Wiser Motion Sensor

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 Motion Sensor



CLP595011

About the device

The Wiser Motion Sensor (hereinafter referred to as **sensor**) detects nearby movement and measures the luminance of the environment.

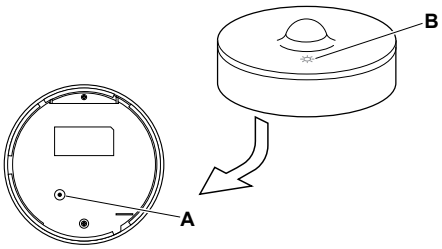
The sensor sends the data to the **Wiser Hub**. The threshold of luminance settings and/or detection of movement can be configured in the Wiser app.

Features of the sensor:

- Detect motion and send this information to the **Wiser Hub**.
- Detect and measure the lux level of the environment and passes the information to the **Wiser Hub**.
- Sends the sensor battery level and offline status information to the **Wiser Hub**.

Operating elements

A. Function key
B. Status LED



Installing the device

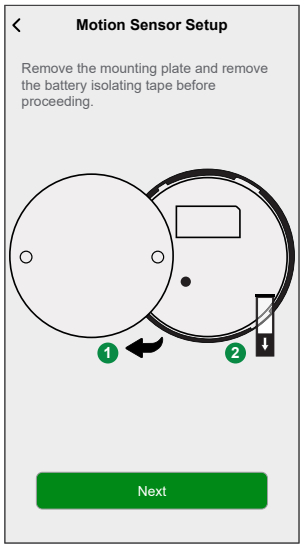
Refer to the installation instruction supplied with this product.
See Wiser Motion Sensor.

NOTICE
RISK OF DAMAGE TO DEVICE • Always operate the product in compliance with the specified technical data. • Do not install the sensor in a place with strong sunlight or wind (for example, close to ventilation). • Temperatures greater than 32 °C degrade the sensor's ability to measure sensitivity, detection range, and angle. **Failure to follow these instructions can result in equipment damage.**

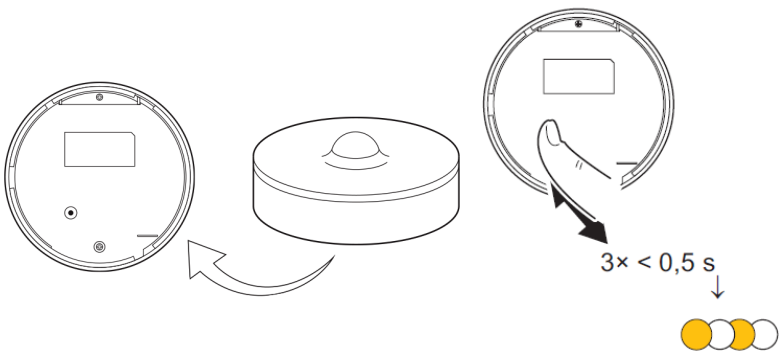
Pairing the device

Using the Wiser Home app, you can pair your sensor with the **Wiser Hub** to access and control the sensor.
To pair the sensor:

1. On the Home page, tap .
2. Tap **Devices >** **>Safety and Security**.
3. Tap **Motion Sensor > Next**.
   The next screen shows the sensor joining process.

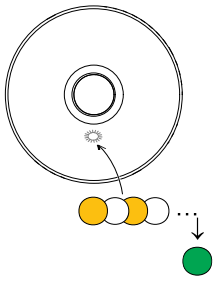


4. Short press the function key 3 times (< 0.5 s).
   The LED blinks amber.

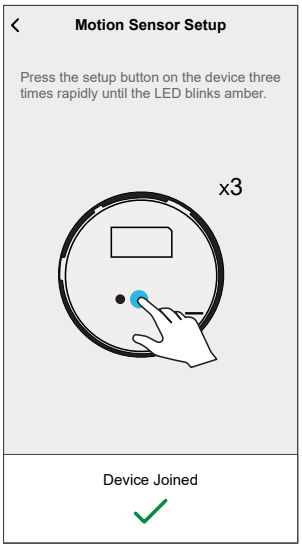


5. Wait for a few seconds until the sensor LED turns green.

   TIP: The stable green LED on the sensor shows that it is successfully connected to the **Wiser Hub**.



