



# qubino<sup>®</sup>

WIRELESS SMART HOME

## USER MANUAL **EN**

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### QUBINO FLUSH 1 RELAY



*The Qubino Flush 1 Relay is ideal for remotely controlling one electrical device (door lock, door openers, small appliances, etc.) or lights.*

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## Where To Buy

To find your nearest Qubino dealer visit: <http://qubino.com/where-to-buy/>

## 1. Introduction

The Flush 1 Relay controls on/off function for one electrical device. It measures power consumption of the connected device and can be paired with a digital temperature sensor (sold separately). It supports push-button/momentary switches and toggle switches (default).



The connection of a digital temperature sensor means you can create complex scenes and control any device relative to a set temperature range. The Qubino Flush 1 Relay also acts as a Z-Wave repeater to improve the range and stability of the Z-Wave network.

## 2. Use Cases

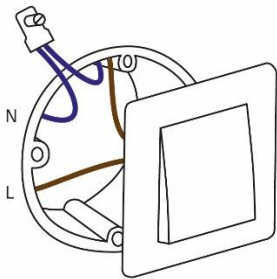
The Flush 1 Relay can be used in many different scenes, which can help make your life more comfortable. We have prepared a few of them for you-so you can get an idea for your next smart home project. Of course, there are countless of other options for how to use Qubino Flush 1 Relay to remotely control devices via your smartphone.

Qubino devices are installed into flush mounting boxes behind the switches. You can see some examples below:

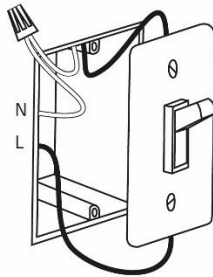
For more information on how to install your device, please refer to the Installation chapter.

There are different switch types in different countries, as for example:

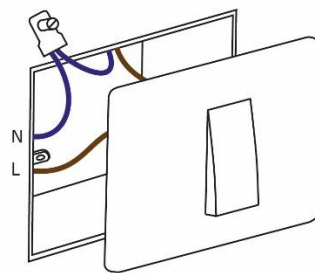
EU example:



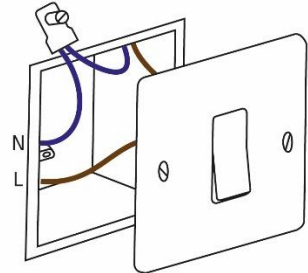
USA example:



ITA/Brasil example:



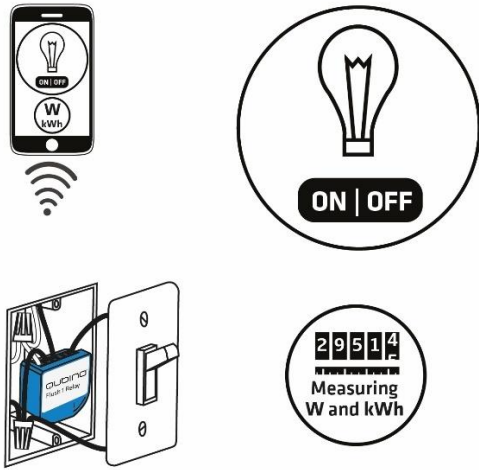
UK example:



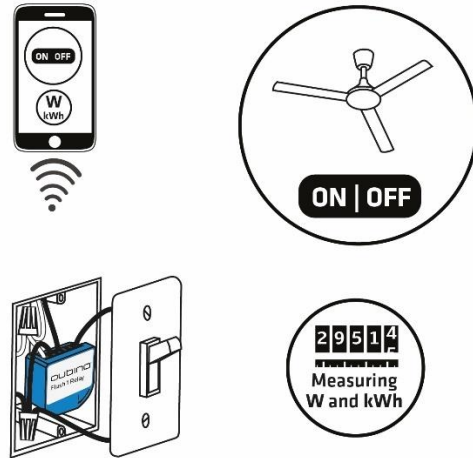
Further in the document you will notice that all the use cases show the USA example switch type. Note that the product works in the same way with EU switch type, ITA/Brazil type, UK type etc.

### 2.1. Installation examples where Flush 1 Relay is installed behind a wall switch

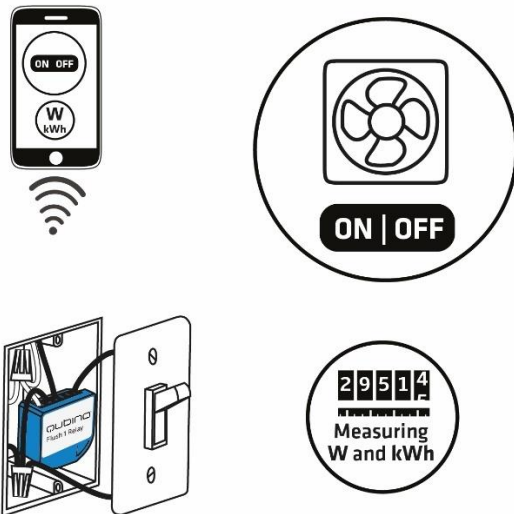
- Remotely control lights



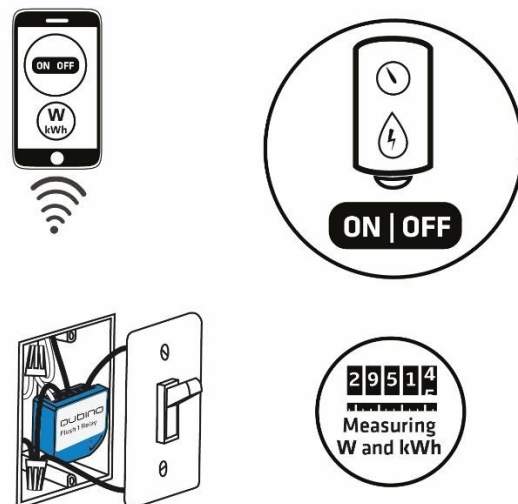
- Remotely control ceiling fans



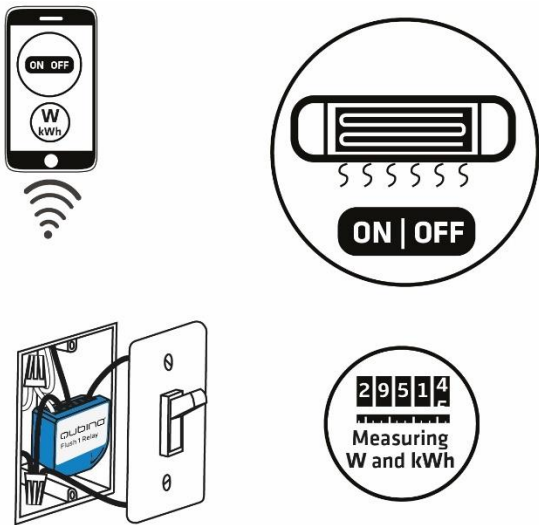
- Remotely control wall-mounted fans



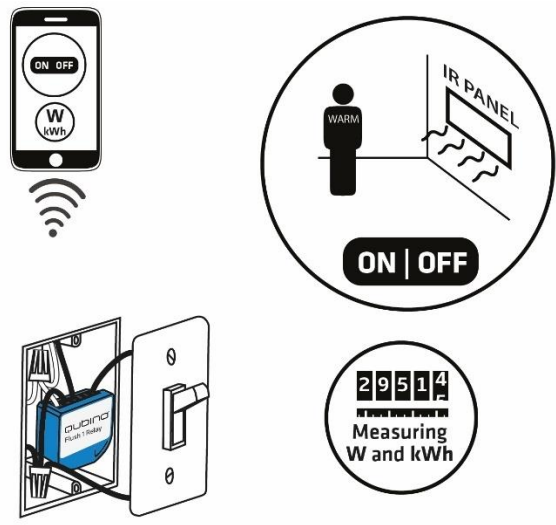
- Remotely control domestic hot water tanks



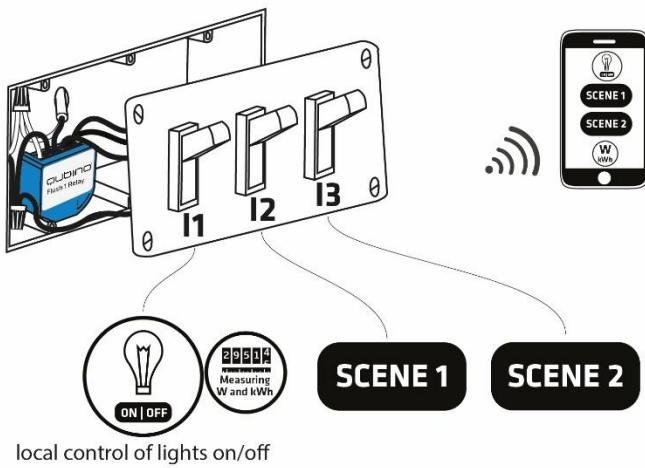
- Remotely control infrared – heater



- Remotely control wall mounted infrared heating panel



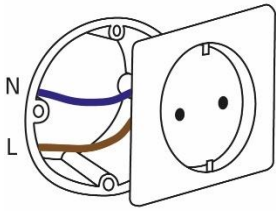
- Remotely trigger different scenes with two additional inputs (I2, I3) – for example scene 1: turn on all the lights in the house, scene 2: turn off all the lights in the house



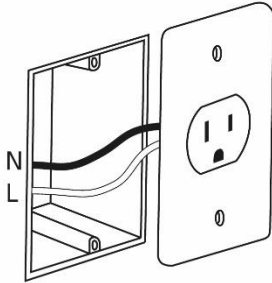
## 2.2. Installation examples where Flush 1 Relay is installed behind a power socket – for switching device on/off and measuring power consumption of the connected device

There are different sockets types in different countries, as for example:

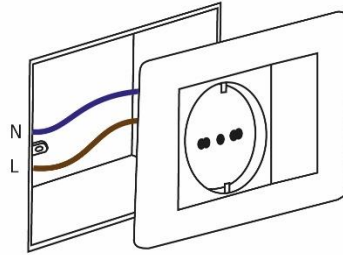
EU example:



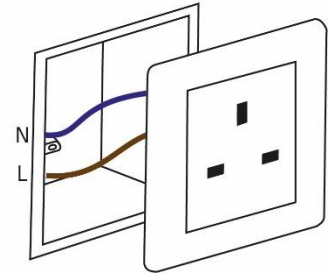
USA example:



ITA/Brasil example:

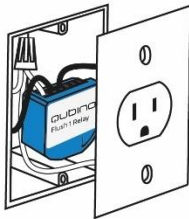


UK example:

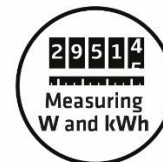


Further in the document you will notice that all the use cases show the USA example socket type. Note that the product works in the same way with EU switch type, ITA/Brasil type, UK type etc.

- Remotely control an oven connected to a power socket

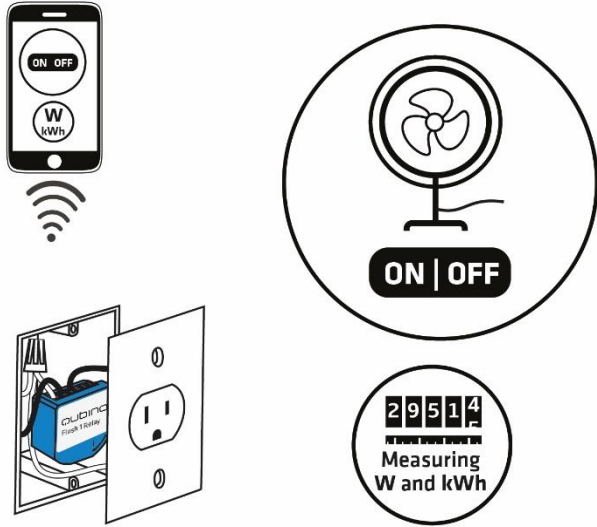


- Remotely control an iron connected to a power socket

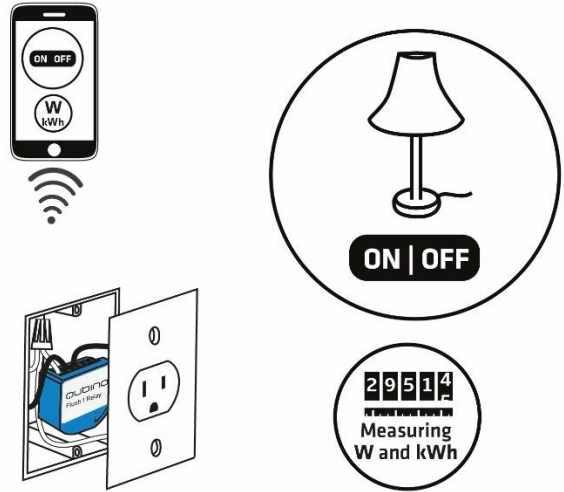




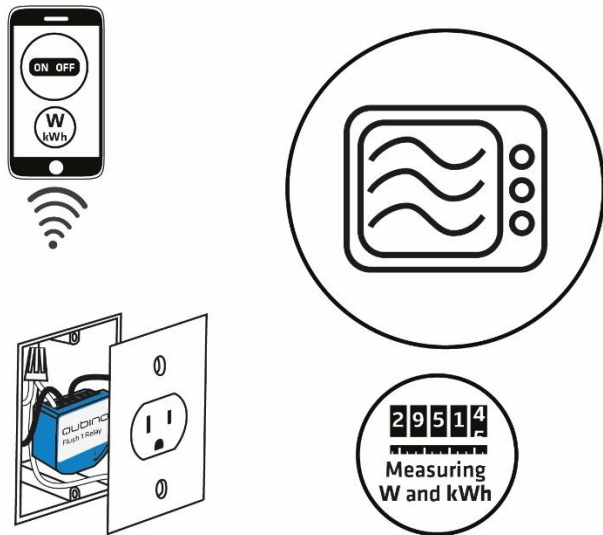
- Remotely control a fan connected to a power socket



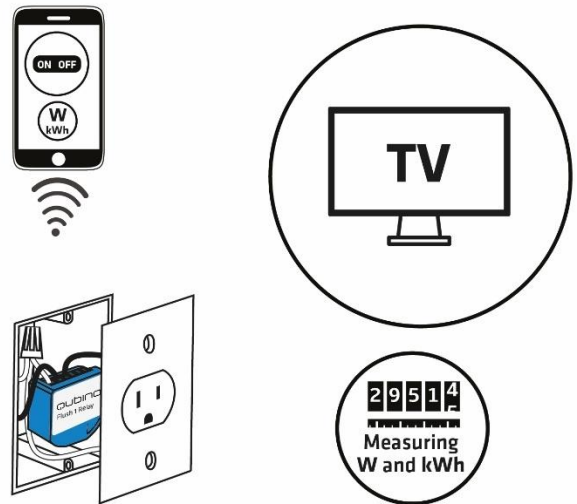
- Remotely control floor lights connected to a power socket



