

ELKO - SmartSensor PIR wireless

Wiser Home Device user guide

Information about features and functionality of the device.

10/2025



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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.

About the Document

Document Scope

This document provides detailed information on the features and functionality of the ELKO - SmartSensor PIR Wireless, including installation, pairing with the Wiser Hub, configuring settings, and using the device. Additionally, it includes troubleshooting tips, technical data, compliance information, and instructions for resetting the device.

Validity Note

The characteristics of the products described in this document are intended to match the characteristics that are available on elko.no. As part of our corporate strategy for constant improvement, we may revise the content over time to enhance clarity and accuracy. If you see a difference between the characteristics in this document and the characteristics on elko.no, consider elko.no to contain the latest information.

For your safety

<i>NOTICE</i>
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.

General Cybersecurity Information

In recent years, the growing number of networked machines and production plants has seen a corresponding increase in the potential for cyber threats, such as unauthorized access, data breaches, and operational disruptions. You must, therefore, consider all possible cybersecurity measures to help protect assets and systems against such threats.

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 - [Access the cybersecurity posture.](#)
 - [Learn more about cybersecurity in the cybersecurity academy.](#)
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Find and download comprehensive environmental data about your products, including RoHS compliance and REACH declarations as well as Product Environmental Profile (PEP), End-of-Life instructions (EOLi) and much more.

<https://www.se.com/myschneider>



General information about Schneider Environmental Data Program

Click the link below to read about Schneider Electric's Environmental Data Program.

<https://www.se.com/ww/en/about-us/sustainability/environmental-data-program/>



Declaration of Conformity

Hereby, Schneider Electric Industries SAS, declares that this product is in compliance with the essential requirements and other relevant provisions of RADIO EQUIPMENT DIRECTIVE 2014/53/EU.

Declaration of conformity can be downloaded on:

- <https://www.go2se.com/ref=EKO07220>

Available Languages of the Document

The document is available in these languages:

- English
- Norwegian

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ELKO - SmartSensor PIR Wireless



EKO07220

About the device

The ELKO - SmartSensor PIR Wireless (hereinafter referred to as **sensor**) detects nearby movement and measures the luminance of the environment.

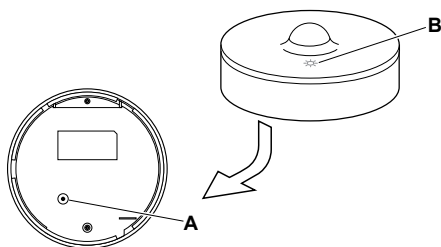
The sensor sends the data to the **Wiser Hub**. The threshold of luminance settings and/or detection of movement can be configured in the Wiser app.

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

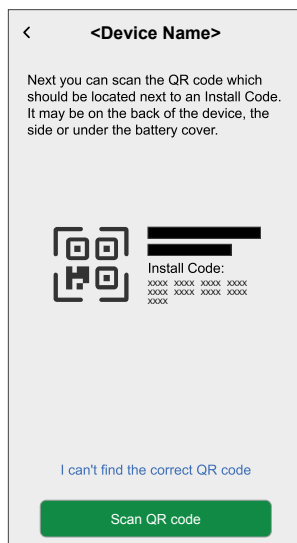
Refer to the installation instruction supplied with this product.
See SmartSensor PIR wireless

Pairing the device with the Wiser Hub

Using the Wiser Home app, pair your device with the **Wiser Hub**.

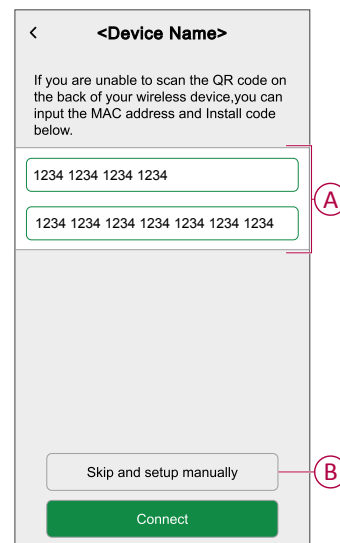
1. On the Home screen, tap .
2. Tap **Devices** >  > **Safety and Security** > **Motion Sensor**.
TIP: You can also navigate by tapping **Control** >  > **Safety and Security** > **Motion Sensor**.
3. Tap **Scan QR code** and allow the Wiser Home app to access your camera. Then, scan the QR code located 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.