   You will see **Device joined** at the bottom of the screen once the sensor has been successfully connected to the **Wiser Hub**.



   NOTE: You can now mount the sensor on the wall or ceiling, as shown in the installation guide.

6. Tap **Next** to enter the sensor name.
7. Tap **Next** to assign sensor location and then tap **Submit**.

   TIP: You can find the paired sensor name and its location on the **All** or **Room** tab on the Home page.

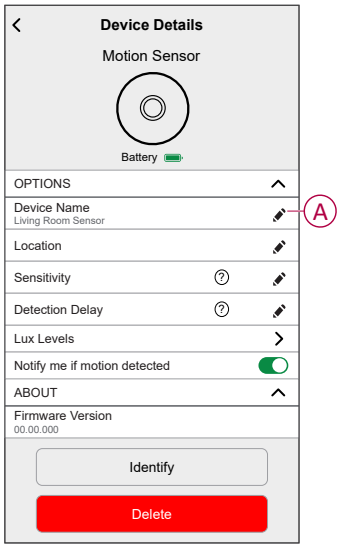
Configuring the device

Renaming the device

Using the Wiser Home app, you can rename the sensor.
To rename the sensor:

1. On the Home page, tap .
2. Tap **Devices > Motion Sensor > Device Name** (A).

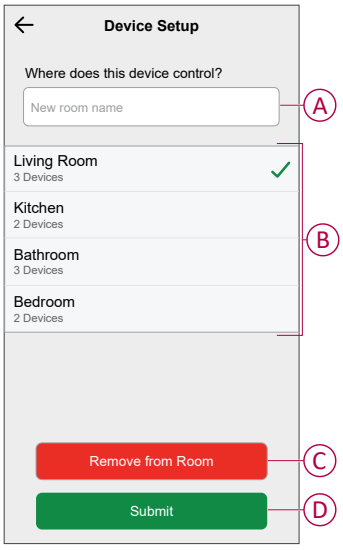
   TIP: Additionally, you can rename the sensor by tapping on the Home page **Motion Sensor > Device settings > Device Name** (A) .



Setting the device location

You can change the device location using Wiser Home app (such as bedroom, living room, dining room etc.).

1. On the Home page, tap .
2. Tap **Devices**, select the device from the list for which you wish to change the location.
3. Tap **Location** to open setup page.
4. On setup page, you can enter **New room name** (A) or select an existing room from the list (B).



TIP: If the device is already assigned, you can remove it from the existing room. Tap **Remove from Room** (C).

5. Once changes are done, tap **Submit** (D).

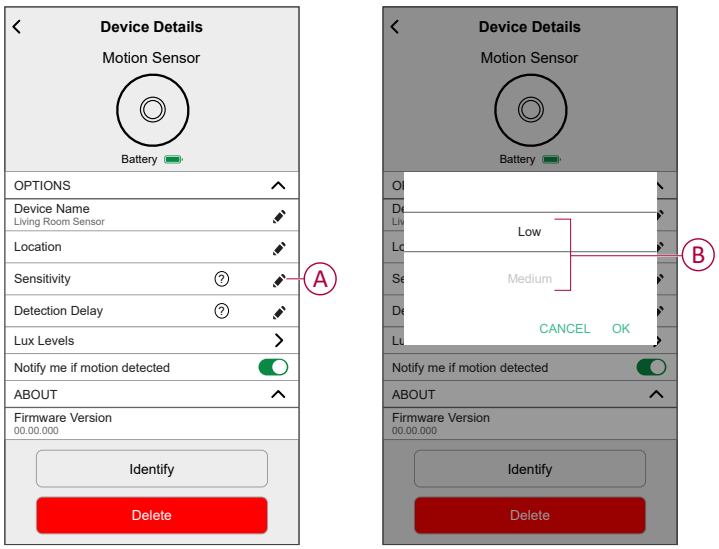
Setting the device sensitivity

Using the Wiser Home app, you can set sensitivity levels of the sensor.
To set the sensitivity levels of the sensor:

1. On the Home page, tap .
2. Tap **Devices > Motion Sensor > Sensitivity** (A) to select one of the following option (B):
   - **Low**
   - **Medium**
   - **High**

   NOTE: Sensitivity is set to **Medium** by default.