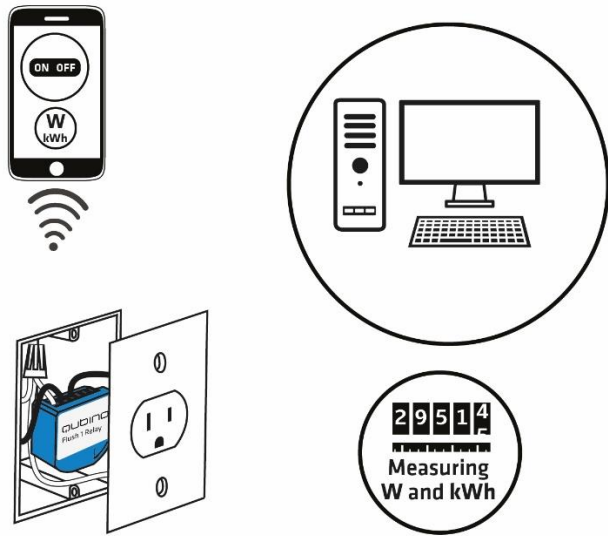
- Remotely control microwave oven connected to a power socket



- Remotely control television connected to a power socket

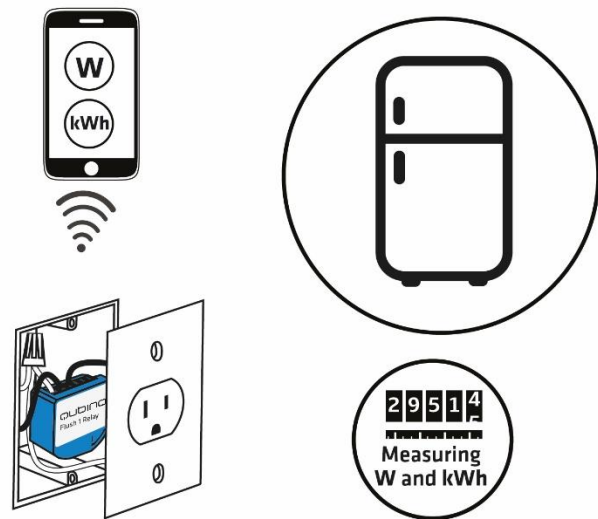


- Remotely control computer connected to a power socket



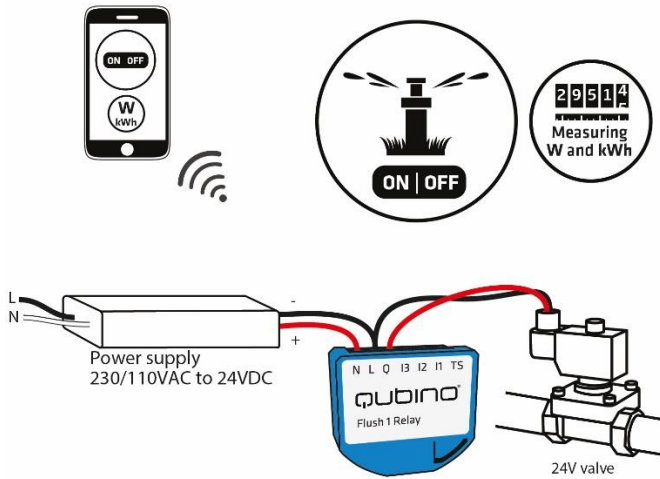
### 2.3. Installation examples where Flush 1 Relay is installed behind a power socket – for measuring power consumption of the connected device

- Remotely measure power consumption of refrigerator connected to a power socket

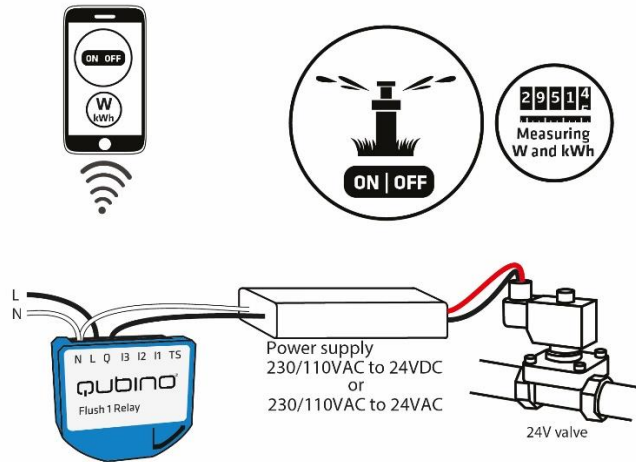


### 2.4. Installation examples where Flush 1 Relay is installed in electrical box

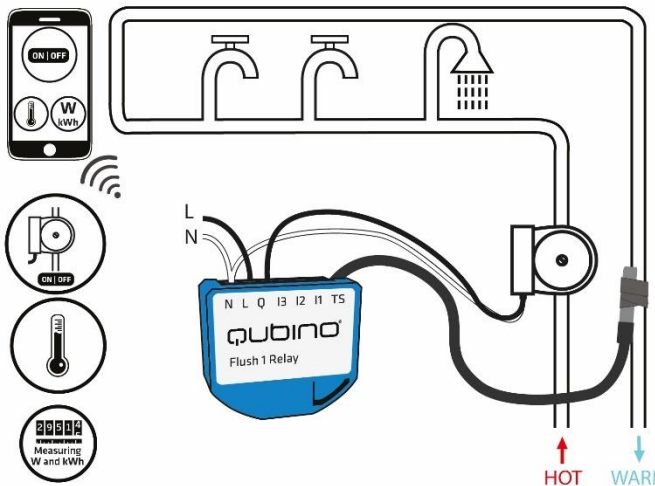
- Remotely control 24VDC irrigation sprinkle valves.



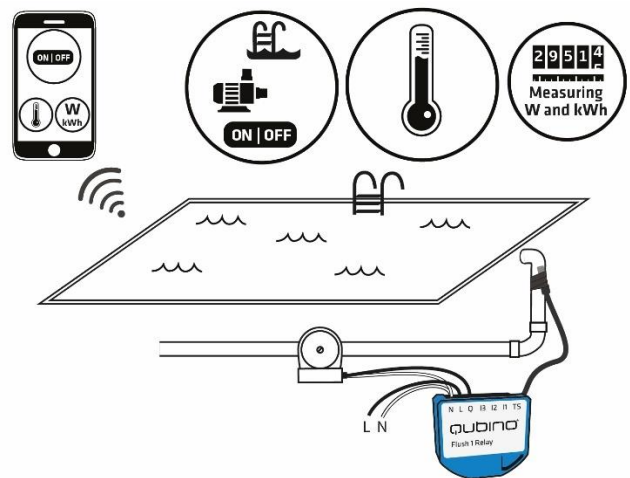
- Remotely control 240/110VAC or 24VDC irrigation sprinkle valves.



- Remotely control sanitary hot water recirculation pumps and remotely measure temperature of the sanitary hot water (\*The temperature sensor is sold separately - for more info, check Qubino catalogue. Product ordering code: ZMNHEA1)

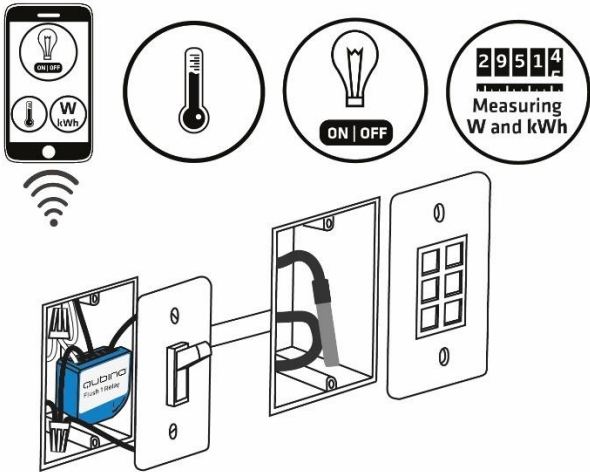


- Remotely control pool recirculation pumps and measure pool water temperature (\*The temperature sensor is sold separately - for more info, check Qubino catalogue. Product ordering code: ZMNHEA1)



### 2.5. Installation examples where Flush 1 Relay is installed in combination with temperature sensor

- Remotely measure room temperature with connected temperature sensor (\*The temperature sensor is sold separately - for more info, check Qubino catalogue. Product ordering code: ZMNHEA1)



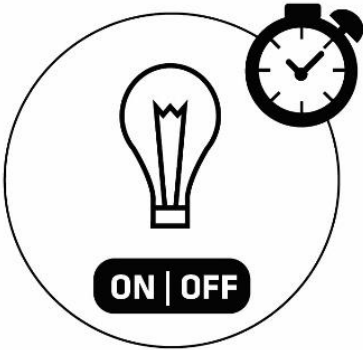
2.6. Additional features of Flush 1 Relay which can make your life easier

- **Do you worry that your irrigation system can expose your garden to flooding?**
- Sometimes your Z-Wave gateway (hub) can stop working while you're away from home (no internet connection, power outage, etc). If you have an irrigation scene scheduled, your gateway (hub) might not send an OFF command to your irrigation system, leaving your garden flooded and water bill more expensive than you'd like. The Flush 1 Relay offers the option to set the timing for irrigation for a specific amount of time internally; it then automatically stops watering, completely independent of your gateway's (hub's) commands.

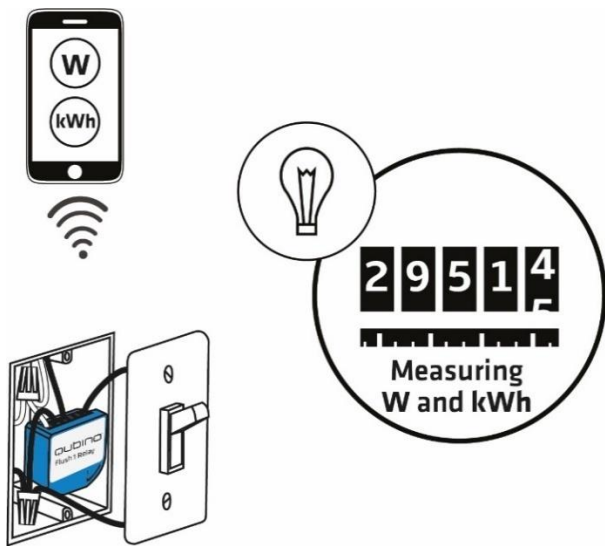


For the 24VDC use case, please check the chapter above.

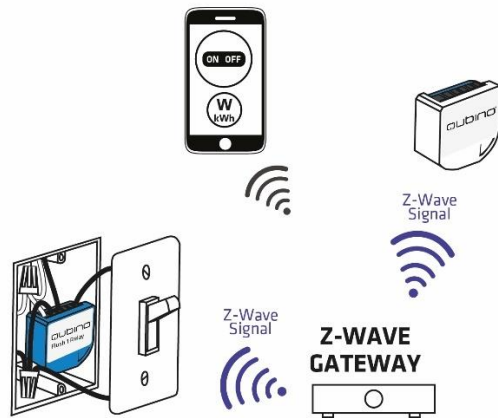
- **Do you often forget to turn off devices when you leave your home, like lights in the basement or attic?**
- The Flush 1 Relay can automatically turn devices/lights on or off after a set period of time (when you're away from home). For example, the light will automatically turn off if it's been on for 8 hours, let's say. This function is independent of other scenes and gateway (hub) commands.



- Do you know how much energy you consume?
- The Flush 1 Relay monitors and reports energy consumption of connected devices in real time to your smart home app (your gateway (hub) needs to support this feature). Know how much power your light, domestic water tank, iron, etc, is using.



- Want to control other devices in your Z-Wave network with the Flush 1 Relay?
- Connect the Flush 1 Relay with other devices in your network to remotely and automatically trigger another Z-Wave device. And have other Z-Wave devices trigger your Qubino Flush 1 Relay.



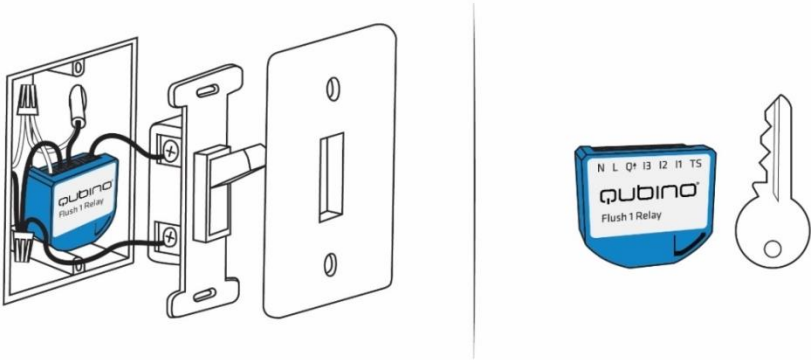
## Where To Buy

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### 3. Qubino Flush 1 Relay Advantages and Highlights

#### 3.1. Advantages

- The Qubino Flush 1 Relay allows the **easiest and quickest installation possible**. Because of its small size, it fits smoothly in even the smallest, most shallow and-most crowded flush mounting boxes, which are stuffed with lots of electrical cables and where **every millimetre counts**. All this is possible because the Qubino Flush 1 Relay is **the smallest Z-Wave switch in the world**.



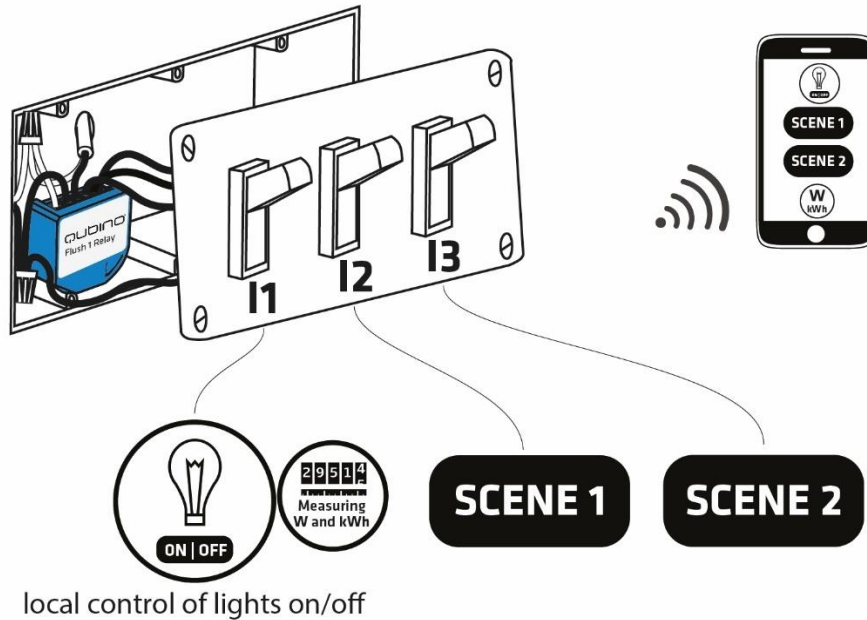
- The Qubino Flush 1 Relay has the **option to connect a temperature sensor\***, through which users can monitor the ambient air or water temperature. It's the only Z-Wave switch in the world which offers this option. With a connected sensor, the user can monitor accurate measurements of the room temperature, pool water temperature, etc., and remotely change conditions as desired. Qubino relay, along with the temperature sensor, is connected directly to the power supply. Install it and forget it – no need to worry about dying batteries, like with battery-powered sensors.

\*The temperature sensor is sold separately - for more info, please see Qubino catalogue.  
Product ordering code (model number): ZMNHEA1



**i** Please do not put the temperature sensor directly into the water! The temperature sensor is designed to measure the water temperature by being mounted to the water pipe.

- The Qubino Flush 1 Relay is the only Z-Wave switch in the world that has two additional inputs (I2, I3), which enable **triggering of different scenes**. The user does not need to buy additional devices for setting various scenes. For example:
  - Switch connected to input I2: Welcome Home – turn on all the lights in the house
  - Switch connected to input I3: Leaving Home – turn off all the lights in the house



- Qubino guarantees **100% device quality**. Such high quality can be delivered because every Qubino goes through rigorous quality control standards throughout the production process. Every device has a unique serial number and a part number, which are assigned to the device only after it goes through a strict testing procedure.

