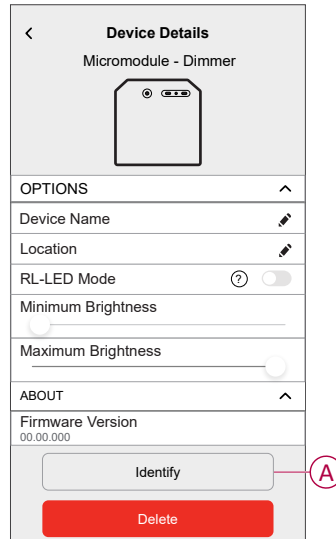
1. On the Home page, tap .
2. Tap **Devices > Micromodule Dimmer > Device Name (A)** to rename the device.



Identifying the device

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

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




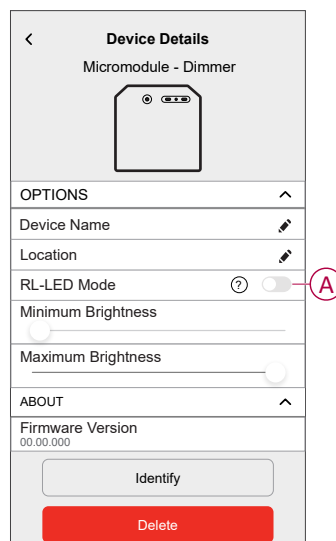
The status LED blinks red and connected lighting devices blinks On/Off, upon successful identification of the Puck.

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.

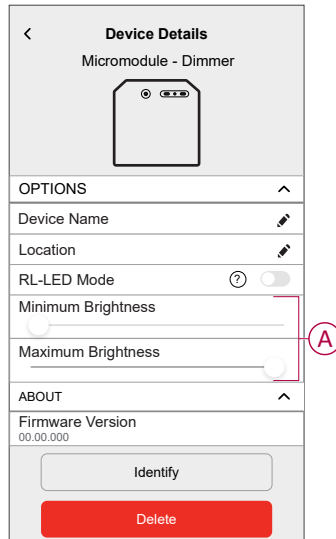
1. On the Home page, tap .
2. Tap **Devices > Micromodule Dimmer**.
3. Tap the toggle switch (A) to enable the **RL-LED Mode**.



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

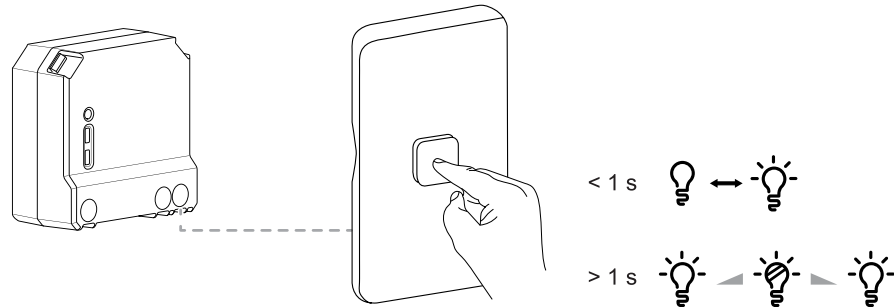


Using the device

Manual operation

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

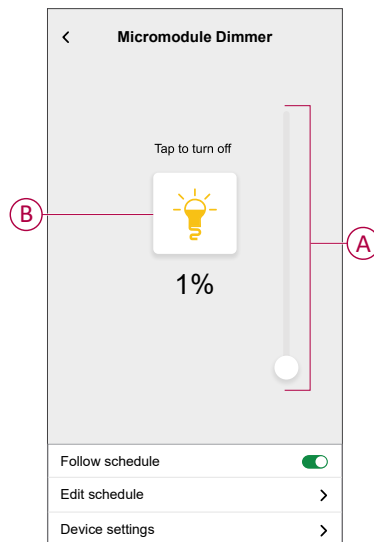
- Short press the mechanical push button to turn on/off the light.
- Press and hold the mechanical push button to adjust the dimming level of the light.