   TIP:
   - Additionally, you can change the sensor sensitivity levels by tapping on the Home page **Motion Sensor > Device settings > Sensitivity** (A).
   - Adjusting the sensitivity may increase or decrease the events the sensor detects. Selecting “High” sensitivity level detects the slightest movement.



3. Tap **Done**.

Setting detection delay

Using the Wiser Home app, you can set the detection delay time for the sensor. To set the detection delay time:

1. On the Home page, tap .

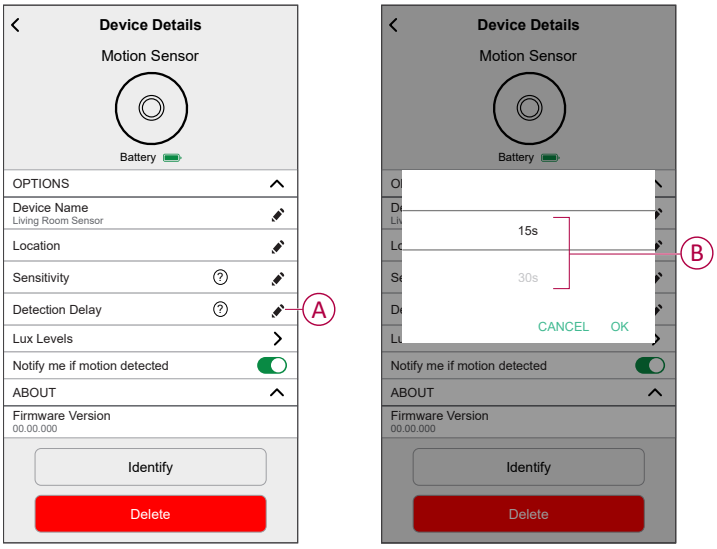
   NOTE: Before applying the new settings, please wake up the sensor (press the function key or simulate the motion).

2. Tap **Devices > Motion Sensor > Detection delay** (A) to select one of the following option (B):

   - **15s**
   - **30s**
   - **45s**
   - **60s**

   TIP: Additionally, you can set the sensor detection delay time by tapping on the Home page **Motion Sensor > Device settings > Detection delay** (A).

   NOTE: Changing the detection delay time from long to short duration shortens battery life.



3. Tap **Done**.

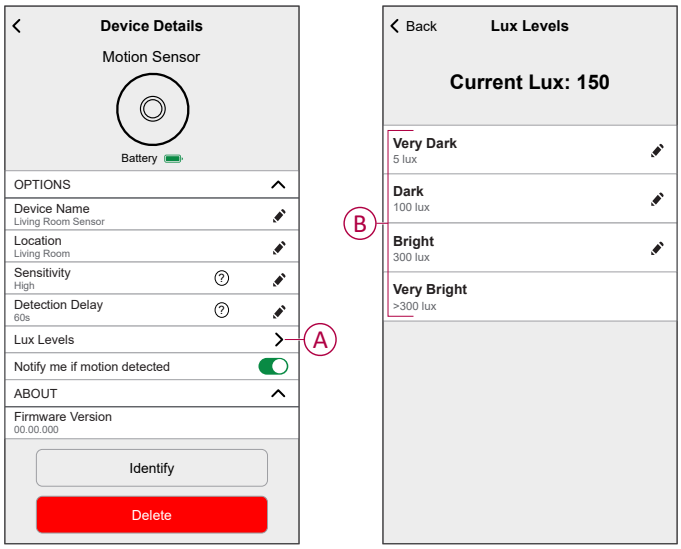
Defining Lux setting

Using the Wiser app, you can define the threshold value for lux ranges (such as very dark, dark, bright, very bright) of the environment. This will prevent the false alarm caused by changes in the light intensity.
To set the lux value:

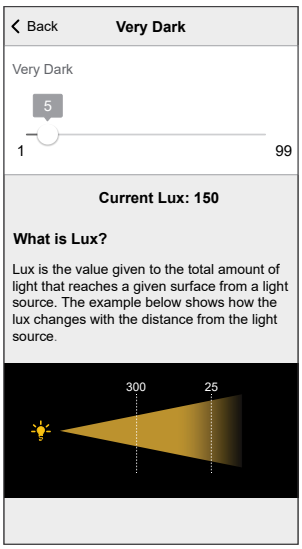
1. On the Home page, tap .
2. Tap **Devices > Motion Sensor > Lux levels** (A) to select and define threshold value one of the following option (B):
   - **Very dark**
   - **Dark**
   - **Bright**
   - **Very bright**

   TIP: Additionally, you can set the sensor lux value by tapping on the Home page **Motion Sensor > Device settings > Lux levels** (A).