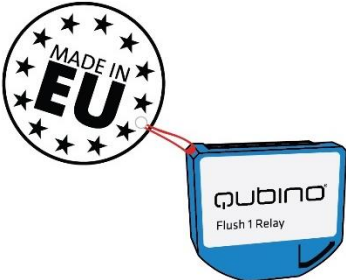




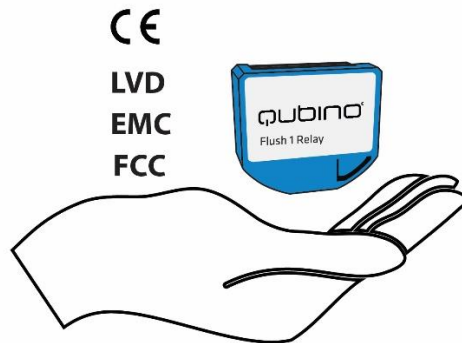
- By scanning the QR code on the back of your Qubino device, the serial and part numbers will be automatically copied on your mobile phone; they also provide **direct access to Qubino’s technical support team**. The serial and part numbers of your device are given automatically every time you open an inquiry with our support team: this instantly shares the relevant device information we need to provide the best technical support possible. For details, please see the Device Information and Support chapter.



- The Qubino Flush 1 Relay is **engineered and manufactured in the EU**, and contains only the highest quality components.



- The Qubino Flush 1 Relay is certified by an independent European Institute and has CE, FCC, LVD and EMC certificates to ensure the highest safety standards.



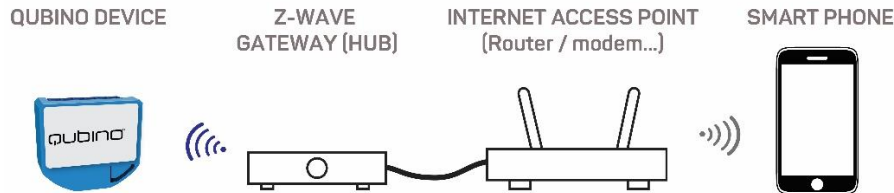
### 3.2. Highlights

- Remote (via smartphone or PC) and local on/off control of bulbs and other electrical devices
- Works with push-button (momentary switch) and toggle switch or you can install it behind power sockets
- Capable of measuring the power consumption of the connected device in real time via smartphone, which allows you to save on electricity bills\*
- Features one of the easiest and quickest installations of devices of this kind; fits in even the smallest flush mounting boxes
- Saves and restores the last status after a power failure
- Supports auto-inclusion mode for quick set up
- Can automatically turn devices on and off after a set period of time (helpful when you're away from home, for example) \*
- Supports additional parameters for expert users, which allows for advanced configuration\*
- Acts as a signal repeater which improves the range and stability of your Z-Wave network
- Can be used to remotely control and trigger other devices in your Z-Wave network

\*Your gateway (hub) needs to support advanced configuration and parameter input if you wish to use this feature

## 4. Installation

WHAT YOU NEED FOR THE INSTALLATION:



**Before installing the device, please read the following carefully and follow the instructions exactly:**



### **ⓘ Danger of electrocution!**

Installation of this device requires a great degree of skill and may be performed only by a licensed and qualified electrician. Please keep in mind that even when the device is turned off, voltage may still be present in the device's terminals.

### **ⓘ Note!**

Do not connect the device to loads exceeding the recommended values. Connect the device exactly as shown in the provided diagrams. Improper wiring may be dangerous and result in equipment damage.

**Electrical installation must be protected by directly associated overcurrent protection fuse 10A, gG or Time lag T, rated breaking capacity 1500A (ESKA 522.727) must be used according to wiring diagram to achieve appropriate overload protection of the device. The fuse must be installed in fuse holder type: Adels contact 503Si/1 DS according to the standard IEC60669-2-1.**

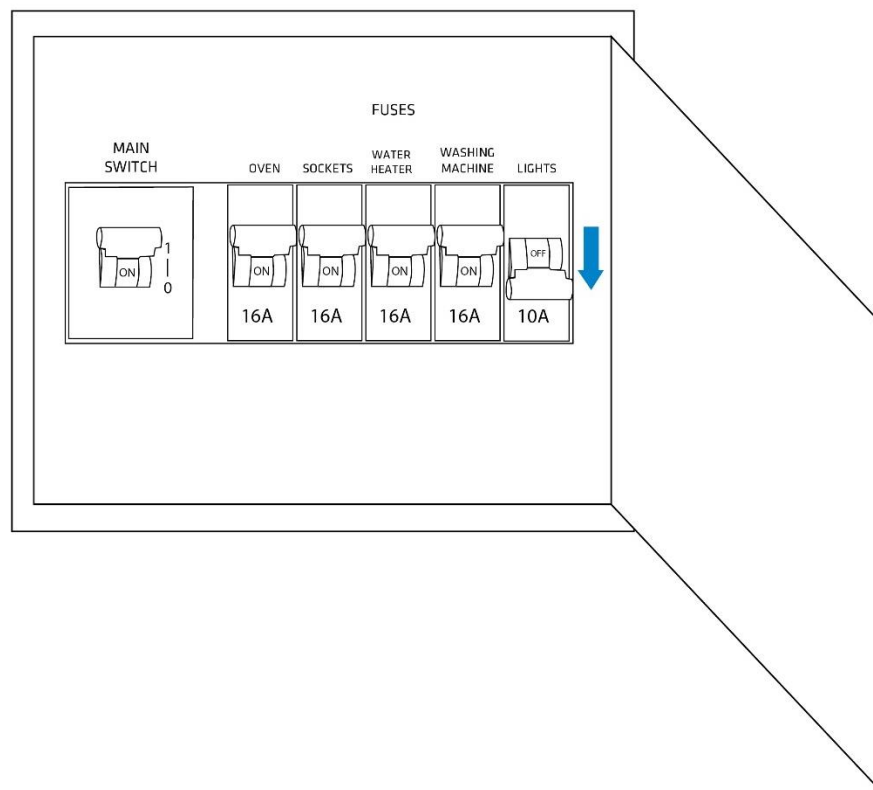
## 4.1. Installing the device behind a light switch

The installation process, tested and approved by professional electricians, consists of the following simple steps:

### **Step 1 – Turn OFF the fuse:**

- To prevent electrical shock and/or equipment damage, disconnect electrical power at the main fuse or circuit breaker before installation and maintenance.
- Be aware that even if the circuit breaker is off, some voltage may remain in the wires — before proceeding with the installation, be sure no voltage is present in the wiring.
- Take extra precautions to avoid accidentally turning the device on during installation.

### **STEP 1**

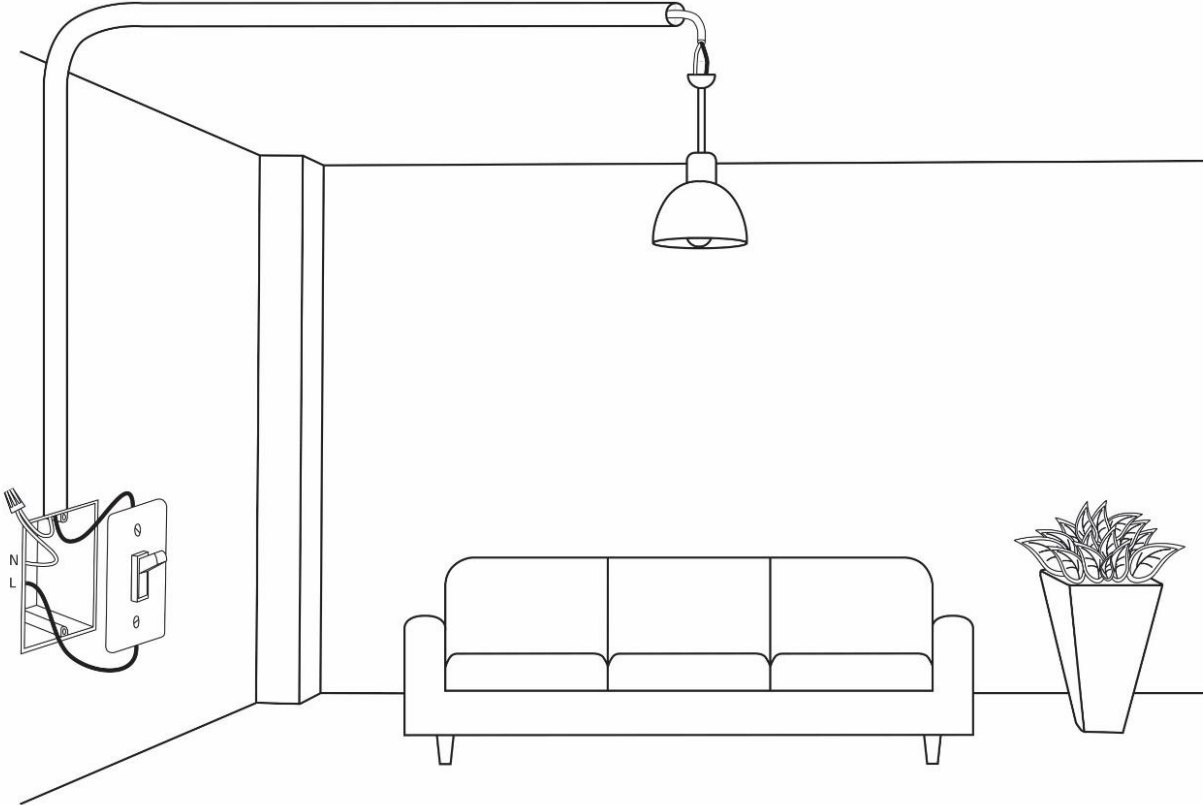


**Step 2 – Installing the device:**

- Connect the device exactly according to the diagrams shown below

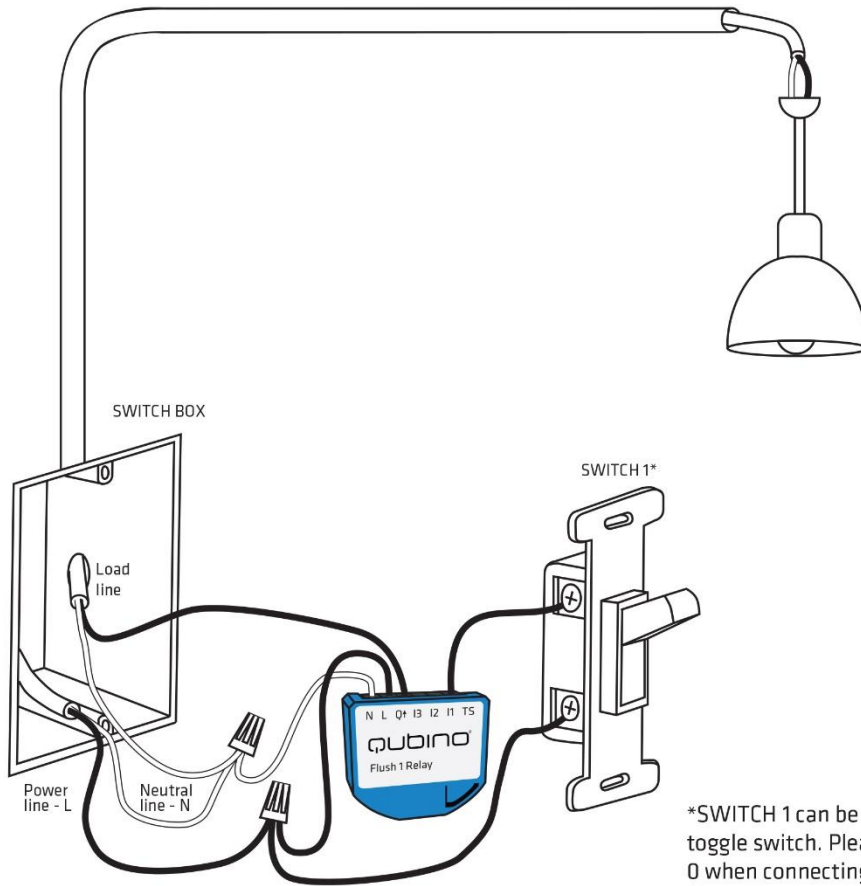
**STEP 2**

**Before Qubino installation:**



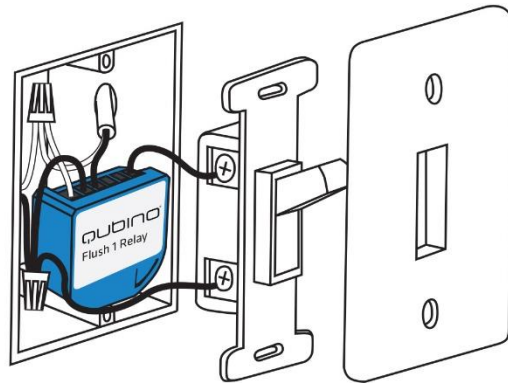
**After Qubino installation:**

**Wiring with one switch**

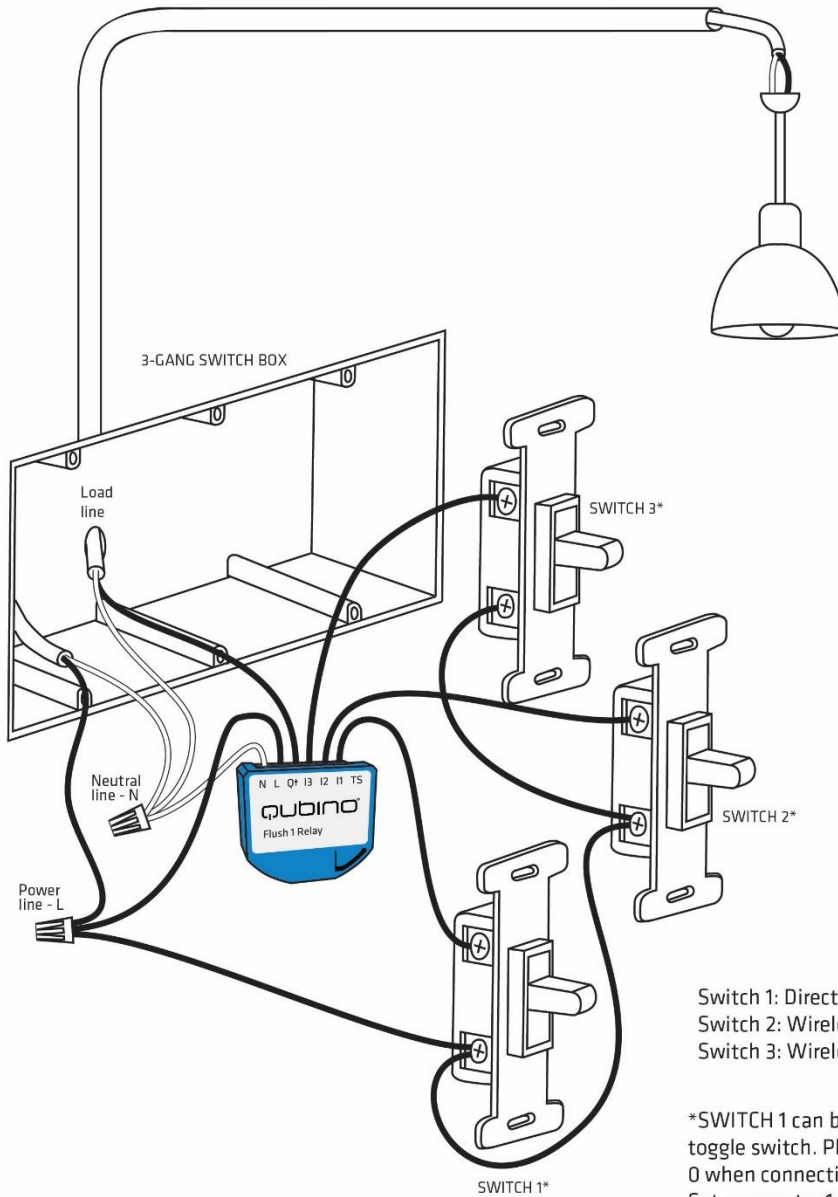


\*SWITCH 1 can be a momentary switch or a toggle switch. Please set parameter 1 to value 0 when connecting to a momentary switch. Set parameter 1 to value 1 when connecting to an on/off toggle switch (default setting). Please see the Configuration Parameters chapter for more information about advanced parameter settings