Adjusting the brightness level using app

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

1. Go to the Home page, tap **All** and find the device.
2. On the control panel page, drag the sliding bar up/down to increase/decrease the brightness (A).




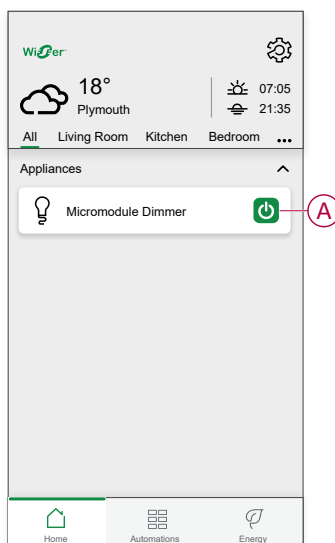
TIP: You can also turn on/off the module on the control panel page, tap  (B) to turn on/off.

Turning On/Off module using app

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

1. Go to the Home page, tap **All** and find the device.



2. Tap  (A) to turn on/off.

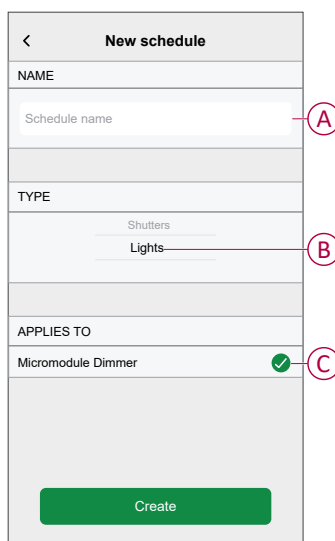


Setting up a schedule


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

To create a schedule:

1. On the **Home** page, 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  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.


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

Moments

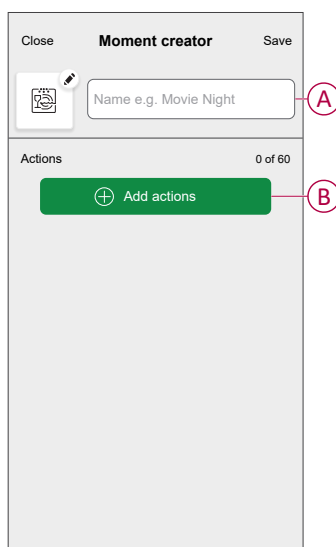
Moment allows you to group multiple actions that are usually performed together. By using the Wiser Home app, you can create moments based on your needs.

Creating a moment

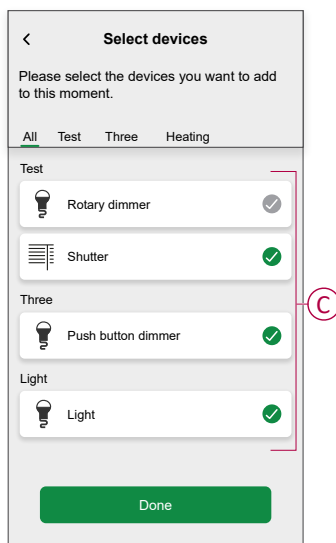
1. On the **Home** page, tap .
2. Go to **Moments** > **+** to create a moment.
3. Enter the name of the moment (A).

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

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




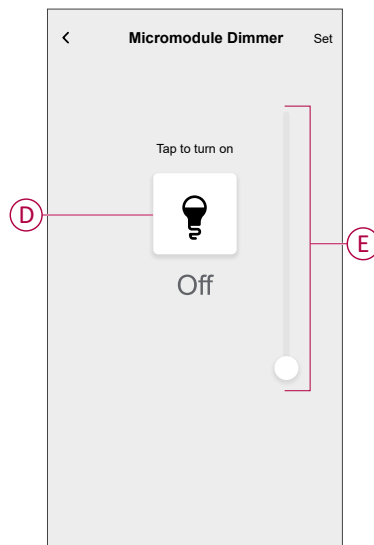
5. In the **Add actions** menu, you can select the devices (C).