   NOTE: A lux value represents the present light level in the environment that the sensor measures.



NOTE: In the sensor, the lux value is predefined by default. However, you can change the lux value using the sliding bar; for example, see **Very Dark**.



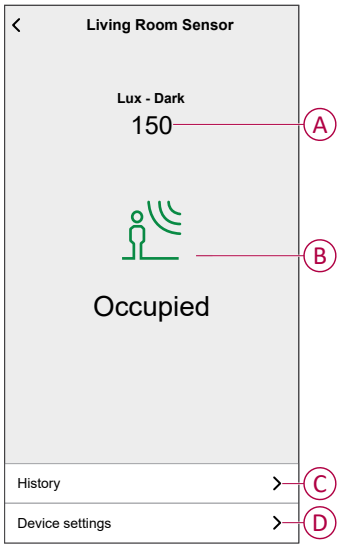
Using the device

The Control Panel of the sensor allows you to view if the motion is detected or not.

On the **Home** page, tap **All** > **Motion Sensor** to access the control panel.

On the Sensor control panel page, you can see the following:

- Current lux level (A)
- Motion detection status (B)
- History (C)
- Device settings (D)



Checking the device history

By using the Wiser Home app, you can view the sensor's history, which provides information about when motion detected event was logged. Each motion detected event is logged and stored in the cloud.

NOTE: If the cloud connection is lost, the motion events will not be displayed in the sensor's history.

To view the sensor history:

1. On the Home page, tap **All** > **Motion Sensor**.
2. On the device control panel page, tap **History**.

   TIP: The logged event appears on the sensor’s history page, even if the motion notification switch, page 15 is toggled off on the device details page.



Setting device notification

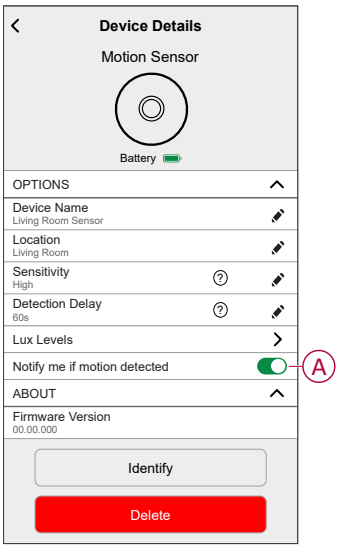
Using the Wiser Home app, you can enable or disable the sensor notification.
To enable or disable the sensor notification:

1. On the Home page, tap .
2. Tap **Devices > Motion Sensor > Notify me if motion detected** (A) to enable or disable the sensor notification toggle switch.

   TIP: Additionally, you can enable or disable the sensor notification toggle switch by tapping on the Home page **Motion Sensor > Device settings > Notify me if motion detected** (A).

   NOTE:

   - Sensor notification toggle switch (A) is OFF by default.
   - Notifications created via automation are treated as separate notifications.



Identifying the device

Using the Wiser Home app, you can identify the sensor from the other available devices in the room.
To identify the sensor:

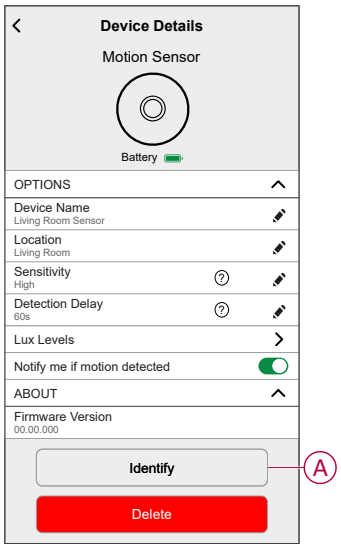
1. On the Home page, tap .

   NOTE: Please wake up the sensor (press the function key or simulate the motion).