**Installation in the switch box:**



**INSTALLATION WITH ON/OFF SWITCH AND SCENE SWITCHES:**



Switch 1: Direct light fixture control  
 Switch 2: Wireless scene control (Scene 1)  
 Switch 3: Wireless scene control (Scene 2)

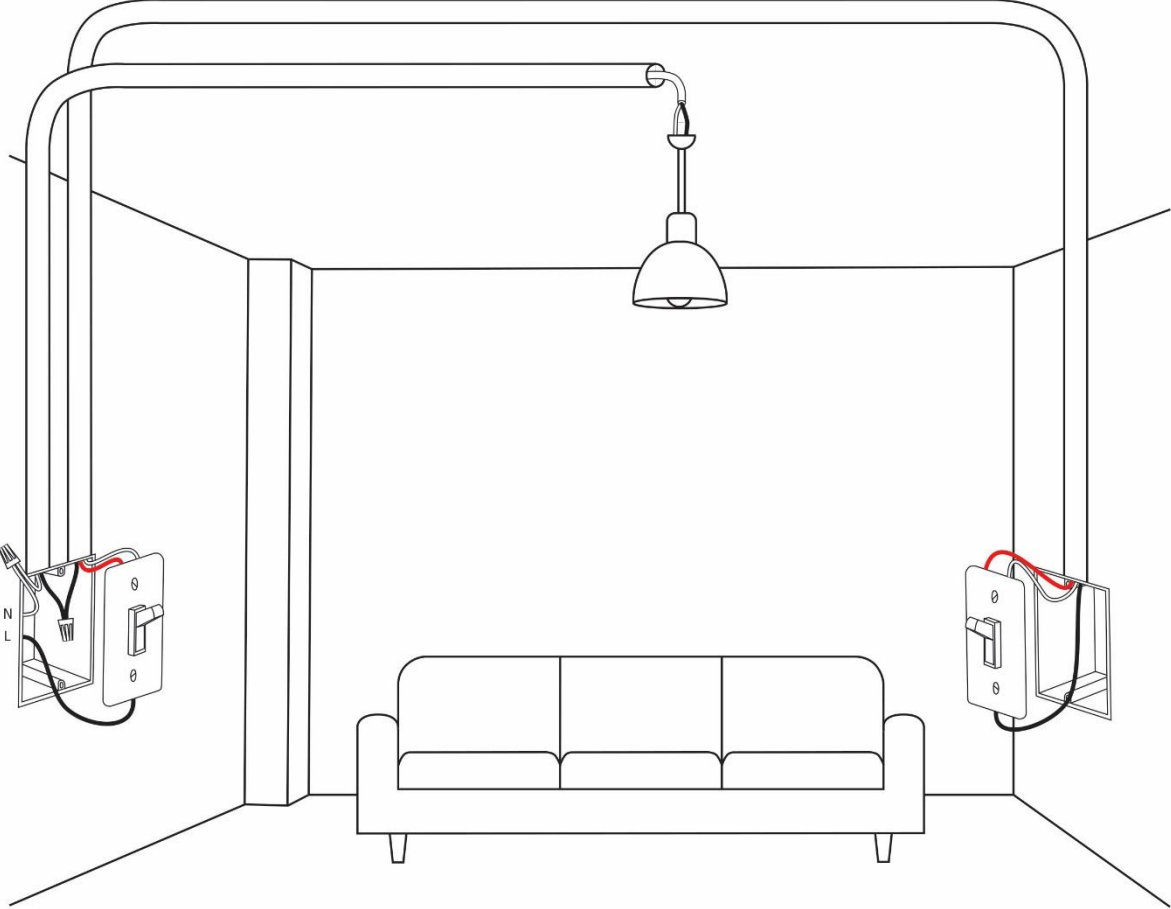
\*SWITCH 1 can be a momentary switch or a toggle switch. Please set parameter 1 to value 0 when connecting to a momentary switch. Set parameter 1 to value 1 when connecting to an on/off toggle switch (default setting). Please see the Configuration Parameters chapter for more information about advanced parameter settings.

SWITCHES 2 AND 3 must be toggle switches.

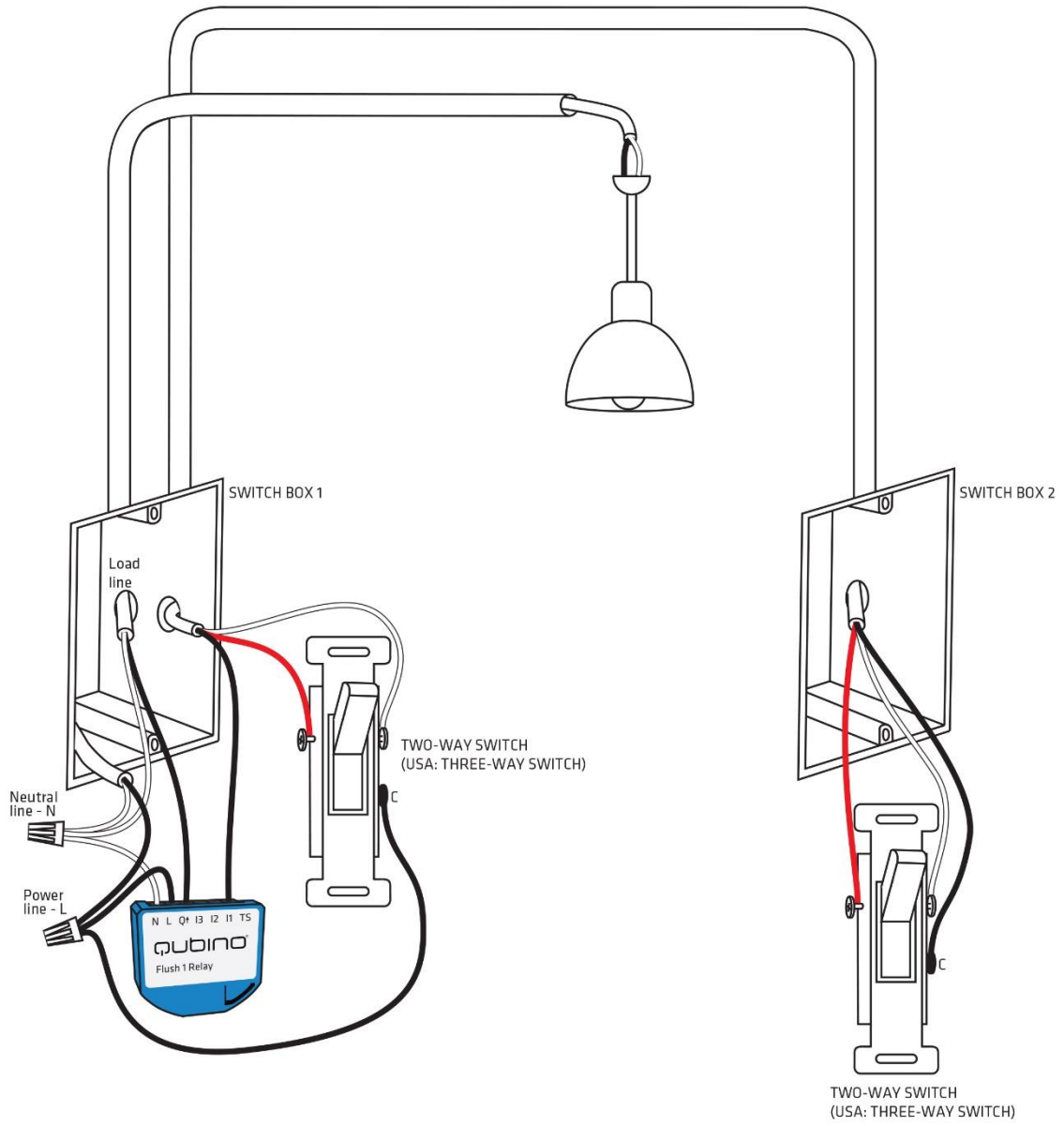


INSTALLATION WITH 2 OR MORE SWITCHES CONTROLLING THE SAME LIGHT:

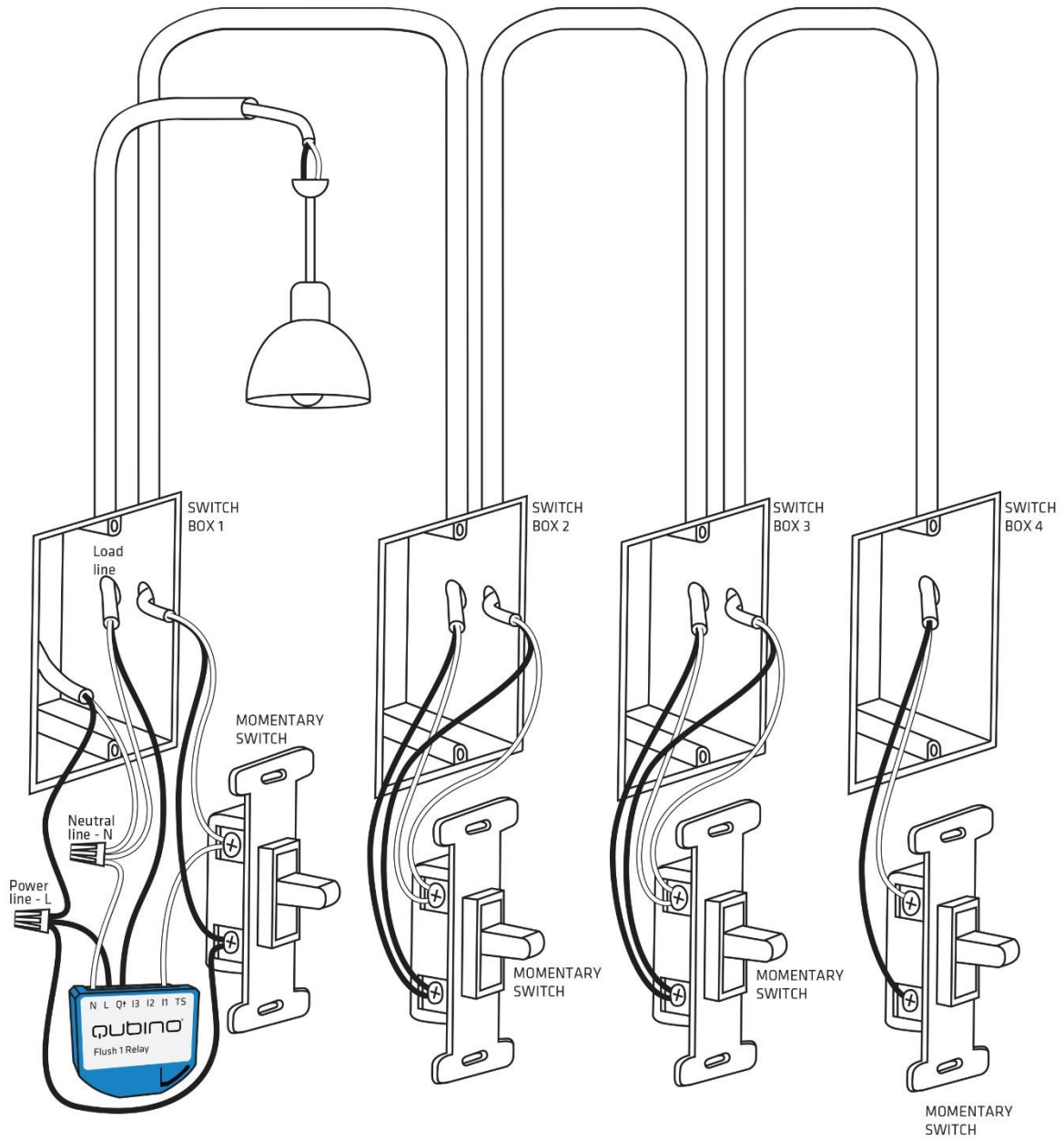
Before Qubino installation:



2 WAY SWITCH:

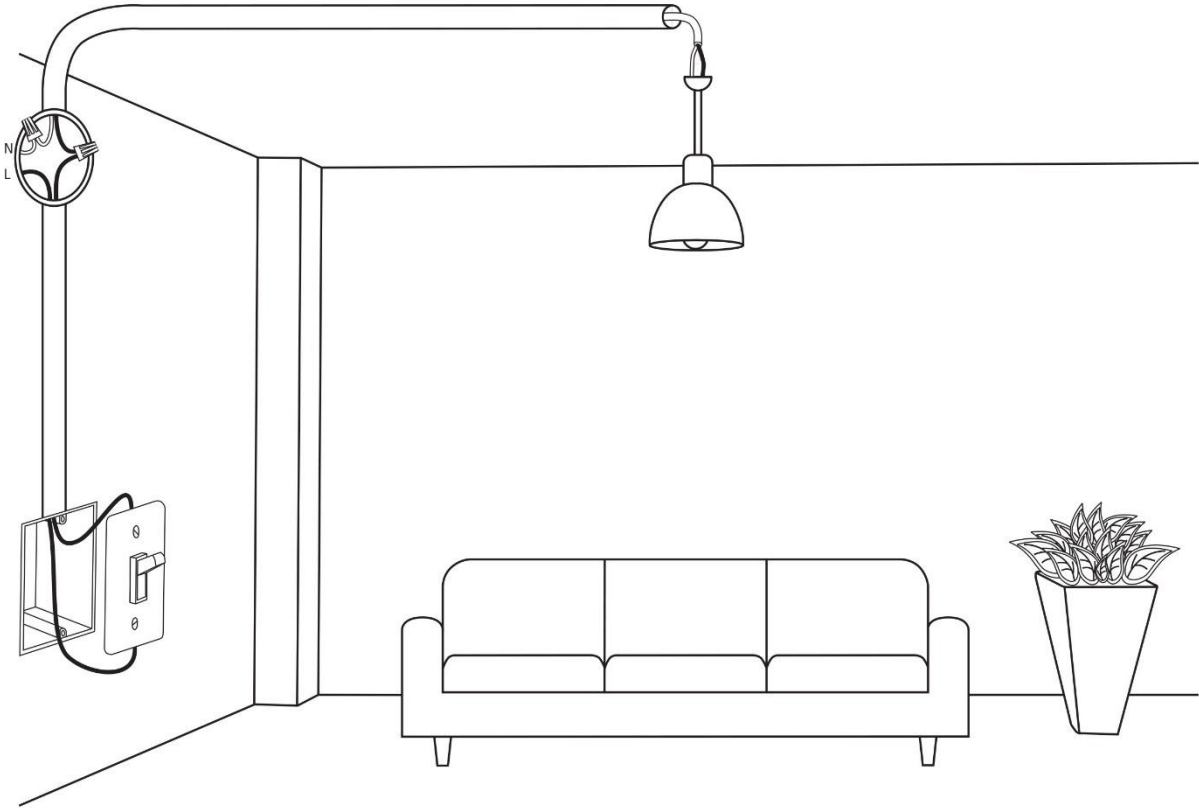


MULTI-WAY SWITCHES:

