

# SmartRelay Puck 10AX

## Device User Guide

Commissioning instructions for the ELKO Smart system, devices and app.

02/2023



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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.

# SmartRelay Puck 10AX



EKO07144

## 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.
- The switch contact and live conductor connection must be separated from one another by a 240 VAC basic insulation.

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

### **⚠ WARNING**

#### **HAZARD OF ELECTRIC SHOCK**

- Observe the regulations for working on live parts.
- Only actuate the device buttons using insulated auxiliary equipment that meets the requirements of EN 60900.

**Failure to follow these instructions can result in death, serious injury, or equipment damage.**

## About the device

The SmartRelay Puck 10AX (hereinafter referred to as **Puck / Micro Module Switch**) combines the advantages of smart switch functionality with ordinary mechanical push-button switches. It transforms a conventional switch into a connected device that can be controlled from the switch or through the ELKO Smart app. It can switch ohmic, inductive or capacitive loads.

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

Additional features:

- Remote controlled with maximum of 10 mechanical push-buttons.
- Setting a time schedule.

## Installing the device

Refer to the installation instruction supplied with this product.  
See SmartRelay Puck 10AX.

## Testing the device

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

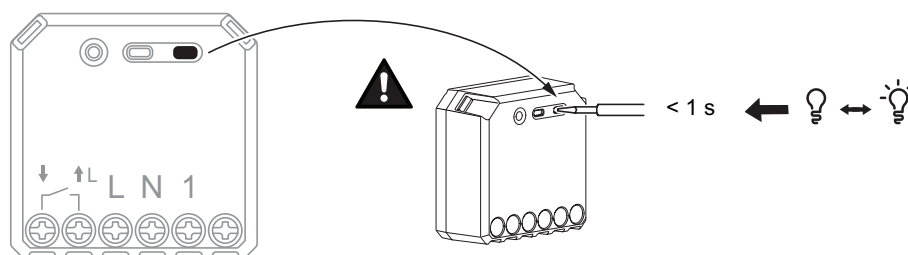
### ⚠ WARNING

#### HAZARD OF ELECTRIC SHOCK

- Observe the regulations for working on live parts.
- Only actuate the device buttons using insulated auxiliary equipment that meets the requirements of EN 60900.

**Failure to follow these instructions can result in death, serious injury, or equipment damage.**

Short press the test button once, the connected device turns on/off.




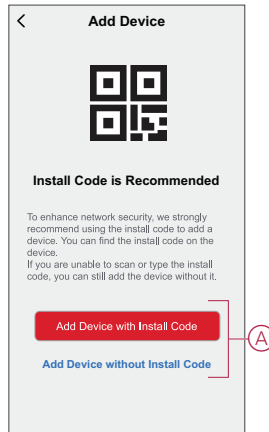
## Pairing the device with Smart Hub

Using the ELKO Smart app, first pair your device with the **ELKO SmartHub** to access and control the device. You can either add the device manually or do an auto-scan to pair it.

## Pairing device manually

To pair the device manually:

1. On **Home** page, tap **+**.
2. Tap , select **ELKO SmartHUB** on the slide-up menu and tap **Done**.
3. Select any one of the options to add device (A):
  - **Add Device with Install Code**
  - **Add Device without Install Code**

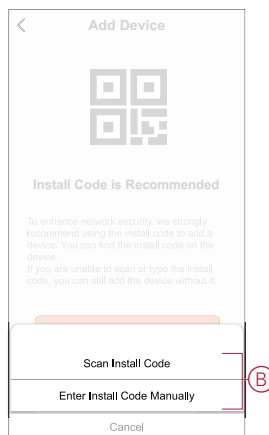


**TIP:** It is recommended to add the device with install code.

4. To pair the device with an install code, tap **Add Device with Install Code** to display the slide-up menu. Select any one of the options (B):
  - **Scan Install Code:** you can scan the device for the install code.
  - **Enter Install Code Manually:** you can manually enter the install code from the device.