2. Tap **Devices > Motion Sensor > Identify** (A).

   TIP: Additionally, you can identify the sensor by tapping on the Home page **Motion Sensor > Device settings > Identify** (A).

   NOTE: The sensor LED blinks to identify the sensor and continues blinking green until you tap **Ok**.



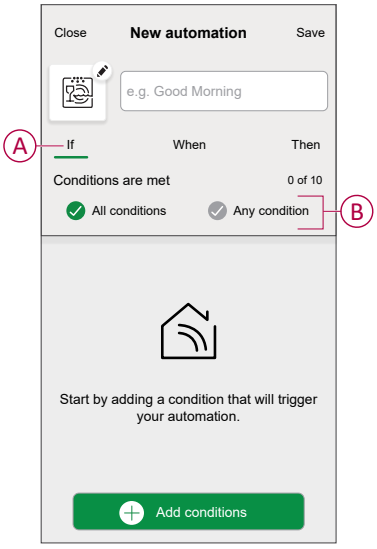
Automation

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

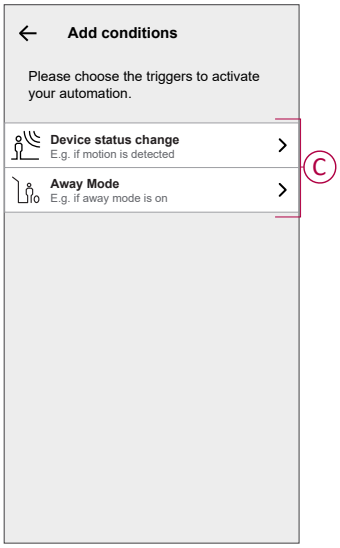
1. On the **Home** page, tap .
2. Go to **Automation** > to create an automation.

   NOTE: Max. 10 automations can be added
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.

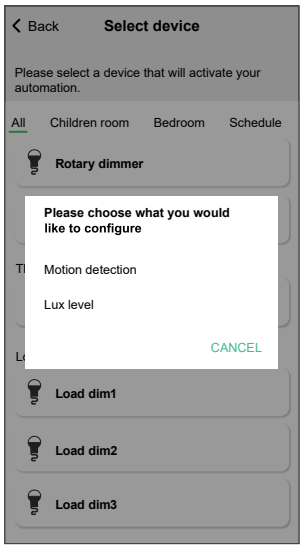


4. Tap **Add conditions** and select any of the following (C):
   - **Device status change**: Select a device to enable automation.
   - **Away Mode**: **Enable** / **Disable** away mode to trigger an action.

     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.



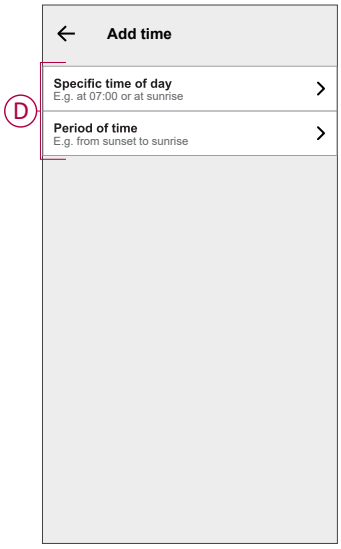
5. Tap **Device status change** > **Motion Sensor** and select any of the following:
   – **Motion detection**: Select motion state **Detected** / **Not Detected**.
   – **Lux level**: Select room brightness level **Very bright** / **Bright** / **Dark** / **Very dark**.



NOTE: .

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

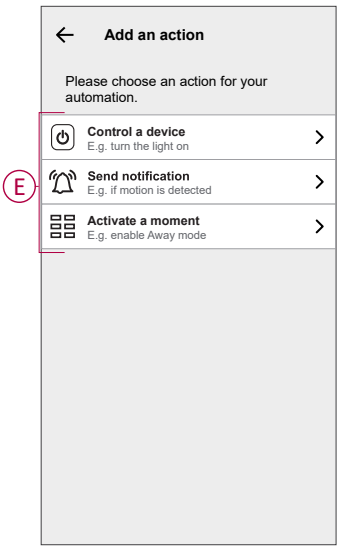
6. To set a specific time for your automation, tap **When** > **Add time** and select any of the following (D):
   – **Specific time of the day: Sunrise, Sunset, Custom**
   – **Period of time: Daytime, Night time, Custom**