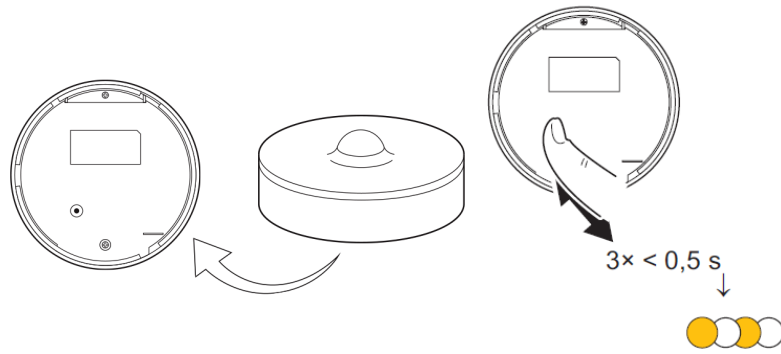


If the QR code is incorrect, a message **Incorrect QR code scanned** will appear. Tap **I can't scan the QR code** and choose one of the following options:

- **(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. Tap **Next**, short press the function key 3 times and make sure that the LED blinks amber.



Wait for a few seconds until the LED turns green and the app confirms that the device is joined.



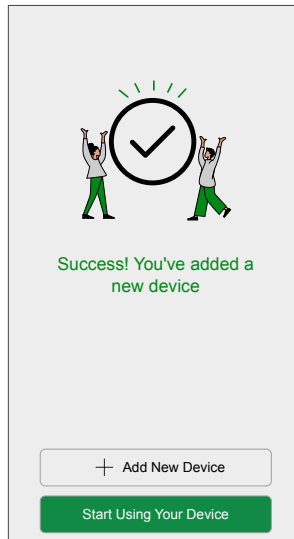
5. Tap ,  to enter the name of the sensor.

6. Tap **Next** and assign the device to a new room or an existing room and tap **Submit**.

IMPORTANT: The next screen shows the **Device Settings** page, where you have the option to configure the settings during the pairing process or at a later time. If you prefer to configure it later, tap **Submit**. For more information on device settings, refer to [Configuring the device](#), page 13 section.

After you pair the device, a success screen appears with the following options:

- **+ Add New Device:** Tap to continue pairing more devices.
- **Start Using Your Device:** Tap to start using the paired device.



NOTE: The success screen appears only if you are logged in as a **Home Owner**.

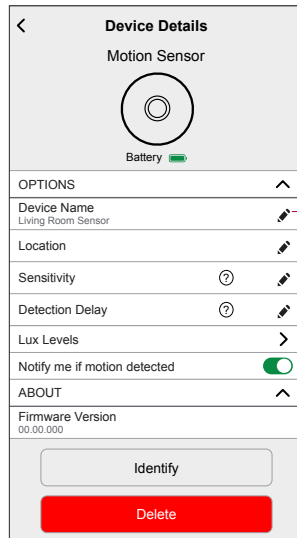
Now, you can see the newly added sensor on the **Control** tab under the **All** and **Room** tabs.

Configuring the device

Renaming the device

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

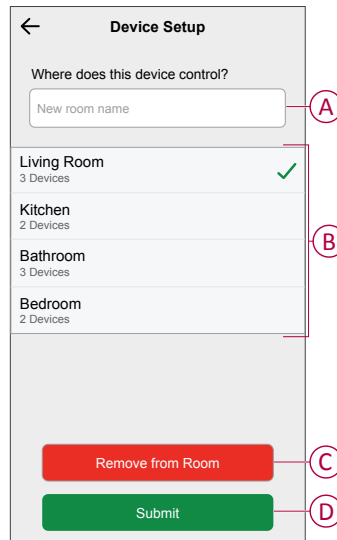
TIP: Additionally, you can rename the sensor by tapping on the Control tab **Motion Sensor > Device settings > Device Name (A)**.



Setting the device location

You can add your device to any room (such as bedroom, living room, dining room etc.).

1. On the **Home** screen, tap .
2. Tap **Devices**, select the device from the list for which you wish to change the location.
3. Tap **Location**  to open setup screen.
4. On the **Device Setup** screen, 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

Sensitivity level indicates how responsive the sensor is to detecting movement.