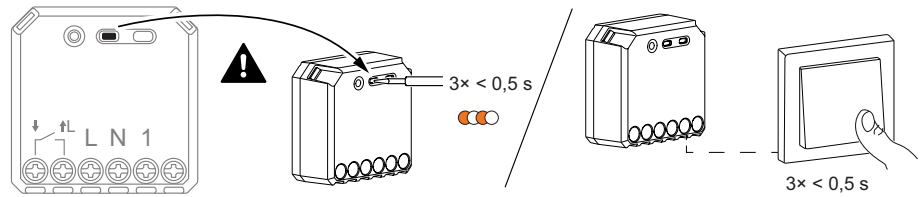
**TIP:** you can find the install code on the rear side of the device.

After scanning or entering the install code, proceed to **Step 7**.



5. To pair the device without install code, tap **Add Device without Install Code**.

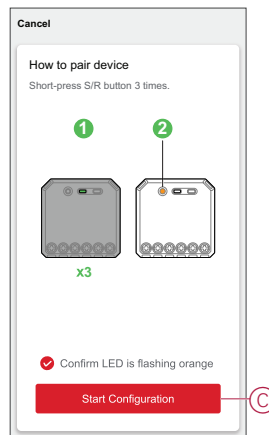
6. Select any one of the options to add the device:
- Short press the S/R (setup/reset) button 3 times (<0,5 s) on the Puck with a screwdriver.
  - Short press the push button 3 times.



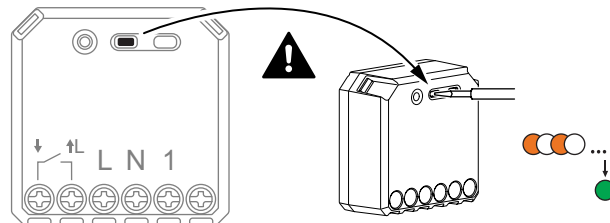
The LED blinks orange.

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

7. In the app, select **Confirm LED is flashing orange** and tap **Start Configuration (C)**.



After a few seconds, a solid green LED indicates that the device has been successfully paired to the **ELKO SmartHUB**.



8. Tap **Done** when the pairing is successful..

## Pairing device with auto scan

Pairing the device with auto scan automatically discovers the device when the corresponding device is powered on.

1. On the **Home** page, tap **+**.
2. Tap **Auto scan > Confirm**.
3. Enable permissions to **Access location** and **Wi-Fi** for scanning device and tap **Start scanning**.

**NOTE:** If you have multiple hubs, do Step 4 or proceed to Step 5.

4. Tap **Select hub** and select the **ELKO SmartHub** from the slide-up menu.

5. Short press the setup/reset button 3 times (< 0,5 s) and wait for a few seconds until the device search is complete.

The LED blinks orange.

**TIP:** If you want to pair multiple devices at once, perform step 5 on each device and wait for a few seconds for them to be detected.

6. Tap **Next** (A) and select **Micromodule Switch**.





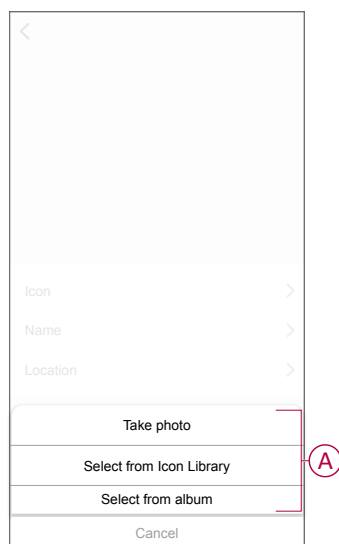
7. Once the device is added successfully, tap **Done**.

## Configuring the device

### Changing the device icon



You can change the device icon using the ELKO Smart app.

1. On the **Home** page, select the device for which you wish to change the icon.
2. At the top-right corner of the screen, tap .
3. Tap edit  next to the device name.
4. Tap **Icon** to view the menu.
5. In the slide-up menu, select any one of the following (A) to change the device icon:
  - **Take photo** - allows you to take a photo with your device camera.
  - **Select from Icon Library**: allows you to select an icon from the app library.
  - **Select from Album**: allows you to select a photo from the mobile gallery.

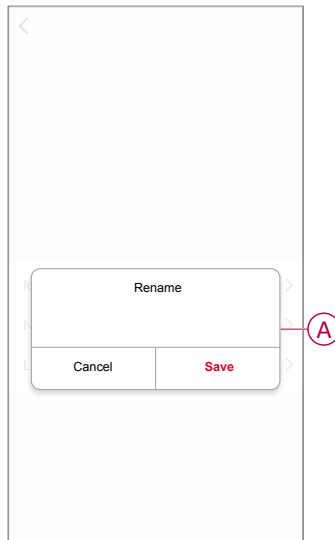


### Renaming the device

You can rename the device using the ELKO Smart app.