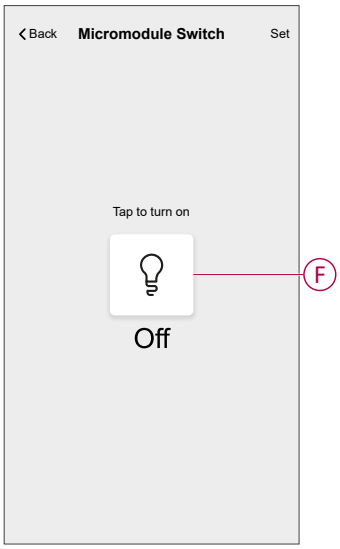
NOTE:

- Max. 10 entries can be added.
- To remove a specific time, swipe left and tap .

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



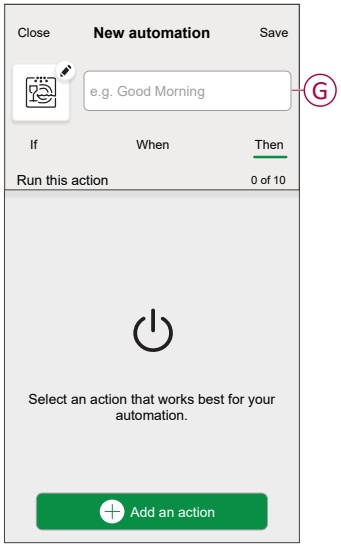
8. Tap **Control a device** > **Micromodule Switch**, then tap (F) to turn on/off, then tap **Set**.



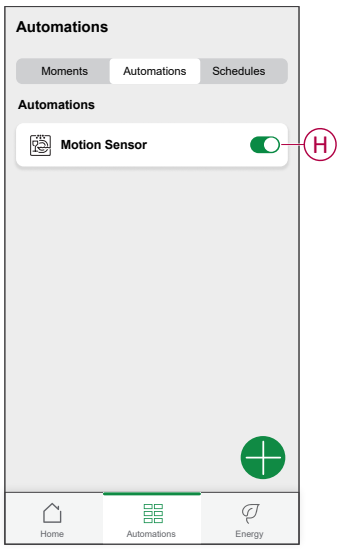
NOTE:

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

9. Enter the automation name (G) .
   You can choose the cover image that represents your automation by tapping .



10. Tap **Save**.
    Once the automation is saved, it is visible on the **Automation** tab.
    Using the (H) you can enable or disable the automation.

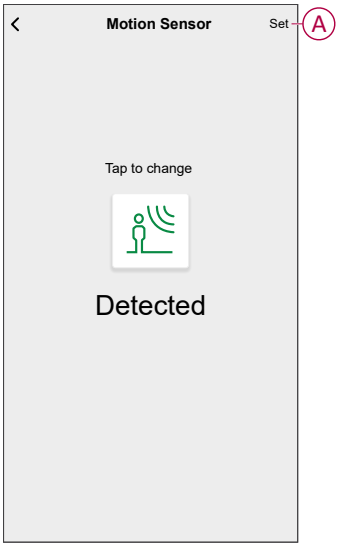


Example of an automation

This demonstration shows you how to create automations that turn on lights with a 50% brightness level when a motion is detected and turn off when motion is no longer detected.

NOTE: It is mandatory to create two automations. First, turn on the dimmer light with 50% brightness when motion is detected. Second, turn off the dimmer light when the motion is no longer detected.
The dimmer will not turn off automatically until you create another automation.

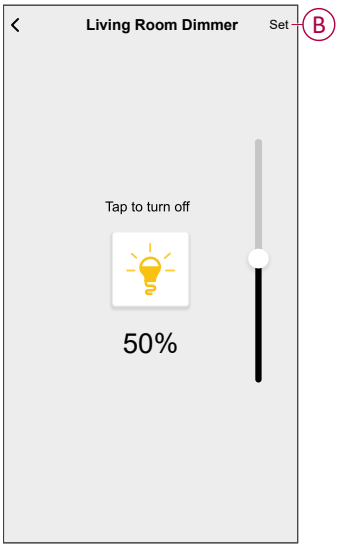
1. On the Home page, tap .
2. Tap **Automations** > to create an automation.
3. Tap **Add conditions** > **Device status change** and find your sensor from the list of devices.
4. Tap **Motion Sensor** > **Motion detection** > **Detected** > **Set** (A).