6. Once all the device are selected, tap **Done**.

7. 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).





When the desired condition is set, tap **Set**.

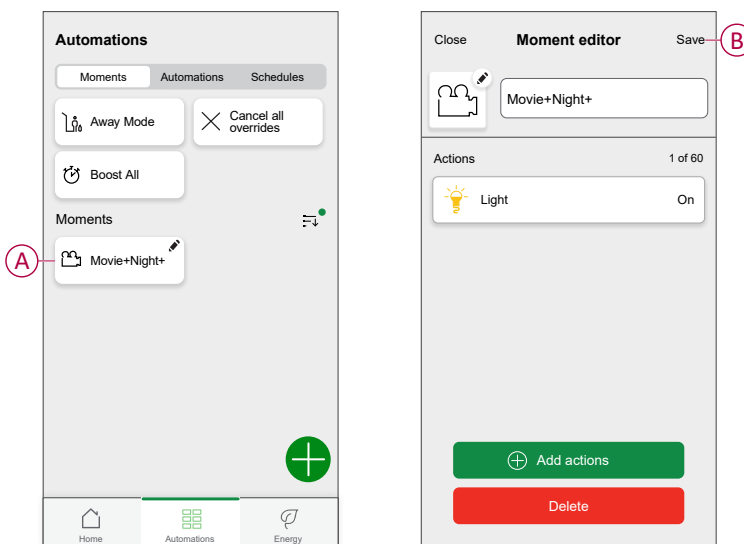
8. Once all conditions are set, tap **Save**.

Once the moment is saved, it is visible on the **Moments** tab. You can tap on the moment to enable it.

Editing a moment



To edit a moment:

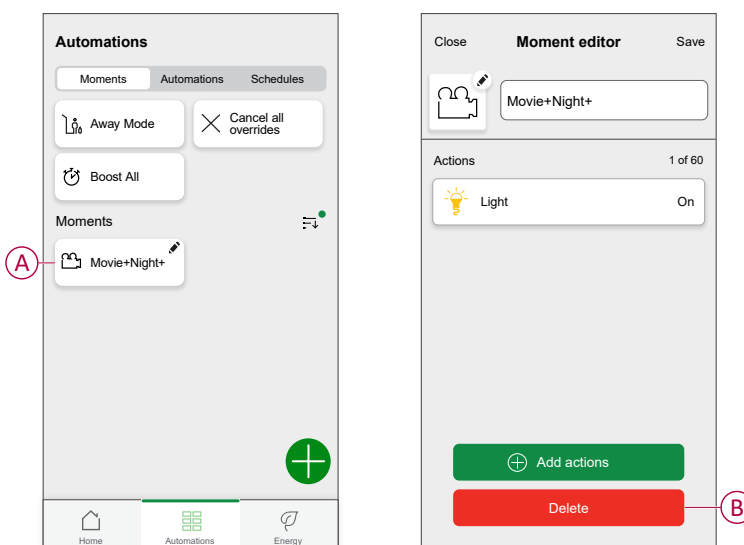
1. On the **Home** page, tap .
2. Go to **Moments**, locate the moment you want to edit and tap  (A).
3. On the **Moment Editor** page, you can tap each item to change the settings and tap **Save** (B).



Deleting a moment

To delete a moment:


1. On the **Home** page, tap .
2. Go to **Moments**, locate the moment you want to delete and tap  (A).
3. On the Moment Editor page, tap **Delete** (B) and tap **Ok**.