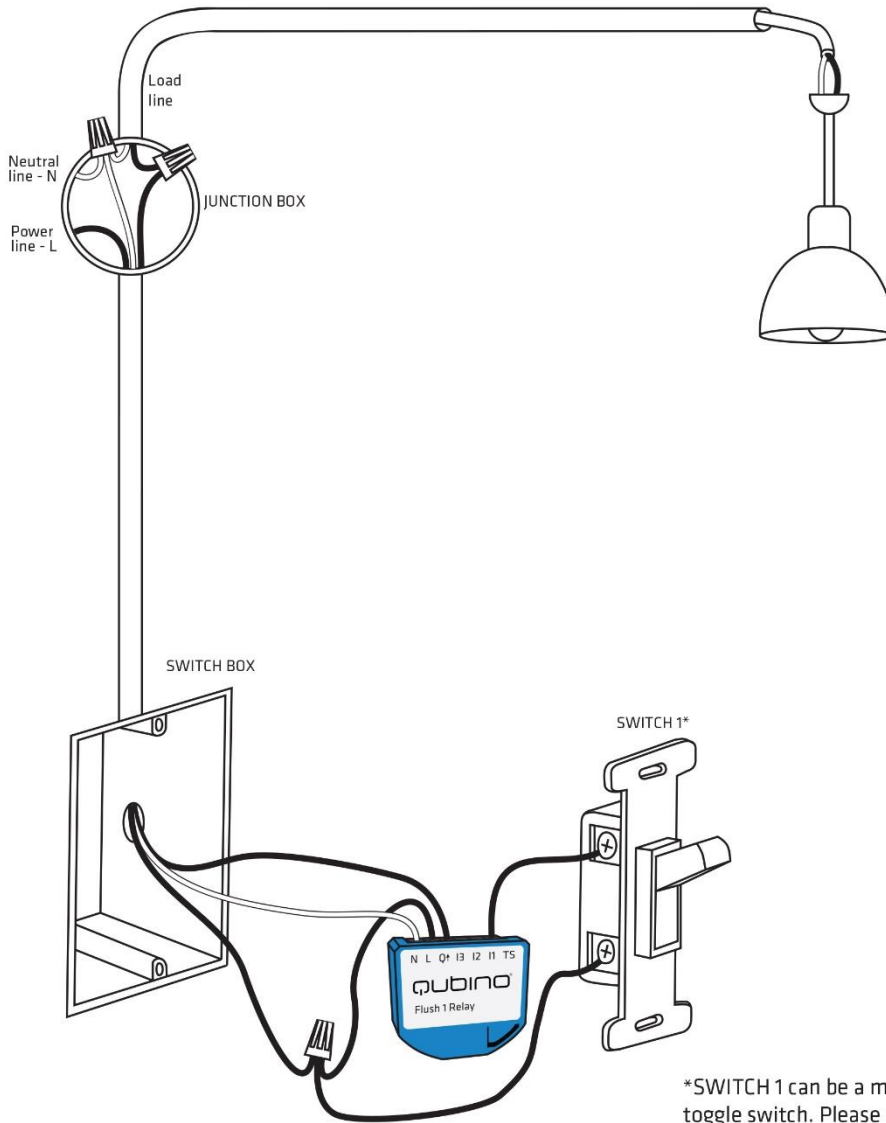


INSTALLATION WHERE THERE IS NO NEUTRAL LINE (N) IN SWITCH BOX

Before Qubino installation:



**After Qubino installation:**

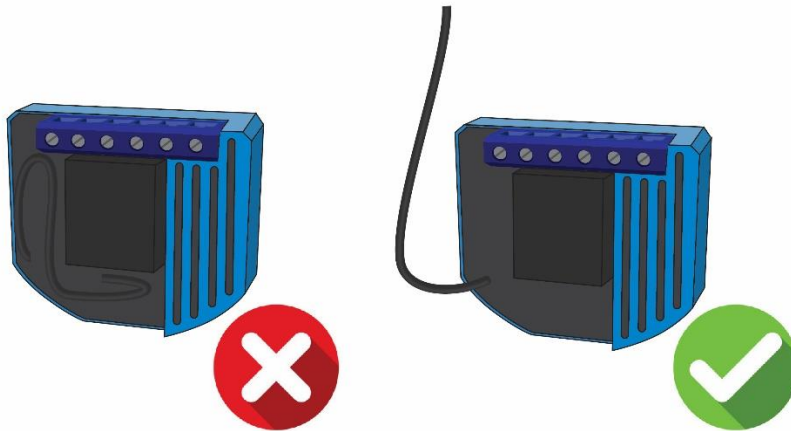


\*SWITCH 1 can be a momentary switch or a toggle switch. Please set parameter 1 to value 0 when connecting to a momentary switch. Set parameter 1 to value 1 when connecting to an on/off toggle switch (default setting). Please see the Configuration Parameters chapter for more information about advanced parameter settings.

**i Note!**

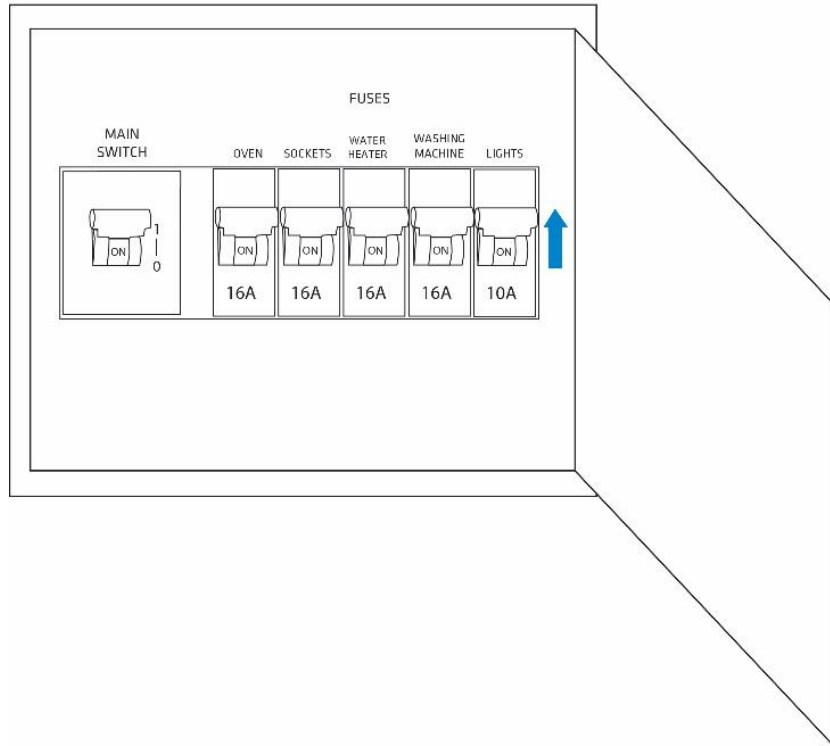
- Place the antenna as far as possible from metal elements as they may cause signal interference.
- Do not shorten the antenna.

The device's antenna should be as upright as possible. This ensures the device's operational range is maximized (up to 98 feet (30 m) line of sight).



Step 3– Turn ON the fuse:

**STEP 3**



**Step 4 – Add the device to your Z-Wave network:**

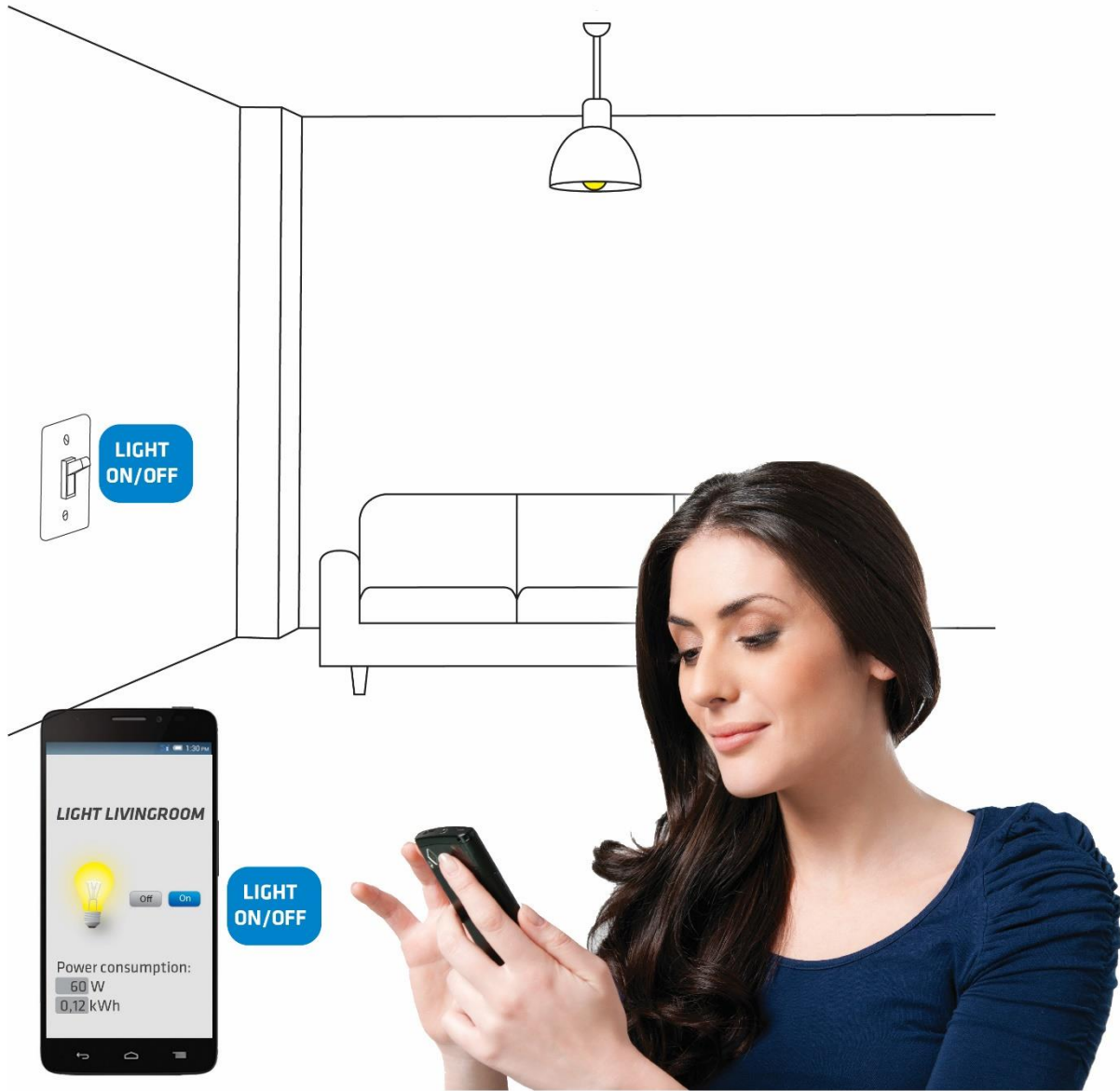
- For more details on how to include the device, please refer to the Z-Wave Inclusion chapter.





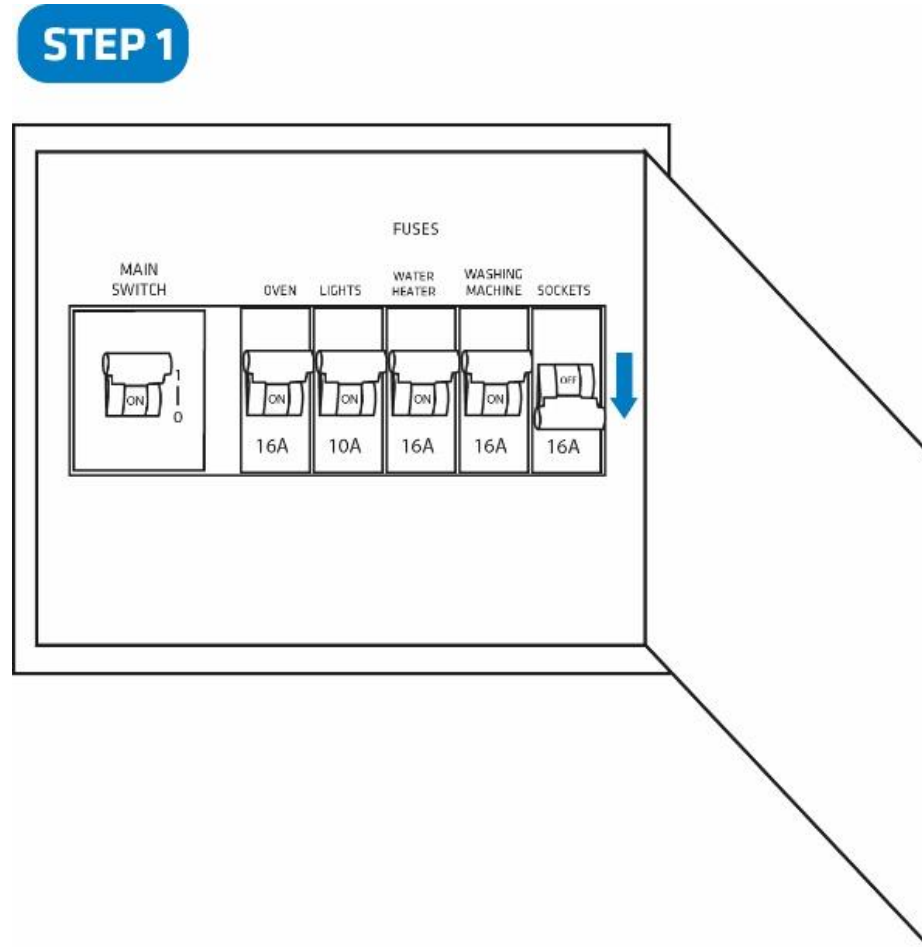
**Step 5 – The Installation is now complete. It’s time to make your life more comfortable with the help of the Qubino Flush 1 Relay**