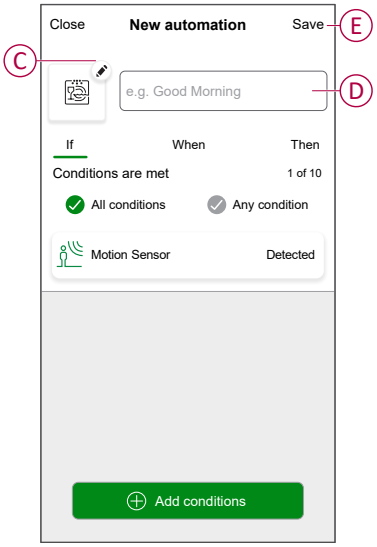
NOTE: No need to set **When** condition because dimmer turns on when motion is detected.

5. To add an action, tap **Then** > **Add an action** > **Control a device** > **Dimmer**.
6. Set the brightness to 50% using the sliding bar and tap **Set** (B).

TIP: Adding the brightness level will turn on the light when the automation is triggered. You need not add a task to turn on the Dimmer separately.



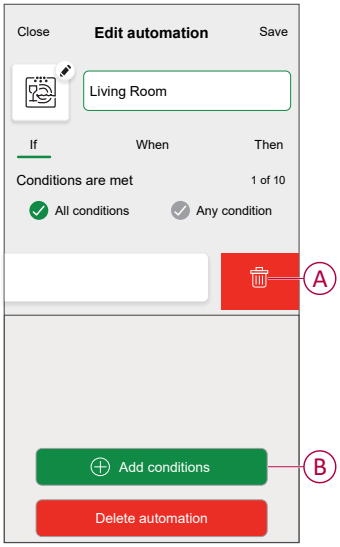
7. You can choose the cover image that represents your automation by tapping (C).
8. Enter the name of the automation (D) and tap **Save** (E).



Once the automation is saved, it is visible on the Automation tab. You can tap the toggle switch on the automation to enable it.

Editing an automation

1. On the **Home** page, tap **Automations** .
2. Go to **Automation**, tap the automation you want to edit.
3. 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.

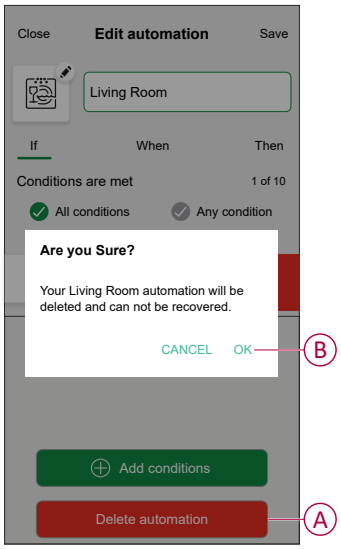


4. Tap **Save** , to save the changes.

Deleting an automation

1. On the **Home** page, tap **Automations** .
2. 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).



Replacing the batteries

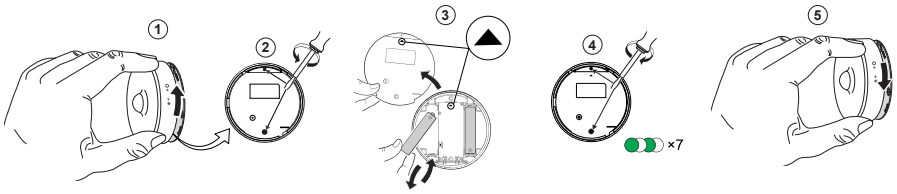
To replace the batteries:

1. Rotate the sensor counterclockwise to unlock it from the base plate.
2. Remove the screws from the battery cover to access the batteries.
3. Replace the batteries with proper polarity and then re-install the battery cover.

   The LED blinks green seven times and then stops blinking.

   NOTE: Make sure that the triangle mark on the battery cover and sensor are aligned.
4. Tighten the screw that holds the sensor and its battery cover.
5. Position the sensor on the base plate and then rotate it clockwise until it locks onto the base plate.

   IMPORTANT: Dispose used batteries, as per statutory regulations.