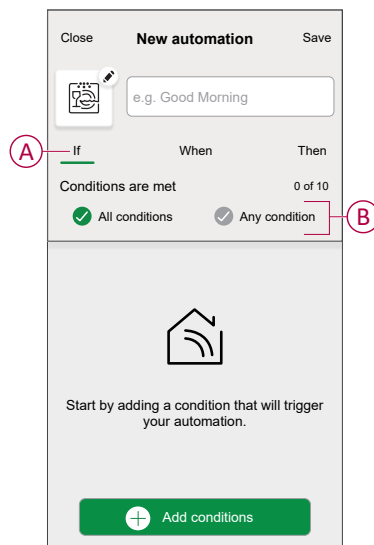


Automation

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.

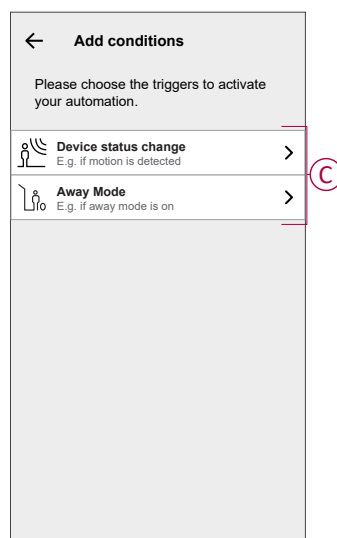
Creating an automation

1. On the **Home** page, tap .
2. Go to **Automation** > **+** to create an automation.
3. Tap **If** (A) and select any of the following conditions (B):
 - **All conditions:** This triggers an action only when all conditions are met.
 - **Any condition:** This triggers an action when at least one condition is met.

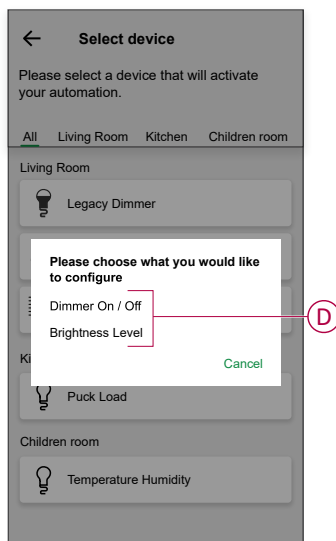



4. Tap **Add conditions** and select any of the following (C):
 - **Device status change:** To select a device to enable automation.
 - **Away Mode: Enable / Disable** away mode to trigger an action.

TIP: Away mode can also be used as a trigger to turn off the lights, dimmer or closing the shutter etc. For more information refer to [Away mode](#).

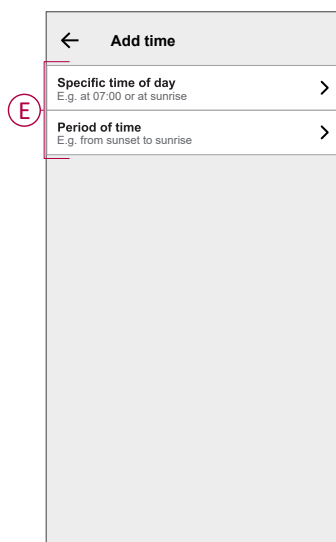



5. Tap **Device status change > Micromodule Dimmer** and select any of the following (D):
- **Dimmer On / Off:** To turn on/off the dimmer.
 - **Brightness Level:** To set the required brightness.

**NOTE:**

- Max. 10 conditions can be added.
- To remove condition, swipe it left and then tap .

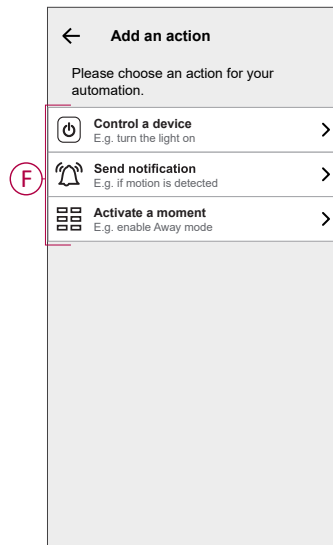
6. To set a specific time for your automation, tap **When > Add time** and select any of the following (E):
- **Specific time of the day:** Sunrise, Sunset, Custom
 - **Period of time:** Daytime, Night time, Custom




NOTE: To remove a specific time, swipe it left and then tap .