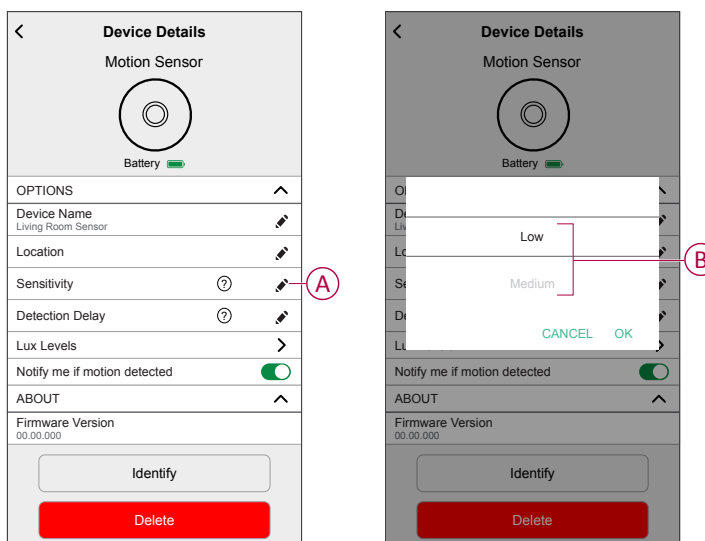
1. On the Home screen, tap .
2. Tap **Devices > Motion Sensor > Sensitivity** (A) to select one of the following option (B):

- **Low**
- **Medium**
- **High**

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

TIP:

- Additionally, you can change the sensor sensitivity levels by tapping on the Control tab **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

Detection delay is the time taken by the sensor to respond after motion is detected.

1. On the Home screen, tap .

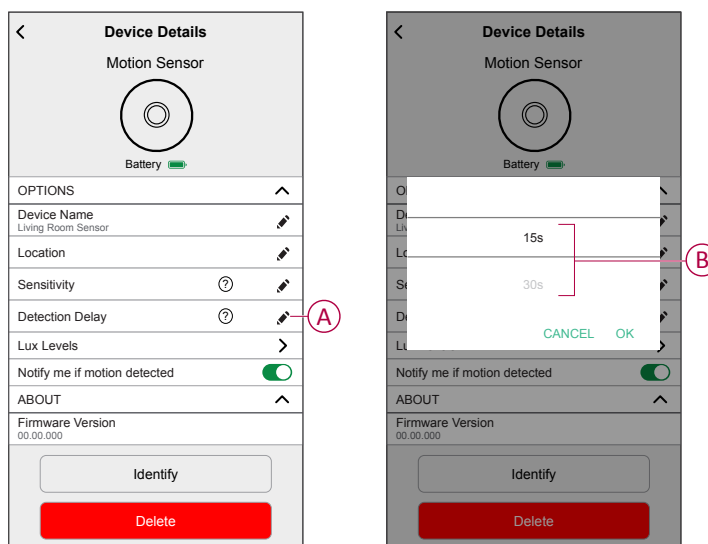
NOTE: Before applying the new settings, please wake up the sensor (press the function key or simulate the motion).

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 Control tab **Motion Sensor > Device settings > Detection delay** (A).

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



3. Tap **Done**.

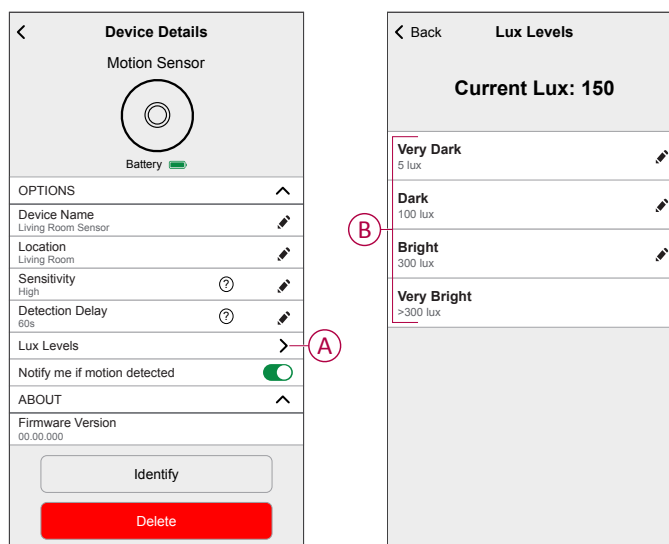
Defining Lux setting

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.