1. On the **Home** page, select the device for which you wish to rename.
2. At the top-right corner of the screen, tap .
3. Tap edit  next to the device name.

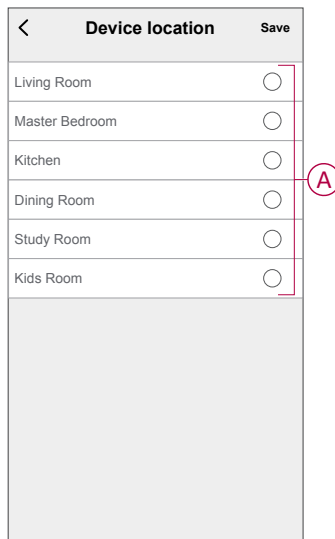
4. Tap **Name**, enter the new name (A) and then tap **Save**.



## Changing the device location


You can change the device location using the ELKO Smart app.

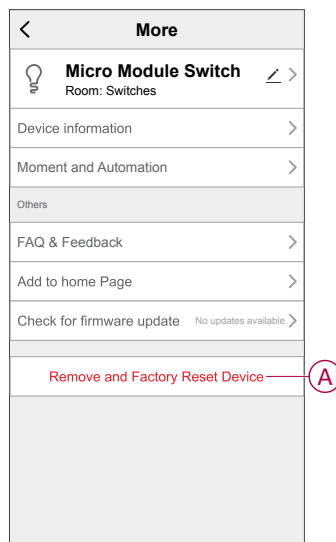
1. On the **Home** page, select the device for which you wish to change the location.
2. At the top-right corner of the screen, tap .
3. Tap edit  next to the device name.
4. Tap **Location**.
5. Select the desired location from the list (A) and then tap **Save**.



## Removing the device

Using the ELKO Smart app, you can remove a device from the device list. To remove the device:

1. On the **Home** page, tap **All devices > Micromodule Switch**.
2. Tap  to display more details.
3. Tap **Remove and Factory Reset Device (A)**.



**TIP:** On the **Home** page, tap and hold the **Micromodule Switch** to remove the device.

**NOTE:**

- Removing the device will reset the puck. After reset the LED turns orange 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 12.

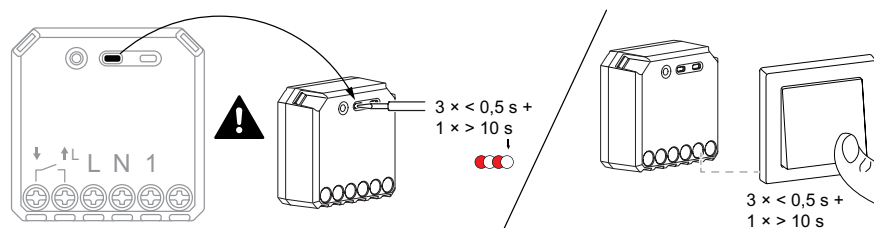
## Resetting the device

You can reset the device to factory default manually.

1. Short press ( $< 0,5$  s) the Setup/Reset button 3 times and then long press the Setup/Reset button once for 10 s to reset the Puck to factory default mode.  
or
2. After 10 s, LED starts blinking red then release the operation button.

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

The LED stops blinking upon successful reset of the device.  
The puck restarts and blinks green for a few seconds.

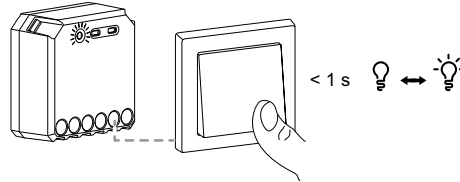


## Using the device

### Manual operation

When the puck is connected to a mechanical push button, the connected devices can be controlled manually by short pressing the push button.

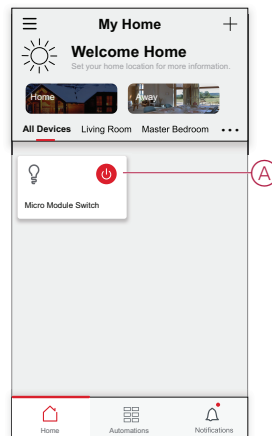
**NOTE:** When the puck is installed inside the wall box, the status LED is not visible while using the puck.