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

- **Control a device:** Select a devices that you want to trigger.
- **Send notification:** Turn on the notification for the automation.
- **Activate a moment:** Select the moment that you want to trigger.

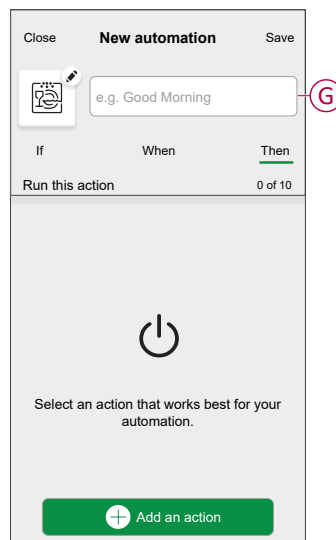


NOTE:

- Max. 10 actions can be added.
- To remove an action, swipe it left on the action and then tap .


8. Enter the automation name (G) .

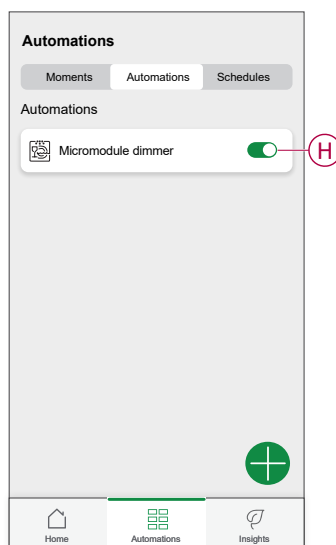
You can choose the cover image that represents your automation by tapping



9. Tap **Save**.

Once the automation is saved, it is visible on the **Automation** tab.

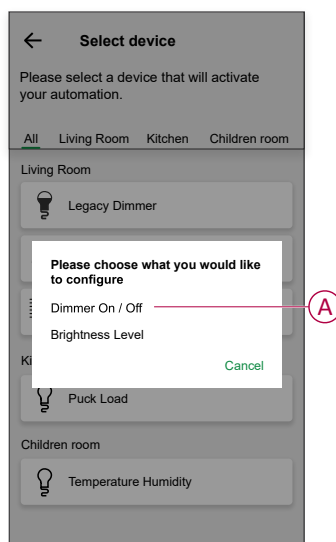
Using the  (H) you can enable or disable the automation.




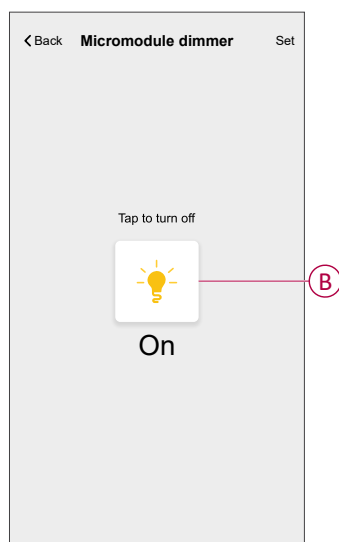
Example of an automation

In the example below, you will get a notification in your app when Dimmer is On during Daytime.

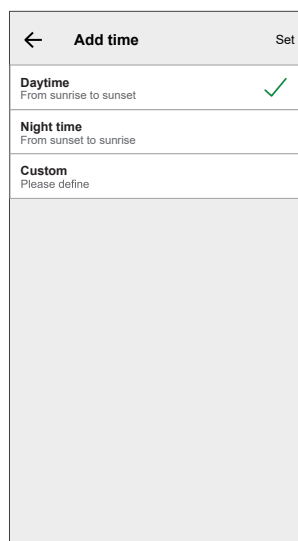
1. Go to **Automation** > **+** to create an automation.
2. To add a condition, tap **Add Condition** > **Device status change** > **Micromodule Dimmer**.
3. In Select function menu tap **Dimmer On / Off** (A).