**STEP 5**



## 4.2. Installing the device behind a socket

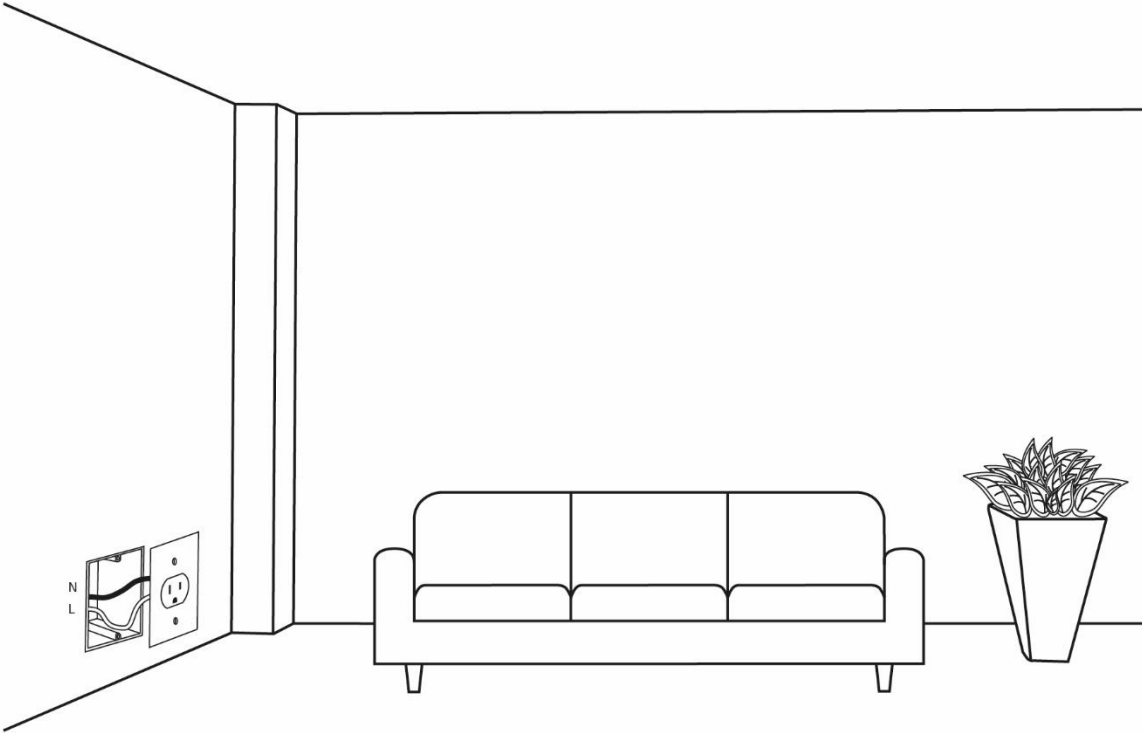
### Step 1 – Turn OFF the fuse:



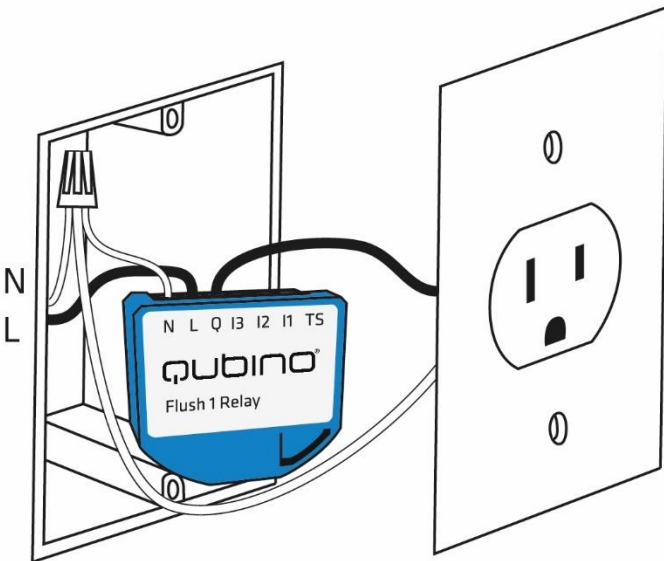
**Step 2 – Install the device:**

**STEP 2**

**Before installation:**

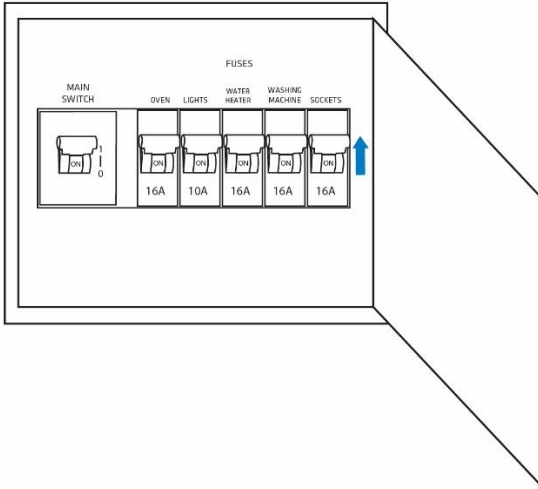


**After installation:**



**Step 3 – Turn ON the fuse:**

**STEP 3**



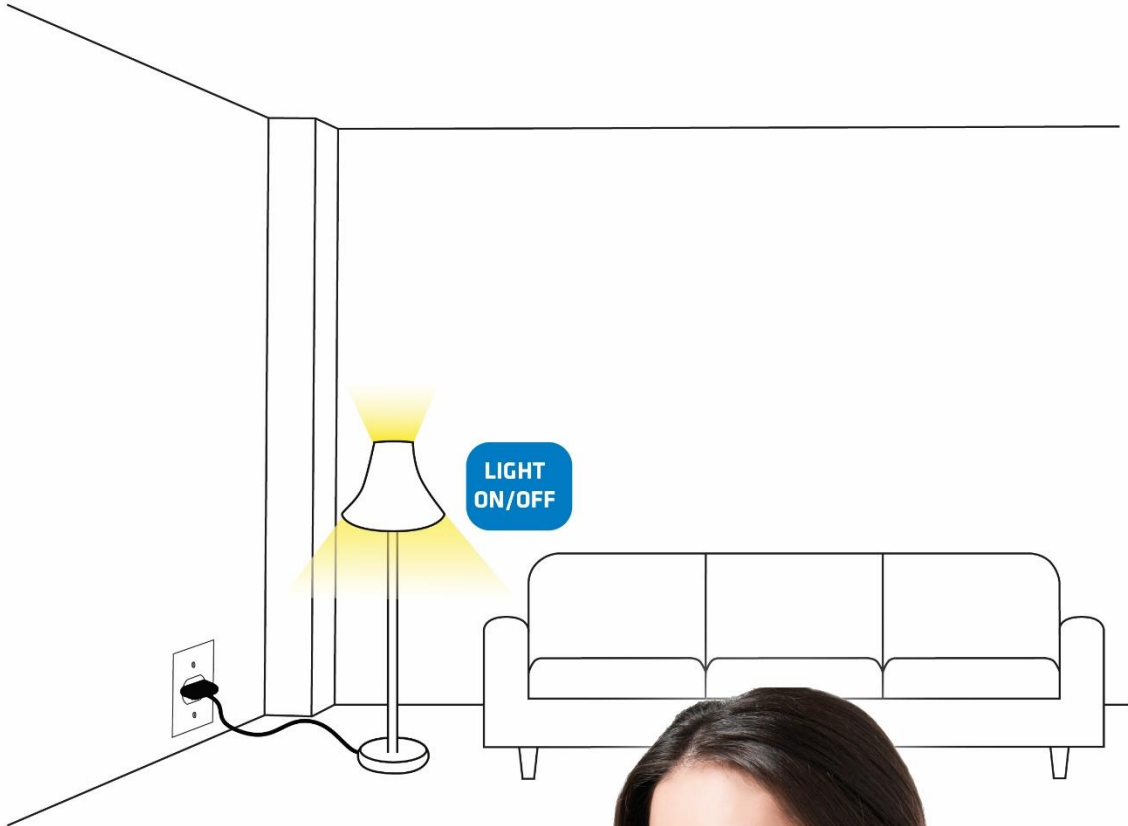
**Step 4 – Add the device to your Z-Wave network:**

**STEP 4**

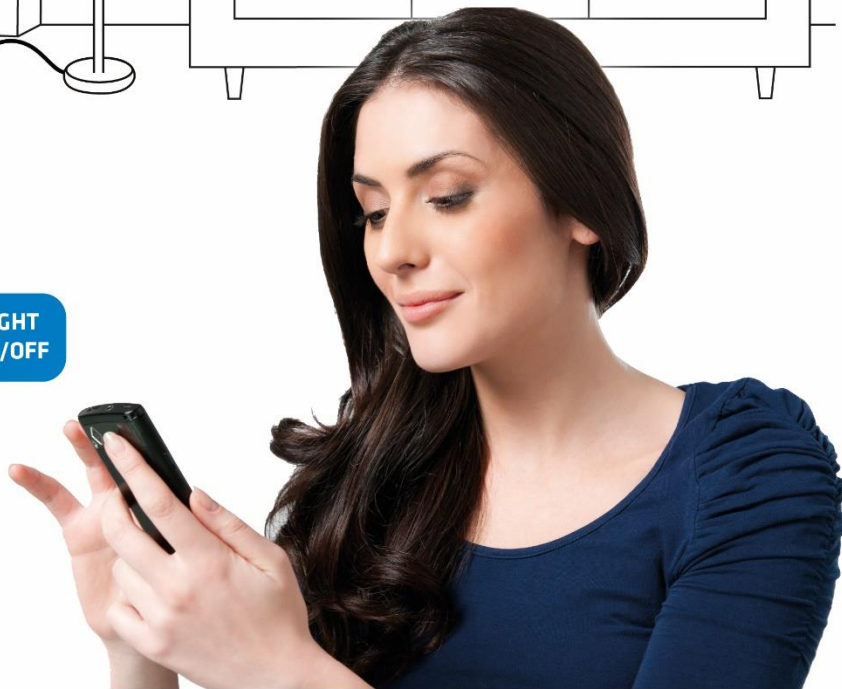


**Step 5 – The Installation is now complete. It’s time to make your life more comfortable with the help of the Qubino Flush 1 Relay**

**STEP 5**



LIGHT ON/OFF



### 4.3. Installing the Qubino Temperature Sensor

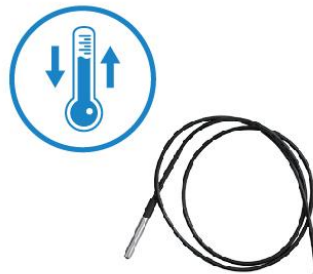
The temperature sensor is a Qubino accessory and is sold separately - for more info, please see the Qubino product catalogue or website: <http://qubino.com/products/accessories/>

**Product ordering code: ZMNHEA1**

Qubino Z-Wave devices have the option to connect a temperature sensor (sold separately), which allows you to **remotely monitor ambient or water temperature**. Qubino devices are the only Z-Wave devices of its kind to offer this unique capability. With the sensor connected to the device, you can carry out accurate measurements of room temperature, pool water temperature, etc. and build automation rules around them. Qubino device with a temperature sensor is connected directly to power supply. Install it and forget it, there is no need to worry about changing the batteries like with most other Z-Wave temperature sensors which run on batteries. The temperature sensor's range is between  $-25 \sim +80^{\circ}\text{C}$  ( $-13 \sim 176^{\circ}\text{F}$ ).

For more details about the temperature range, see the manual for the temperature sensor below.

Qubino\_Temperature Sensor manual\_eng



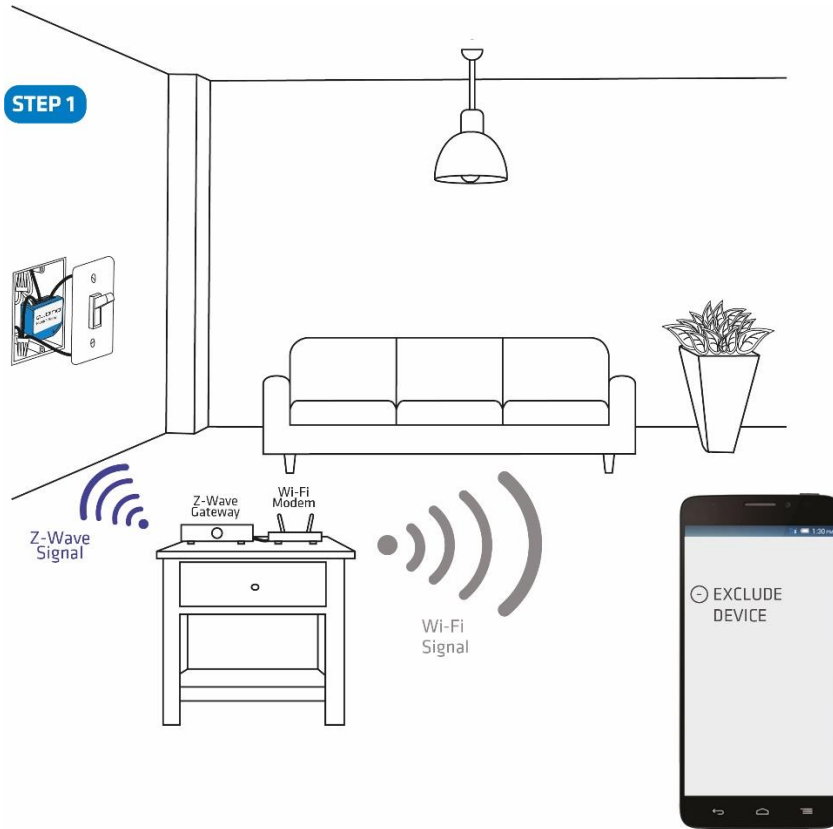
The digital Temperature sensor comes with a 1 m (3.3 ft) cord and a connector to attach it directly to a Qubino device.

1. To prevent electrical shock, make sure that no voltage is present on the temperature sensor cable.
2. When connected to Qubino device, the temperature sensor is under high voltage, which is very dangerous.
3. Goap d.o.o. does not take responsibility for any damage or electrical shock due to incorrect sensor assembly.
4. The above instructions and description apply to a temperature sensor compatible with Qubino products only.

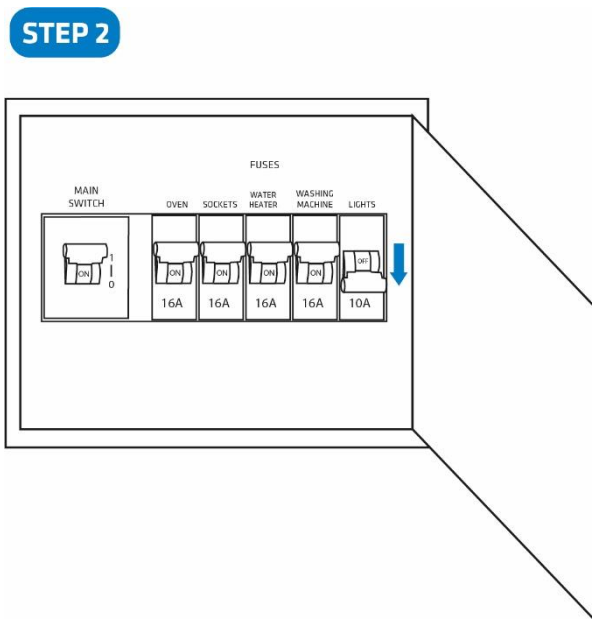
NOTE: When Qubino is wired to 110-240VAC (high voltage) the temperature sensor must not be in direct contact with water.