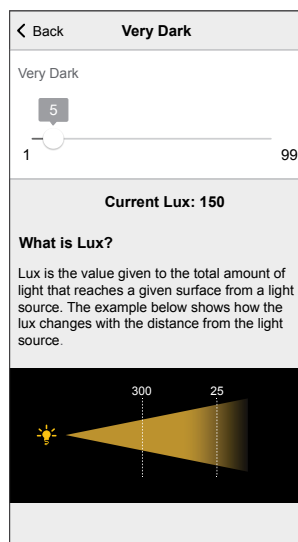
1. On the Home screen, tap .
2. Tap **Devices > Motion Sensor > Lux levels** (A) to select and define threshold value one of the following option (B):
 - **Very dark**
 - **Dark**
 - **Bright**
 - **Very bright**

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

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



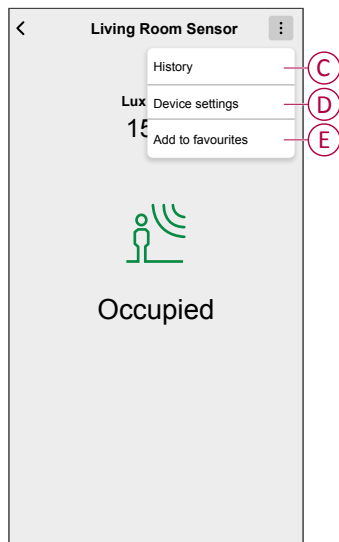
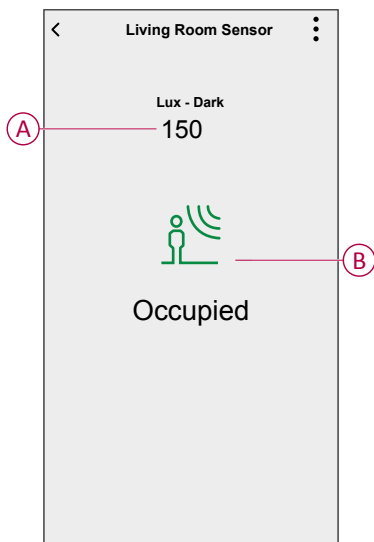
NOTE: In the sensor, the lux value is predefined by default. However, you can change the lux value using the sliding bar; for example, see **Very Dark**.



Using the device

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

1. On the **Control** tab, tap **All** devices or a room tab where the sensor is located.
2. On the Sensor control panel page, you can see the following:
 - Current lux level (A)
 - Motion detection status (B)
 - History (C)
 - Device settings (D)
 - Add to favourites (E)



Checking the device history

Using the Wiser Home app, you can view the sensor 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 disappear in the history.

1. On the **Control** tab, tap **All** devices or a room tab where the sensor is located.
2. On the device control panel page, tap **History**.

TIP: The logged event appears on the history page, even if the motion notification switch, page 20 is toggled off on the device details page.

< History	
TODAY	
08:30:25	Occupied
09:42:42	Occupied
14:21:35	Occupied
YESTERDAY	
09:21:42	Occupied
11:42:42	Occupied
10TH DECEMBER 2021	
05:21:42	Occupied
06:42:42	Occupied
09TH DECEMBER 2021	
11:21:42	Occupied
Load More	

Setting device notification

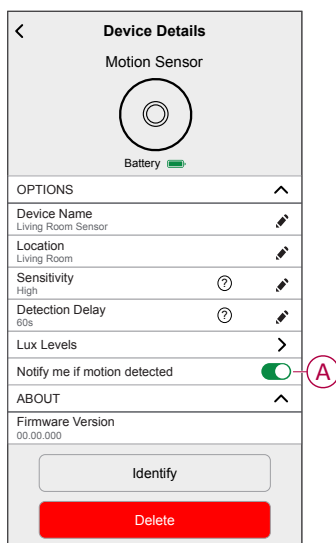
Using the Wiser Home app, you can enable or disable the sensor notification in your smartphone.

1. On the Home screen, 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 Control tab **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 among the available devices in the room.

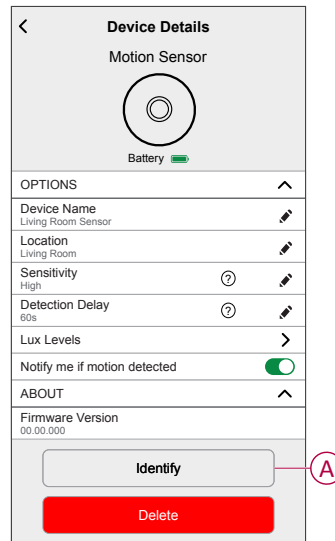
1. On the Home screen, tap .