### Turning the light switch on/off using app

Using the ELKO Smart app, you can turn on/off the light switch remotely.

1. On the **Home** page, tap **All devices**.
2. In **Micromodule Switch** tap on  to turn on/off the light switch.



### Setting up a schedule

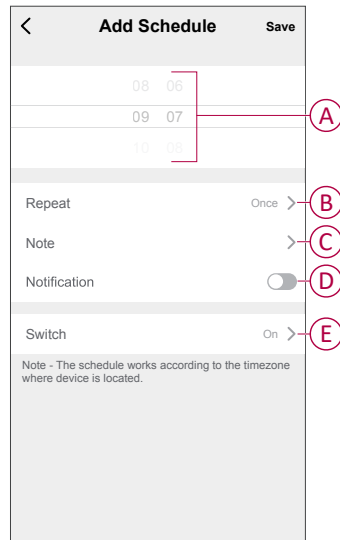
The device can be fully controlled by schedule. Once the schedule is set, the device operates at a given time.

1. In the device control panel, tap **Schedule** > **Add Schedule** to add a schedule.
2. In **Add Schedule** menu, set the time (A).

**NOTE:** The Schedule works according to the time zone where the device is located.

3. Tap **Repeat** (B) to select the days you want to set the schedule.
4. Tap **Note** (C), enter the note and tap **Confirm**.
5. Tap the toggle switch (D) to turn on the **Notification** for the schedule. The app will send a notification that the scheduled task is executed at the scheduled time.




6. Tap **Switch** (E) and select any option, **On** or **Off**.

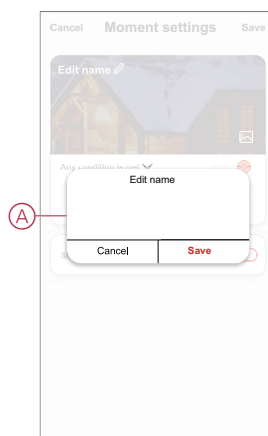


7. Tap **Save**.

## Creating a moment


Moment allows you to group multiple actions that are usually done together. Using the ELKO Smart app, you can create moments based on your needs.

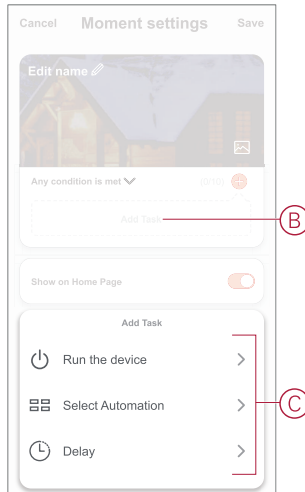
1. On the **Home** page, tap .
2. Go to **Moment** > **+** to create a moment.
3. Tap **Edit name**  (A), enter the name of the moment and tap **Save**.  
**TIP:** You can choose the cover image that represents your moment by tapping .



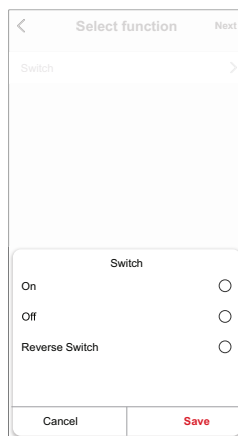
4. In the **Action** section, tap **Add task** (B) to open the slide-up menu.

5. In the **Add task** menu, you can do either or all of the following actions (C):
  - **Run the device:** select the devices that you want in a moment.
  - **Select Automation:** select the automation that you want to enable or disable.
  - **Delay:** set the delay time.

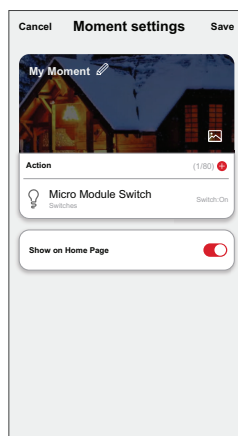
**NOTE:** You can add one or more actions using .



6. Tap **Run the device > Micromodule Switch**.
7. Tap on **Switch** and select either **On / Off / Reverse Switch** and tap **Save**.