## Temperature sensor installation example:

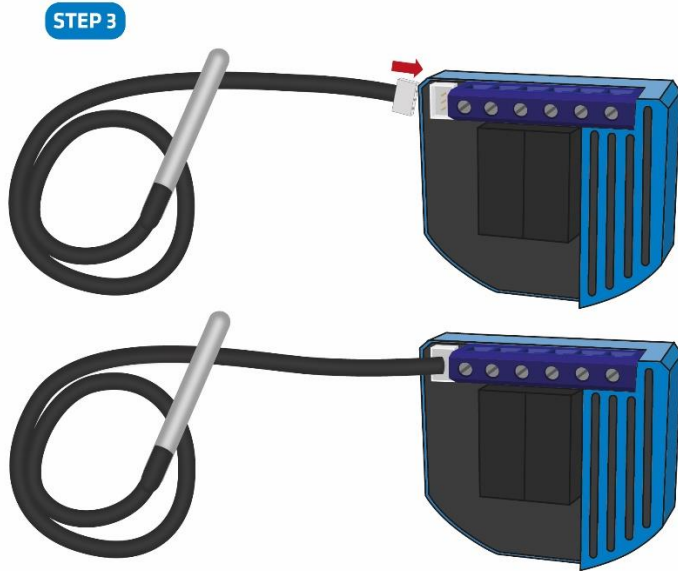
### Step 1 – Exclude the device (if it is already connected to your Z-Wave system)



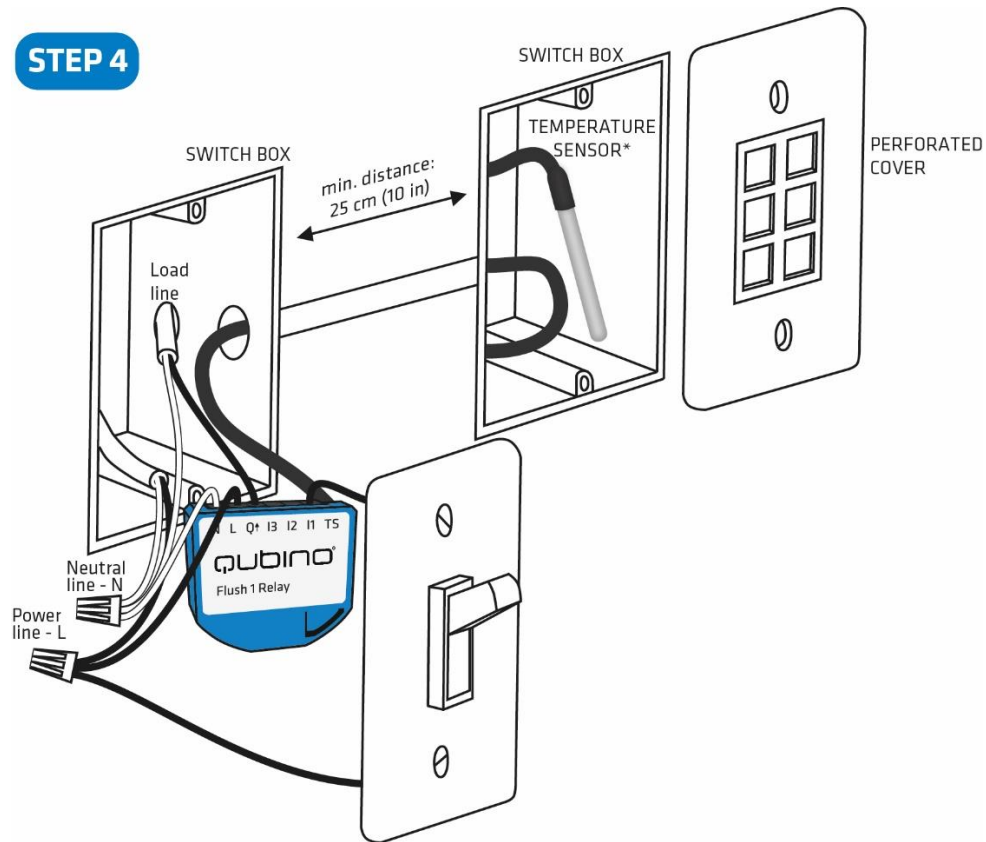
### Step 2 – Switch of the power supply



**Step 3 – Connect the temperature sensor as shown below**



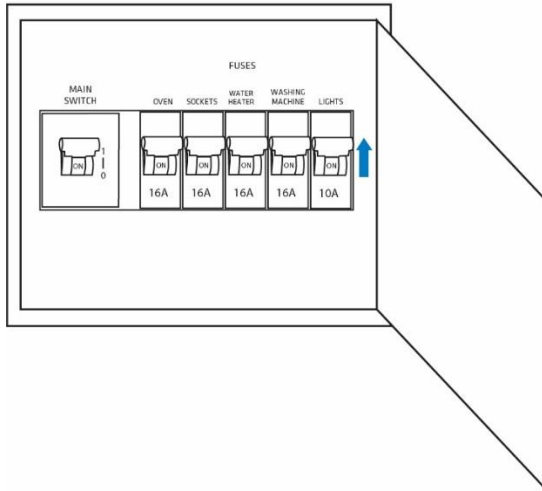
**Step 4: Place the temperature sensor in the switch box**





**Step 5 – Turn the fuse on**

**STEP 5**



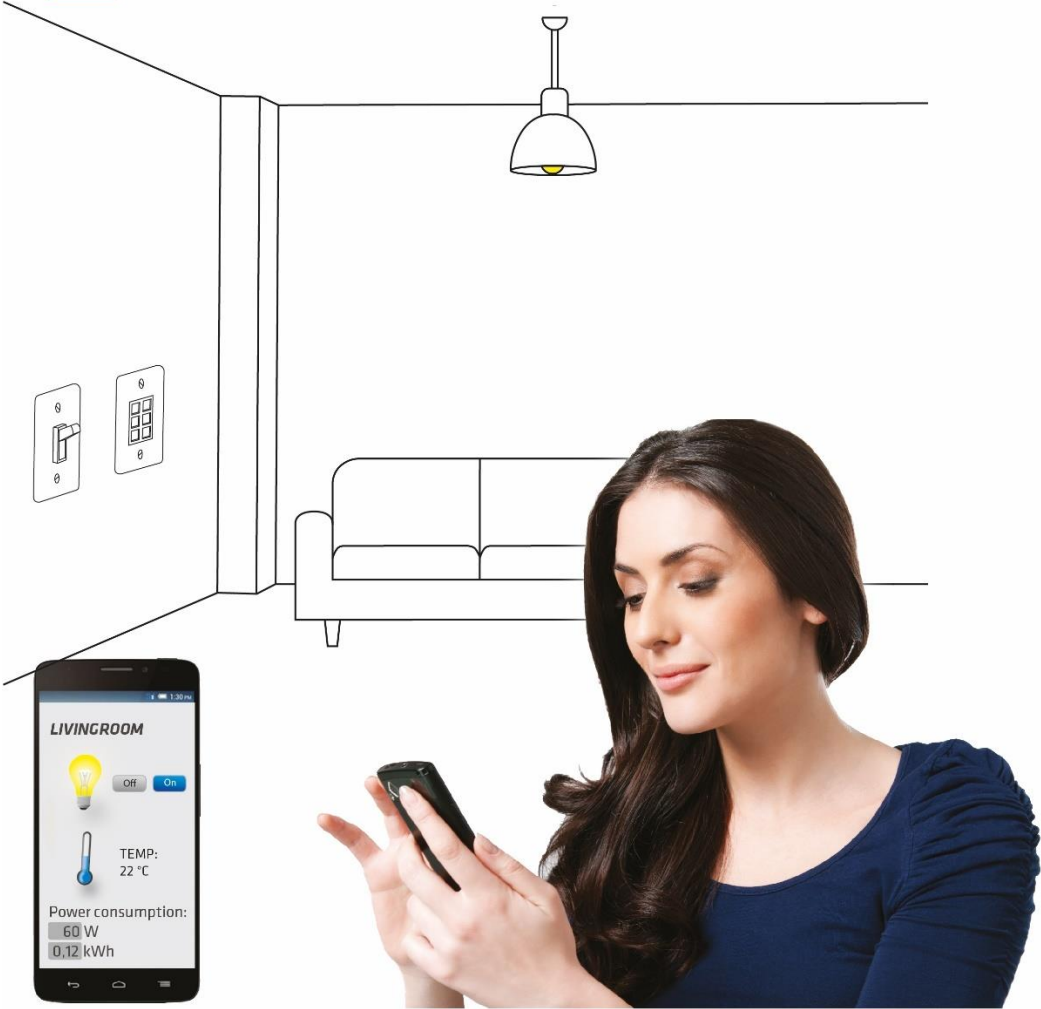
**Step 6 – Re-include the device to your network**

**STEP 6**



**Step 7 – Start using the temperature sensor in connection with your device**

**STEP 7**



## 5. Device Information and Support

### Flush 1 Relay supported functions:

Turn ON/OFF	W Measurement	kWh Measurement	Temperature Sensor	Scene 1 Trigger	Scene 2 Trigger	Automatically turn ON/OFF	Associations	Z-Wave Repeater	Auto-inclusion
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Did you know that Qubino offers Z-Wave devices with 100% quality control guaranteed throughout the production process? Every single unit is tested and examined before being approved for sale – a truly unique pledge in the industry.

### **Why is this important?**

Every device has a dedicated serial number and part number, which is assigned to the device only after it goes through a strict testing procedure.

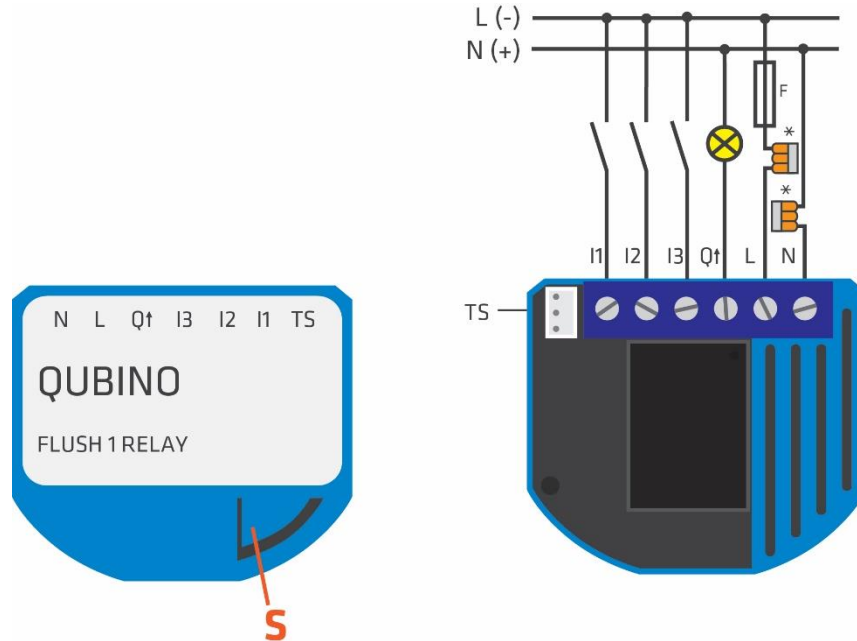
By scanning the QR code on the back of your Qubino, its device title, serial number, and part number are automatically copied to your mobile phone. You can also use the code for direct access to the device page for more information. If you still don't find what you're looking for, click on the link to Qubino technical support team. They will be able to automatically read the serial and part number from your device and quickly review the production log file containing the production date as well as any relevant device parameters and information. This process allows our team to immediately identify and address issues, giving you the best support possible.

## GET SUPPORT IN 3 SIMPLE STEPS:



Based on customer and business partner feedback, we're proud to boast Qubino's support team as the best and fastest on the market. If you don't find the answers to your questions in this document, please contact our support team by scanning the QR code on your device or through our website: <http://qubino.com/support/#email>. We will try to help you as soon as possible.

## 6. Electrical Diagram (110 - 240VAC, 24VDC)



### Notes for diagram:

<b>N</b>	Neutral wire (+VDC)
<b>L</b>	Live (line) wire (-VDC)
<b>Q1</b>	Output for electrical device (load) no. 1
<b>I3</b>	Input for switch / sensor
<b>I2</b>	Input for switch / sensor
<b>I1</b>	Input for switch /push button
<b>TS</b>	Temperature sensor terminal
<b>*</b>	Wago 221-413 splicing connectors for L and N connection must be used only when connected to 240 VAC.
<b>S</b>	Service button

### WARNING:

The S (Service) button **must NOT be used** when the device is connected to a 110-240V power supply.

The durability of the device depends on the applied load. For resistive loads (light bulbs, etc.) and 10A current consumption of an electrical device, the device's lifespan exceeds 100,000 toggles.

## **Overload**

\* In case of load other than resistive, pay attention to the value of  $\cos \phi$  and if necessary apply load lower than the rated load. Max current for  $\cos \phi=0,4$  is 3A at 250VAC, 3A at 24VDC  
L/R=7ms.

Max Power Limit is automatically set by a software. If max power is exceeded for more than 5 seconds, the output is turned off up to next restart of the module. When overload occurred, Event "Over-load detected" is sent to the gateway (from Root or EndPoint1).

## 7. Adding the device to a Z-Wave network (Inclusion)

### AUTOMATICALLY ADDING THE DEVICE TO A Z-WAVE NETWORK (AUTO INCLUSION)

1. Enable add/remove mode on your Z-Wave gateway (hub)
2. Connect the device to the power supply (with the temperature sensor already connected – sold separately\*).
3. Auto-inclusion will be initiated within 5 seconds of connection to the power supply and the device will automatically enrol in your network

NOTE: the device can be automatically added to a Z-Wave network during the first 2 minutes after connected to the power supply.

### MANUALLY ADDING THE DEVICE TO A Z-WAVE NETWORK (MANUAL INCLUSION)


1. Enable add/remove mode on your Z-Wave gateway (hub)
2. Connect the device to the power supply (with the temperature sensor already connected\*)
3. Toggle the switch connected to the I1 terminal 3 times within 5 seconds. The device has to get On/Off signal 3 times, meaning 3 times push of the button or with the normal button 3 times On/Off.

*OR*

If the device is powered by 24 V SELV supply, press and hold the S (Service) button between 2 and 6 seconds

4. A new multi-channel device will appear on your dashboard
5. Inclusion with the switch connected to I1 terminal is not limited by time

\*If connecting the temperature sensor, switch off the power supply and make sure the device is excluded from your network BEFORE connecting the sensor.

 Make sure the device is excluded from your network before connecting the temperature sensor. Switch off the power supply, connect the temperature sensor, and re-include the device to your network.

## 8. Removing the device from a Z-Wave network (Exclusion)

### REMOVAL FROM A Z-WAVE NETWORK (Z-WAVE EXCLUSION)

1. Connect the device to the power supply
2. Make sure the device is within direct range of your Z-Wave gateway (hub) or use a hand-held Z-Wave remote to perform exclusion
3. Enable add/remove mode on your Z-Wave gateway (hub)
4. Toggle the switch connected to the I1 terminal 3 times within 5 seconds. The device has to get On/Off signal 3 times, meaning 3 times push of the button or with the normal button 3 times On/Off.

### OR

If the device is powered by 24 V SELV supply, press and hold the S (Service) button between 2 and 6 seconds


5. Exclusion with the switch connected to I1 terminal is not limited by time
6. The device will be removed from your network but any custom configuration parameters will not be erased

### FACTORY RESET

1. Connect the device to the power supply
2. Within the first minute (60 seconds) the device is connected to the power supply, toggle the switch connected to the I1 terminal 5 times within 5 seconds (5 times change switch state)

### OR

If the device is powered by 24 V SELV supply, press and hold the S (Service) button for more than 6 seconds

 By resetting the device, all custom parameters previously set on the device will return to their default values, and the owner ID will be deleted. Use this reset procedure only when the main gateway (hub) is missing or otherwise inoperable.



## 9. Associations

Use associations for direct communication between the Flush 1 Relay and other devices within your Z-Wave network without the need of your primary gateway (hub).