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 Control tab **Motion Sensor > Device settings > Identify (A)**.

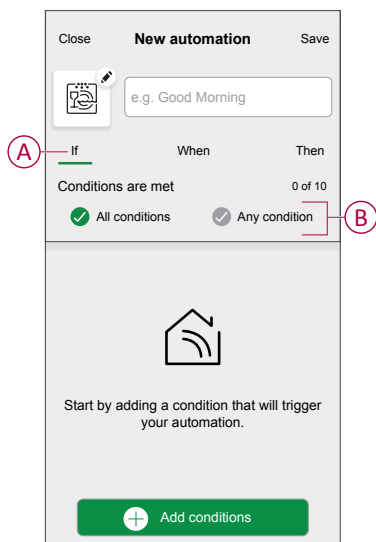
NOTE: The sensor LED blinks to identify the sensor and continues blinking green until you tap **Ok**.



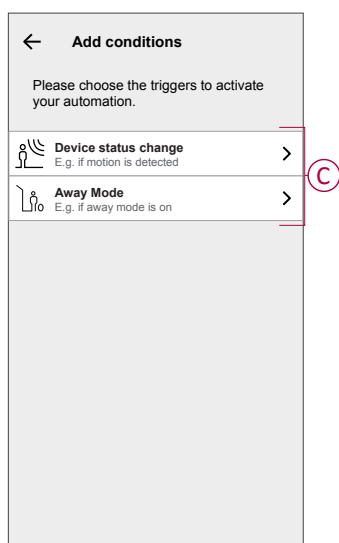
Creating an automation

An automation allows you to group multiple actions that are usually done together, triggered automatically or at scheduled times. By using the Wiser app, you can create automations based on your needs.

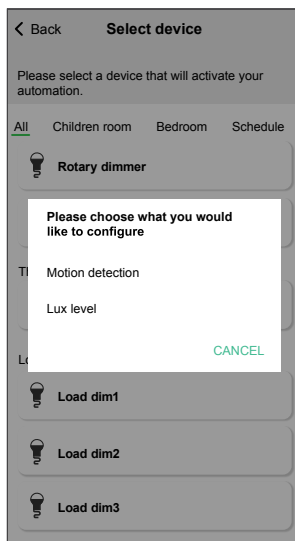
1. On the **Home** screen, tap .
2. Go to **Automation** >  to create an automation.
3. Tap **If** (A) and select any of the following conditions (B):
 - **All conditions:** This triggers an action only when all conditions are met.
 - **Any condition:** This triggers an action when at least one condition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



4. Tap **Add conditions** and select any of the following options (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. Refer to the *Away Mode* topic in the respective System User Guide.



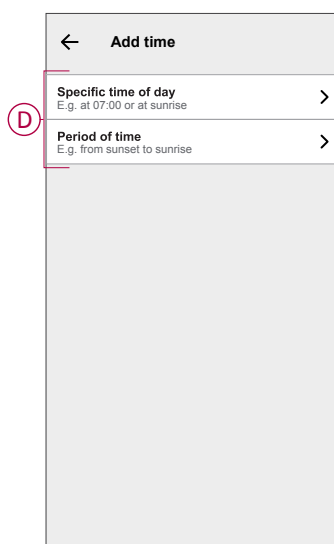
5. Tap **Device status change > Motion Sensor** and select any of the following options:
- **Motion detection:** Select motion state **Detected / Not Detected**.
 - **Lux level:** Select room brightness level **Very bright / Bright / Dark / Very dark**.



NOTE:

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

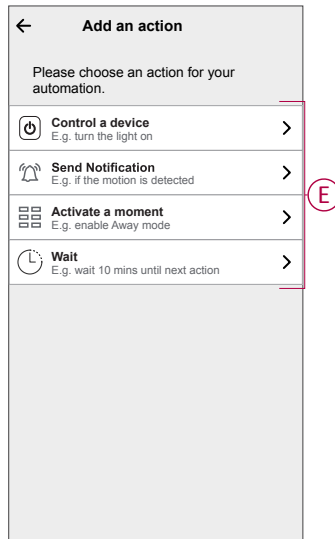
6. To set a specific time for your automation, tap **When > Add time** and select any of the following options (D):
- **Specific time of day:** The automation will trigger at a specific time of the day, such as at sunrise, sunset, or at 8:00 AM.
 - **Period of time:** The automation will be trigger during time periods such as from sunrise to sunset, from sunset to sunrise, or from 8:00 AM to 5:00 PM.