8. Tap **Next** and once the actions are set, tap **Save**.




## Editing a moment

To edit a moment:

1. On the **Moment** tab, locate the moment you want to edit and tap ●●●.
2. On the **Edit** page, you can tap each item (such as dimmer, shutter, delay, temperature, etc.) to change the settings.

**TIP:**

- You can add one or more actions using .
- To delete an existing action, slide the each item towards left and tap **Delete**.

## Deleting a moment



To delete a moment:


1. On the **Moment** tab, locate the moment that you want to delete and then tap ●●●.
2. Tap **Delete** and then tap **Ok**.

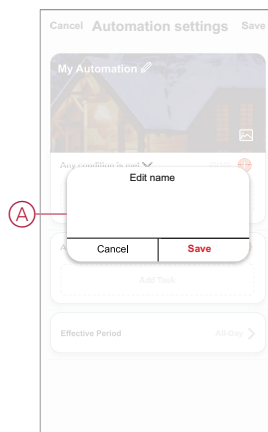
**NOTE:** After deleting a moment, the device action can no longer be triggered.

## Creating an automation

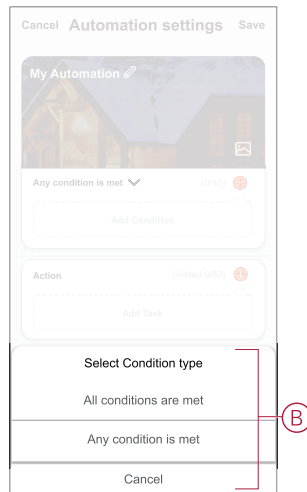
Automation allows you to group multiple actions that are usually done together, triggered automatically or at scheduled times. Using the ELKO Smart app, you can create automations based on your needs.

1. On the **Home** page, tap the .
2. Go to **Automation** > **+** to create an automation.
3. Tap **Edit name**  (A), enter the name of the automation and tap **Save**.


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

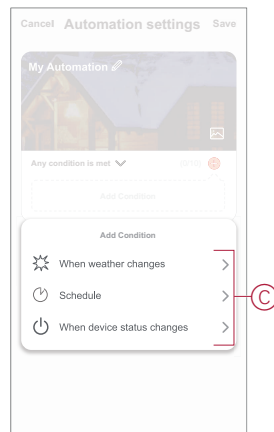


4. Tap **Any condition is met** to select any one of the condition type (B):
  - **All conditions are met**: the automation is triggered when all the conditions are met.
  - **Any condition is met**: the automation is triggered when at least one condition is met.

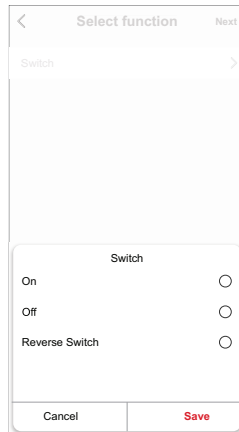


5. Tap **Add Condition** to open the slide-up menu.
6. In the **Add Condition** menu, you can do either or all of the following options (C):
  - **When weather changes**: select the various weather settings.
  - **Schedule**: set the time and day.
  - **When device status changes**: select the device and it's function.


**NOTE:** You can add one or more conditions using .

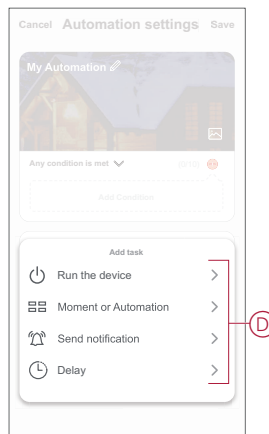


7. Tap **When device status changes** > **Switch** and select either functions:
- **On**: turn on the switch.
  - **Off**: turn off the switch.
  - **Reverse Switch**: toggle the last state of the switch.

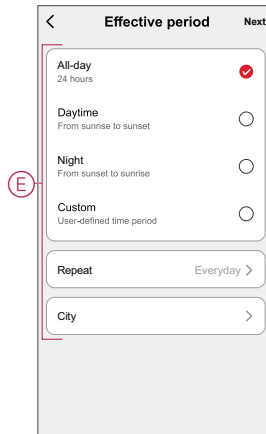


8. Tap **Add task** to open the slide-up menu.
9. In the **Add task** menu, you can do either or all of the following options (D):
- **Run the device**: select the devices that you want to trigger.
  - **Moment or Automation**: select the moment which you want to trigger or select the automation that you want to enable or disable.
  - **Send notification**: turn on notification for the automation.
  - **Delay**: set the delay time.