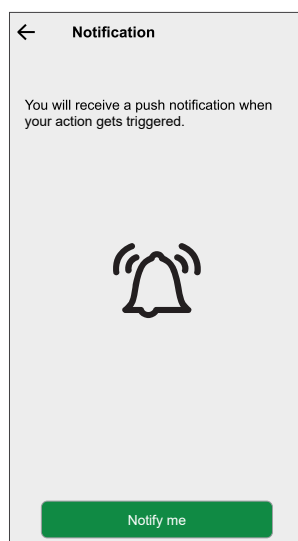
4. To change the status as Dimmer On, tap  (B), then tap **Set**.



5. To set the time, tap **When** > **Add time** > **Period of time** > **Day time** > **Set**.




6. To add an action, tap **Then** > **Add an action** > **Send notification** > **Notify me**.



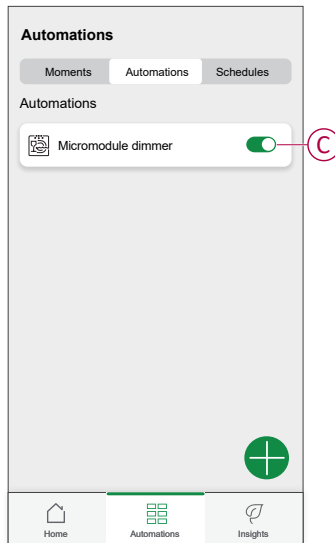
7. Read the information and tap **OK**.


8. Enter the name of the automation.

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

9. Tap **Save**.

Once the automation is saved, it is visible on the **Automation** tab.




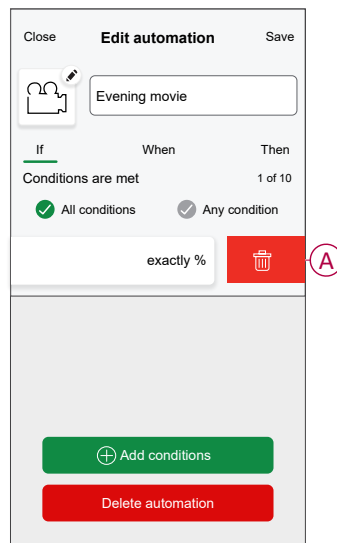
NOTE: You can enable or disable saved automations on the **Automation** tab by using  (C).

You will receive notification when the automation is triggered.

Editing an automation

To edit an automation:


1. On the **Home** page, tap .
2. Go to **Automation**, tap the automation you want to edit.
3. On the **Edit automation** page, you can:
 - Change the icon.
 - Rename the automation.
 - Change/Delete the condition or action.
4. Remove the Condition or Action by swiping it to the left and tapping the **bin** (A).

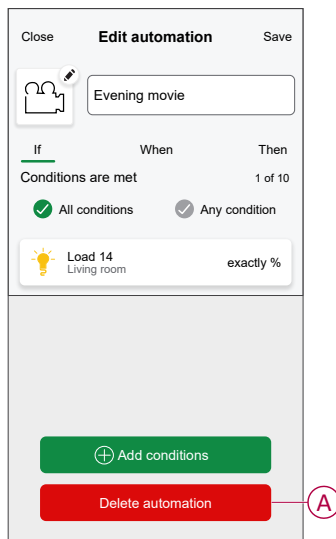


5. Add a new condition or action and then tap **Save**.

Deleting an automation

To delete an automation:

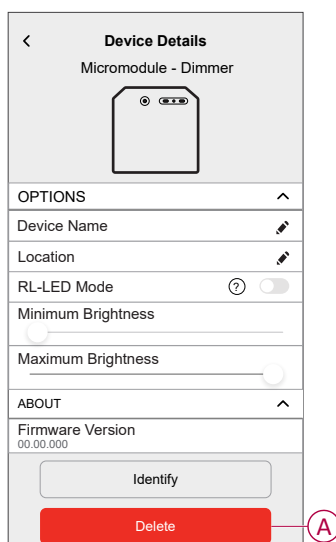
1. On the **Home** page, tap .
2. Go to **Automation**, tap the automation you want to delete .
3. On the Edit automation page, tap **Delete Automation** (A) and tap **Ok**.