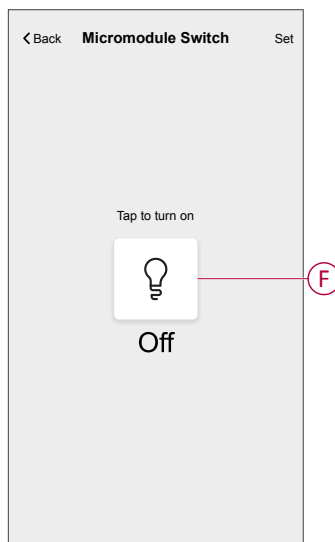
NOTE:

- Maximum 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 options (E):
- **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.
 - **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.



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

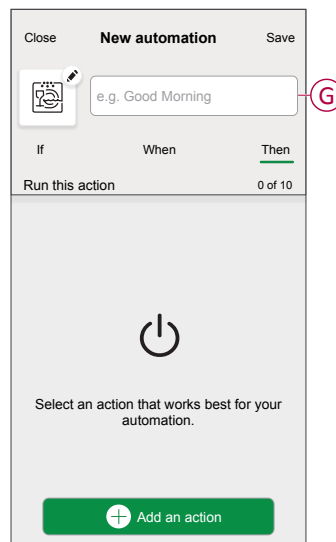


NOTE:

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

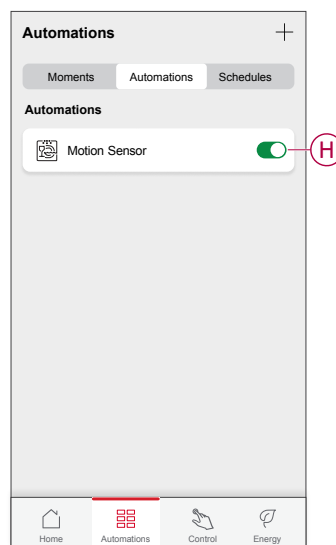
9. Enter the automation name (G) .

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 toggle switch  (H), you can enable or disable the automation.



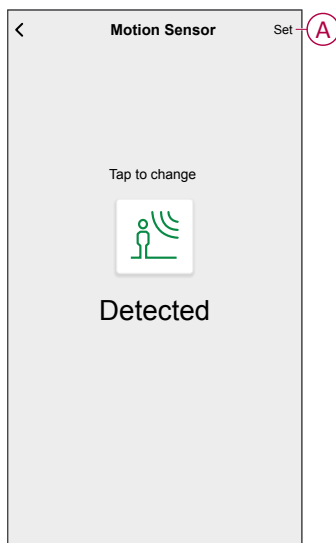
Example of an automation

This demonstration shows you how to create an automation that turns ON the light in the entrance room at 50 % brightness when motion is detected and a one-minute delay before turning ON the living room light.

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.

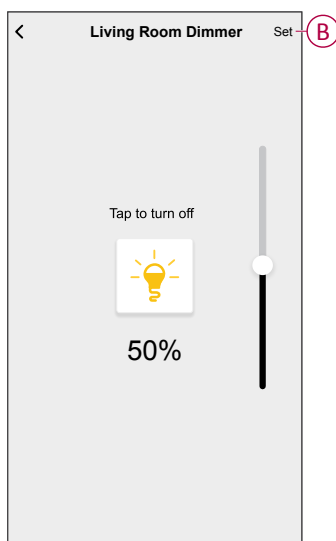
1. On the Home screen, tap .
2. Tap **Automations** >  to create an automation.
3. Tap **Add conditions** > **Device status change** and find your sensor from the list of devices.
4. Tap **Motion Sensor** > **Motion detection** > **Detected** > **Set (A)**.



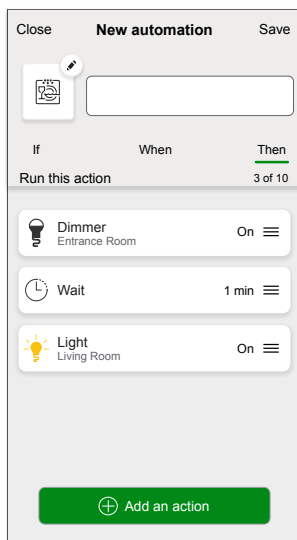
NOTE: No need to set **When** condition because dimmer turns on when motion is detected.