Resetting the device

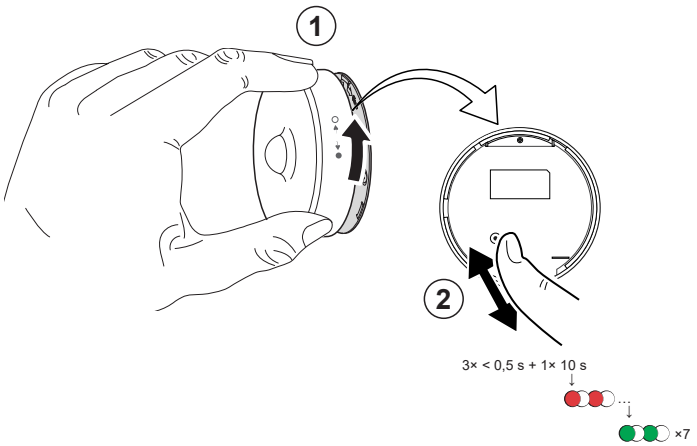
You can reset the sensor to factory default manually.
To reset the sensor:

1. Rotate the sensor counterclockwise to unlock it from the base plate.

2. Short-press the function key three times (<0.5 s) and then long-press the function key once (>10 s); the LED blinks red after 10 s, then release the function key.

   Upon successful reset of the sensor, the LED stops blinking. The sensor restarts and blinks green for a few seconds.

   NOTE: After reset, the LED turns off to save the battery.



LED Indications

Initial Stage

Action	LED Indication	Status
Green LED blinks 7 times (1 Hz)	→ **(7x)** →	After the sensor is powered On for the first time or after the batteries were replaced.

If not paired yet

Action	LED Indication	Status
Amber LED blinks (1 Hz)	→ **(2 min)** → → **(3 sec)** →	Indicates the pairing mode after function key is pressed 3 times within 1 second. If pairing is not successful, the amber LED is On for 3 seconds and then turns Off.
Green LED is On for 3 seconds	→ **(3 sec)** →	Pairing was successful.

If already paired

Action	LED Indication	Status
Green LED blinks 5 times (1 Hz)	→ **(5x)** →	The sensor is paired and connected.
An amber LED blinks for three seconds (4 Hz)	→ **(3 sec)** →	The sensor is paired, but disconnected.

Reset - After pressing the function key 3 times within 0.5 seconds and then hold for 10 seconds

Action	LED Indication
The red LED blinks for 10 seconds, remains on for 3 seconds, and then turns off. The sensor then restarts and blinks green for a few seconds.	→ **(10 sec)** → → **(3 sec)** → →

Battery level

LED Indication	Status
LED blinks amber once per minute. 	The battery is low (< 10%), replace the battery, page 24. **NOTE:** A notification pop-up will appear on the app.

Troubleshooting

Symptom	Possible cause	Solution
The sensor triggers the automation/ schedule, but does not show the status on the app.	The sensor may be undergoing an over-the-air (OTA) firmware update.	Wait for the firmware update to complete and then check that the sensor is reporting status. **NOTE:** The firmware update runs in the background.
LED blinks amber.	The sensor battery is low or drained.	Replace the battery in the device, page 24 **NOTE:** A notification pop–up will appear on the app.

Technical Data

Battery	3 VDC, LR03 AAA x2
Battery life	Up to 5 years (may vary based on the usage, frequency of firmware update and environment)
Nominal power	≤90 mW
IP rating	IP20
Operating frequency	2405 – 2480 MHz
Max. radio-frequency power transmitted	≤7 dBm
Operating temperature	-10 °C to 50 °C
Relative humidity	10 % to 95 %
Lux measurement range	0 lx to 2000 lx
Lux resolution	1 lx
Dimensions	Ø 75.0 x 26.6 mm
Communication protocol	Zigbee 3.0 certified
Ceiling mounted at 2.5 m	
Detection angle	360°
Detection range	Ø 4 m
Wall mounted at 1.2 m	
Detection angle	90° to 110° horizontal and vertical
Detection range	5 m in radius

Compliance

RCM	
Safety	IEC 60730-2-9
EMC	EN IEC 60730-2-9
Radio	EN 300 328
EMR	EN 62479

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_Motion_Sensor_WHP-00