Removing the device from Wiser system

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

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



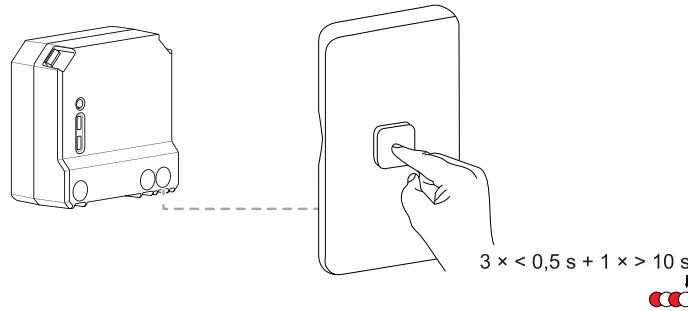
NOTE:

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

Resetting the device

You can reset the device to factory default manually.

1. Short press the push button 3 times and then long press the push button once for 10 s.



2. After 10 s, LED starts blinking red, then release the push-button.

NOTE: All configuration data, user data, and network data are deleted.



- Automatic load detection is active, if RC mode is set.

The LED stops blinking upon successful reset of the device.



The module restarts and blinks green for a few seconds.

LED indication

Pairing the device

User Action	LED Indication	Status
Short press the push button 3 times.	LED blinks orange once per second. 	Pairing mode is active for 30 seconds. When pairing is completed, LED glows green for a few seconds before turning off. 

Resetting the device











User Action	LED Indication	Status
Short press the 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 orange 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 module to cool in case of overheating. • Change the load (if the load is incompatible with the module).
Switching on not possible.	<ul style="list-style-type: none"> • Allow the module to cool in case of overheating. • Reduce the load. • Change the load. • Check wiring between the push button and the module.
Flickering at minimum brightness.	<ul style="list-style-type: none"> • Increase minimum brightness (if flickering still persists, install a Load Compensation Module). • 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 module).


Symptom	Solution
Flickering at maximum brightness.	<ul style="list-style-type: none">• Reduce the maximum brightness.• Change the load.
Flickering	<ul style="list-style-type: none">• Change the load.• Set RL LED mode (it is advised to use 10 % of nominal load to avoid overheating of the module).
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 module).• Change the load (if the load is incompatible with the module).
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 26.

Technical data

Nominal power rating for load type		
	Incandescent lamp	2200 W
	Halogen lamp	2000 W
	Iron core transformer	500 VA
	Motor	1000 VA
	Electronic step-down converter	1050 VA
	Capacitive load	10 A, 140 µF
	Fluorescent lamp	100 W
	LED	200 W
	Boiler	2000 W
	Room heater	1500 W

Nominal voltage	AC 220-240 V, 50/60 Hz
Nominal current	10 AX
Switching channel	1, dry contact
Standby	Max. 0.3 W
Operating Temperature	0 °C to 35 °C
Neutral conductor	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 certification	RCM 
Safety	AS/NZS 60669.2.1
EMC	AS/NZS 60669.2.1
RF	AS/NZS 4268

Compliance

Compliance information for Green Premium products

Find and download comprehensive information about Green Premium products, including RoHS compliance and REACH declarations as well as Product Environmental Profile (PEP) and End-of-Life instructions (EOLI).

<https://checkaproduct.se.com/>



General information about Green Premium products

Click the link below to read about Schneider Electric's Green Premium product strategy.

<https://www.schneider-electric.com/en/work/support/green-premium/>



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DUG_Micro Module Dimmer_WHP-00