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)**.

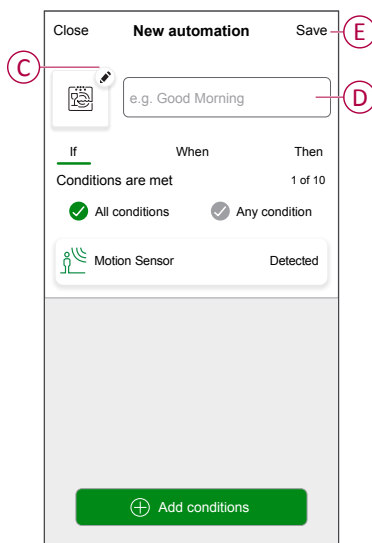
TIP: Adding the brightness level will turn on the light when the automation is triggered. You need not add a task to turn on the Dimmer separately.



7. Tap **Add an action > Wait**.
The Add a Wait screen appears.
8. Select a one-minute time delay duration to trigger an action and tap **Set**.
9. Tap **Add an action > Control devices > Light**.
10. Tap to turn ON the light.



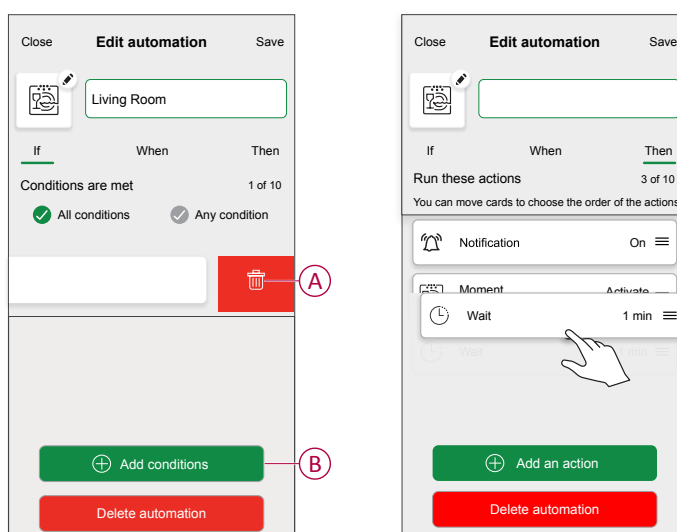
11. You can choose the cover image that represents your automation by tapping  (C).
12. Enter the name of the automation (D) and tap **Save** (E).



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** screen, tap **Automations** .
2. Go to **Automation**, tap the automation you want to edit.
3. On the **Edit automation** screen, you can perform the 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.

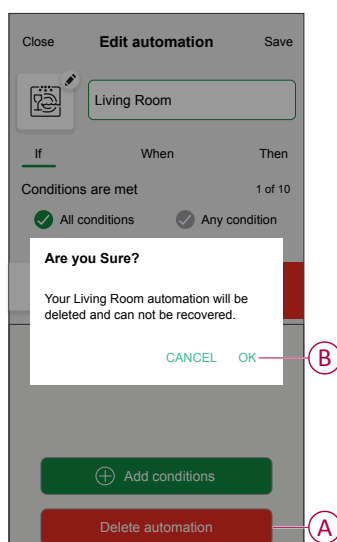


4. Tap **Save** to save the changes.

Deleting an automation

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

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

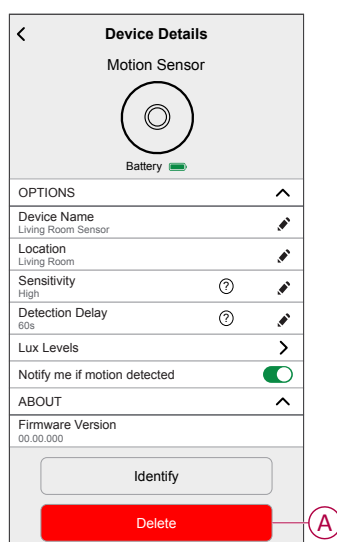


Removing the device

Using the Wisir Home app, you can remove the sensor from the Wisir system.

- On the Home screen, tap .
- Tap **Devices > Motion Sensor > Delete** (A).

TIP: Additionally, you can remove the sensor from the Wisir system by tapping on the Control tab **Motion Sensor > Device settings > Delete** (A).