**NOTE:** You can add one or more actions using .





10. Tap on **Effective period** to set the time range for the automation. You can select any one of the following (E):
  - **All-day** - 24 hours
  - **Daytime** - From sunrise to sunset
  - **Night** - From sunset to sunrise
  - **Custom** - User defined time period

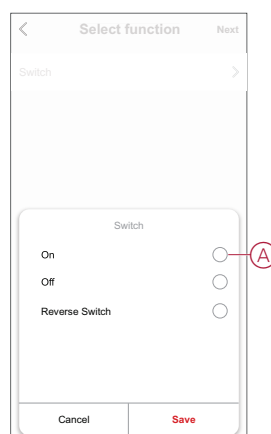


11. Once all the actions and conditions are set, tap **Save**.  
Once the automation is saved, it is visible on the **Automation** tab. You can tap the toggle switch on the automation to enable it.

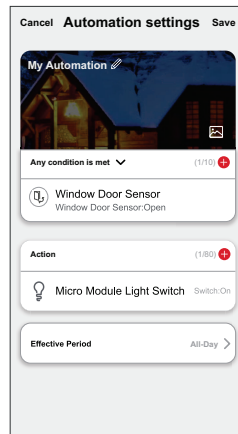
## Example of an automation

This demonstration shows you how to create an automation to switch on the light when the door is opened.

1. Go to **Automation** > **+** to create an automation.
2. Tap **Edit name** , enter the name of the automation and tap **Save**.  
**TIP:** You can choose the cover image that represents your automation by tapping .
3. Tap **Add Condition** > **When device status changes** > **Window/Door Sensor**.
4. Tap **Window/Door Sensor** > **Open**.
5. Tap **Add task** > **Run the device** and select **Micro Module Light Switch**.
6. Tap **Switch** > **On (A)** and tap **Save**.
7. Tap **Next**.



- In the **Automation Settings** page, tap **Save**.




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

To edit an automation:

- On the **Automation** tab, locate the automation you want to edit and tap ●●●.
- On the **Edit** page, you can tap each item (such as dimmer, shutter, delay, temperature, etc.) to change the settings.

### TIP:

- You can add one or more actions using .
- To delete an existing condition or action, slide each item towards left and tap **Delete**.

## Deleting an automation



To delete an automation:

- On the **Automation** tab, locate the automation that you want to delete and then tap ●●●.
- Tap **Delete** and tap **Ok**.



**NOTE:** After deleting an automation, the device action can no longer be triggered.

## LED indication

### Pairing the device

User Action	LED Indication	Status
>Short press the setup/reset button or 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 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 orange indicating that the device is ready for pairing. 

## Troubleshooting

Error	Possible cause	Solution
The device is not ready to pair after the device is removed from the app.	The device is not reset correctly.	Reset to factory default settings, refer to <a href="#">Resetting the device manually</a> , page 12.

## 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 $\mu$ F
	Fluorescent lamp	100 W
	LED	200 W
	Boiler	2000 W
	Room heater	1500 W

<b>Nominal voltage</b>	AC 220-240 V, 50/60 Hz
<b>Nominal current</b>	10 AX
<b>Switching channel</b>	1, dry contact
<b>Standby</b>	Max. 0.3 W
<b>Operating Temperature</b>	0 °C to 35 °C
<b>Neutral conductor</b>	Required
<b>Connecting terminals</b>	Max. 2 x 2.5 mm <sup>2</sup> , solid or stranded types
<b>Extension connection</b>	Max. 10 mechanical push buttons
<b>Length of all cable sections</b>	Max. 50 m for 3-wire NYM cable
<b>Fuse protection</b>	16 A circuit breaker
<b>Operating frequency</b>	2405 - 2480 MHz
<b>Max. radio-frequency power transmitted</b>	<10 mW
<b>IP rating</b>	IP20
<b>Product dimensions (H x W x D)</b>	43 x 43 x 22 mm
<b>Communication protocol</b>	Zigbee 3.0 certified

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