- Read the confirmation message and tap **Ok** to remove the sensor from the Wisir system.

NOTE:

- Removing the sensor will reset the sensor. After resetting, the LED blinks amber indicating that the sensor is ready for pairing.
- If there is a problem while pairing or resetting the sensor, refer to [Resetting the device](#), [Resetting the device](#), page 30.

Resetting the device

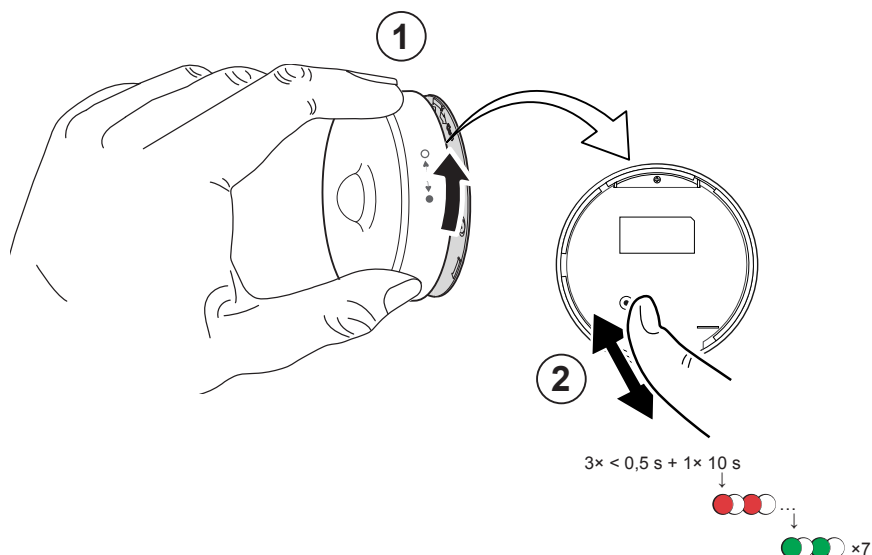
You can reset the sensor to factory default manually.

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.



Replacing the batteries

To replace the batteries:

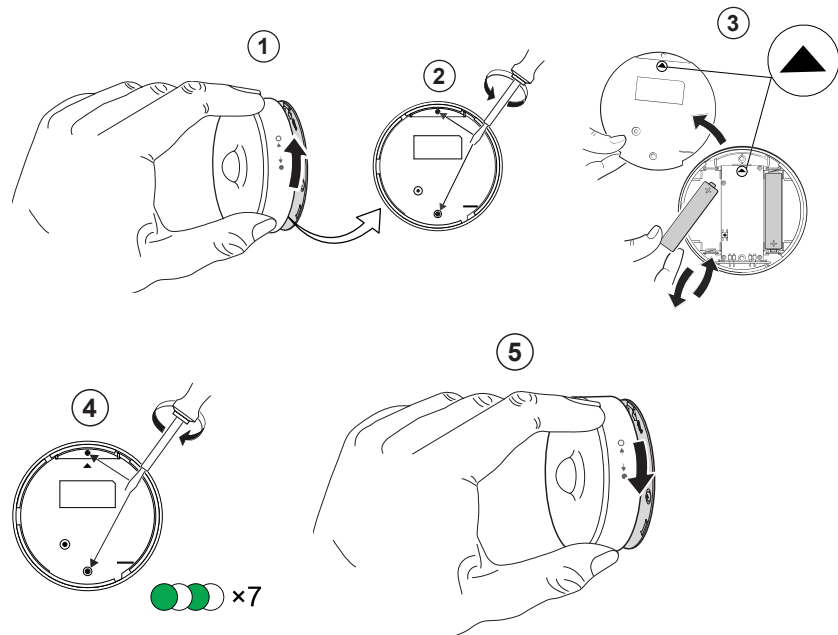
1. Rotate the sensor counterclockwise to unlock it from the base plate.
2. Remove the screws from the battery cover to access the batteries.
3. Replace the batteries with proper polarity and then re-install the battery cover.

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.



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
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 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 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 once per minute. 	The battery is low (< 10 %), replace the battery, page 31. 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	The sensor battery is low or drained.	Replace the battery in the device, page 31 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

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As standards, specifications, and design change from time to time, please ask for confirmation of the information given in this publication.

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DUG_SmartSensor PIR Wireless_WH-00