### Association Groups:

#### Root device:

- Group 1: Lifeline group (reserved for communication with the primary gateway (hub)), 1 node allowed.
- Group 2: Basic on/off (status change report for Q1 load), up to 16 nodes.
- Group 3: Basic on/off (status change report for I2 input), up to 16 nodes.
- Group 4: Notification report (status change report for I2 input), up to 16 nodes.
- Group 5: Binary sensor report (status change of the I2 input), up to 16 nodes.
- Group 6: Basic on/off (status change report for I3 input), up to 16 nodes.
- Group 7: Notification report (status change report for I3 input), up to 16 nodes.
- Group 8: Binary sensor report (status change of the I3 input), up to 16 nodes.
- Group 9: Multilevel sensor report (triggered at change of temperature sensor) up to 16 nodes.

#### End point 1 (Wall Switch I1):

- Group 1: Lifeline group, 0 nodes allowed.
- Group 2: Basic on/off (status change report for Q1 load), up to 16 nodes.

#### End point 2 (Wall Switch I2):

- Group 1: Lifeline group, 0 nodes allowed.
- Group 2: Basic on/off (status change report for I2 input), up to 16 nodes.
- Group 3: Notification report (status change report for I2 input), up to 16 nodes.
- Group 4: Binary sensor report (status change of the I2 input), up to 16 nodes

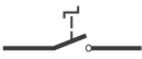

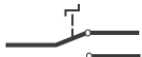
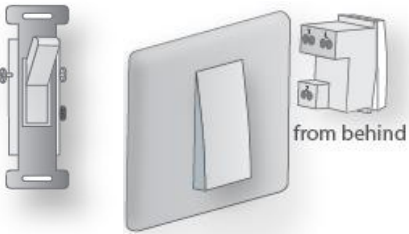

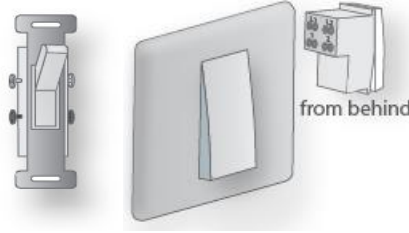

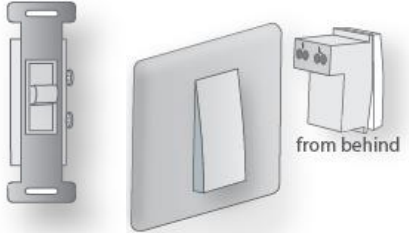
#### End point 3 (Wall Switch I3):

- Group 1: Lifeline group, 0 nodes allowed.
- Group 2: Basic on/off (status change report for I3 input), up to 16 nodes.
- Group 3: Notification report (status change report for I3 input), up to 16 nodes.
- Group 4: Binary sensor report (status change of the I3 input), up to 16 nodes.

#### End point 4 (External Temperature Sensor):

- Group 1: Lifeline group, 0 nodes allowed.
- Group2: Multilevel sensor report (triggered at change of temperature sensor) up to 16 nodes.

# 10. Technical Terms for Switches

Symbol	Switch example images	Definition	EU	USA	Qubino	Other names
		Single pole, single throw (SPST) - One switch controlling one light / circuit of lights	One-way switch	Two-way switch (regular switch)	Toggle switch	Switch; Bi-stable switch
		Single pole, double throw (SPDT) - Two switches controlling the same light / circuit of lights	Two-way switch	Three-way switch	Two-way switch	
		Used when you have three or more switches controlling the same light	Intermedi-ate switch	Four-way switch	Intermedi-ate switch	Crossover switch; Cross connection
		After being released, it goes back to its original state	Momentary switch		Momentary switch	Monostable switch; Push button

## 11. Configuration Parameters

### Parameter no. 1 – In-wall Switch Type for Load 1 (Q1) to control I1

With this parameter, you can select between push-button (momentary) and on/off toggle switch types.

Values (size is 1 byte dec):

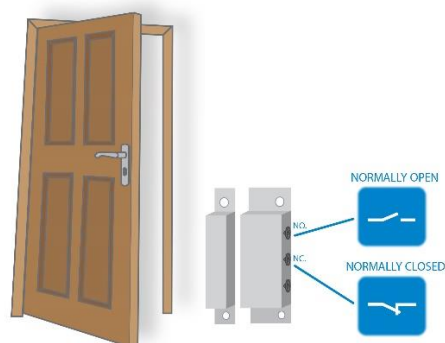
- default value 1
- 0 - push-button (momentary)
- 1 - on/off toggle switch



### Parameter no. 2 – Input 2 contact type

Values (size is 1 byte dec):

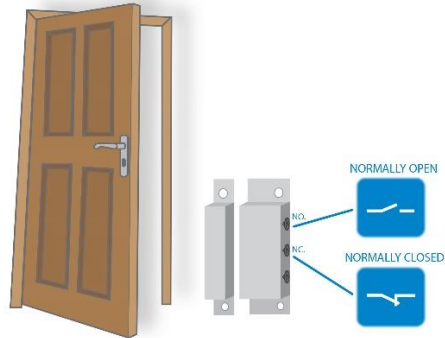
- default value 0
- 0 - NO (normally open) input type
- 1 - NC (normally close) input type



**Parameter no. 3 – Input 3 contact type**

Values (size is 1 byte dec):

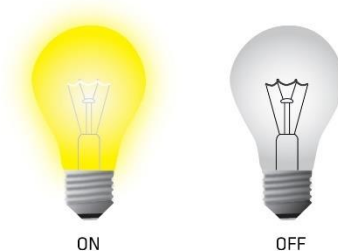
- default value 0
- 0 - NO (normally open) input type
- 1 - NC (normally close) input type

**Parameter no. 10 - Activate / deactivate ALL ON / ALL OFF Functionality**

Flush 1 Relay device responds to commands ALL ON / ALL OFF that may be sent by the primary or secondary gateway (hub) within the Z-Wave network.

Values (size is 2 byte dec):

- default value 255
- 255 - ALL ON active, ALL OFF active
- 0 - ALL ON not active, ALL OFF not active
- 1 - ALL ON not active, ALL OFF active
- 2 - ALL ON active, ALL OFF not active

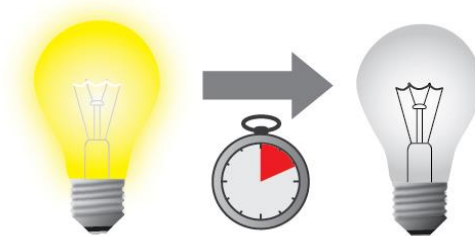


**Parameter no. 11 - Turn Load 1 (Q1) Off Automatically with Timer**

If Load 1 (Q1) is ON, you can schedule it to turn OFF automatically after a period of time defined in this parameter. The timer is reset to zero each time the device receives an ON command, either remotely (from the gateway (hub) or associated device) or locally from the switch.

Values (size is 2 byte dec):

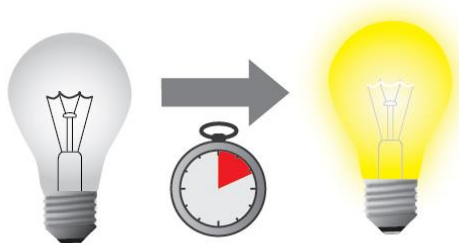
- default value 0
- 0 - Auto OFF Disabled  
1 - 32535 = 1 - 32535 seconds (or milliseconds – see Parameter no. 15) Auto OFF timer enabled for a given amount of seconds (or milliseconds)

**Parameter no. 12 - Turn Load 1 (Q1) On Automatically with Timer**

If Load (Q1) is OFF, you can schedule it to turn ON automatically after a period of time defined in this parameter. The timer is reset to zero each time the device receives an OFF command, either remotely (from the gateway (hub) or associated device) or locally from the switch.

Values (size is 2 byte dec):

- default value 0
- 0 - Auto ON Disabled  
1 - 32535 = 1 - 32536 seconds (or milliseconds – see Parameter no. 15) Auto ON timer enabled- for a given amount of seconds (or milliseconds)



**Parameter no. 15 - Set Timer Units to Seconds or Milliseconds**

Choose if you want to set the timer in seconds or milliseconds in parameters 11 and 12.

Values (size is 1 byte dec):

- default value 0
- 0 – timer set in seconds
- 1 – timer set in milliseconds

Please note that the value for this parameter applies to settings for Q1 load in all of the above parameters (timer on / timer off).

**Parameter no. 30 - Restore on/off status for Q1 load after power failure**

This parameter determines if on/off status is saved and restored for the load Q1 after power failure.

Values (size is 1 byte dec):

- default value 0
- 0 - Device saves last on/off status and restores it after a power failure.
- 1 - Device does not save on/off status and does not restore it after a power failure, it remains off.



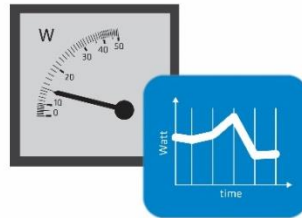
### Parameter no. 40 – Watt Power Consumption Reporting Threshold for Q1 Load

Choose by how much power consumption needs to increase or decrease to be reported. Values correspond to percentages so if 10 is set (by default), the device will report any power consumption changes of 10% or more compared to the last reading.

Values (size is 1 byte dec):

- default value 10
- 0 - Power consumption reporting disabled
- 1 - 100 = 1% - 100% Power consumption reporting enabled. New value is reported only when Wattage in real time changes by more than the percentage value set in this parameter compared to the previous Wattage reading, starting at 1% (the lowest value possible).

NOTE: Power consumption needs to increase or decrease by at least 1 Watt to be reported, REGARDLESS of percentage set in this parameter.

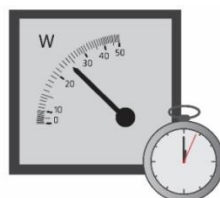


### Parameter no. 42 – Watt Power Consumption Reporting Time Threshold for Q1 Load

Set value refers to the time interval with which power consumption in Watts is reported (0 – 32535 seconds). If 300 is entered (by default), energy consumption reports will be sent to the gateway (hub) every 300 seconds (or 5 minutes).

Values (size is 2 byte dec):

- default value 0
- 0 - Power consumption reporting disabled
- 1 - 32535 = 1 - 32535 seconds. Power consumption reporting enabled. Report is sent according to time interval (value) set here.



### Parameter no. 63 – Choose Normally Closed or Normally Open for Q1 Load

Set value determines the type of the device connected to the Q1 output. The output type can be normally open (NO) or normally closed (NC).

Values (size is 1 byte dec):

- default value 0
- 0 - When switch/device is off the output is 0V (NC).
- 1 - When switch/device is off the output is 240V or 24VDC (NO).



### Parameter no. 100 – Enable / Disable Endpoint I2 or select the Notification Type and the Notification Event

Choose whether the Endpoint I2 is disabled (and not shown on the UI) or enabled (and displayed on the UI). By enabling this endpoint (setting it to be either a notification sensor or a binary sensor), the user also selects a Notification Type and a Notification Event for which notification reports will be sent (in case the endpoint is configured as a notification sensor).

#### Endpoint device type selection:

**-notification sensor (1 - 6):** GENERIC\_TYPE\_SENSOR\_NOTIFICATION,  
SPECIFIC\_TYPE\_NOTIFICATION\_SENSOR

Values (size is 1 byte dec):

- default value 0
- 1 - Home Security; Motion Detection, unknown location
- 2 - CO; Carbon Monoxide detected, unknown location
- 3 - CO2; Carbon Dioxide detected, unknown location
- 4 - Water Alarm; Water Leak detected, unknown location
- 5 - Heat Alarm; Overheat detected, unknown location
- 6 - Smoke Alarm; Smoke detected, unknown location



- 0 - Endpoint, I2 disabled

**-sensor binary (9):** GENERIC\_TYPE\_SENSOR\_BINARY, SPECIFIC\_TYPE\_NOT\_USED

Values (size is 1 byte dec):

- 9 - Sensor binary

NOTE 1: After changing the values of the parameter, first exclude the device (without setting the parameters to their default values), then wait at least 30 seconds to re-include the device!

NOTE 2: When the parameter is set to value 9 the notifications are sent for the Home Security notification type.



**Parameter no. 101 – Enable / Disable Endpoint I3 or select the Notification Type and the Notification Event**

Choose whether the Endpoint I3 is disabled (and not shown on the UI) or enabled (and displayed on the UI). By enabling this endpoint (setting it to be either a notification sensor or a binary sensor), the user also selects a Notification Type and a Notification Event for which notification reports will be sent (in case the endpoint is configured as a notification sensor).

**Endpoint device type selection:**

**-notification sensor (1 - 6):** GENERIC\_TYPE\_SENSOR\_NOTIFICATION, SPECIFIC\_TYPE\_NOTIFICATION\_SENSOR

Values (size is 1 byte dec):

- default value 0
- 1 - Home Security; Motion Detection, unknown location
- 2 - CO; Carbon Monoxide detected, unknown location
- 3 - CO2; Carbon Dioxide detected, unknown location
- 4 - Water Alarm; Water Leak detected, unknown location
- 5 - Heat Alarm; Overheat detected, unknown location

- 6 - Smoke Alarm; Smoke detected, unknown location
- 0 - Endpoint, I2 disabled

**-sensor binary (9):** GENERIC\_TYPE\_SENSOR\_BINARY, SPECIFIC\_TYPE\_NOT\_USED

Values (size is 1 byte dec):

- 9 - Sensor binary

NOTE 1: After changing the values of the parameter, first exclude the device (without setting the parameters to their default values), wait at least 30 seconds and then re-include the device!

NOTE 2: When the parameter is set to the value 9 the notifications are sent for the Home Security notification type.



Image 1: Only input I3 is enabled (without input I2)



Image 2: Enabled inputs I2 and I3

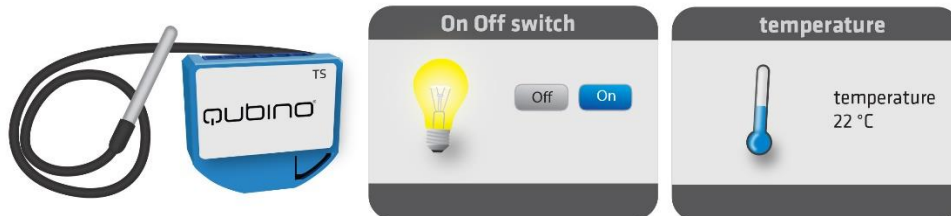
**Parameter no. 110 – Temperature Sensor Offset Settings**

Set value is added to or subtracted from the actual measured value to adjust the temperature report sent by an external sensor (sold separately). This parameter only applies to Celsius temperature unit (the Fahrenheit unit is currently not supported).

Values (size is 2 byte dec):

- default value 32536
- 32536 - Offset is 0 °C.

- 1 - 100 - Where 1 stands for 0.1 and 100 stands for 10.00 °C added to the actual measurement.
- 1001 - 1100 – Where 1001 stands for -0.1 °C and 1100 stands for -10.0 °C subtracted from the actual measurement.



### Parameter no. 120 – Temperature Sensor Reporting Threshold

If an external digital temperature sensor (sold separately) is connected to the device, it reports temperature readings based on the threshold defined in this parameter. This parameter only applies to the Celsius temperature unit (the Fahrenheit unit is currently not supported).

Values (size is 1 byte dec):

- Default value 5 = 0.5°C
- 0 – Reporting disabled
- 1 - 127 = Where 1 stands for 0.1°C and 127 stands for 12.7°C



## 12. Compatibility with Z-Wave Gateways (hubs)

Please check compatibility with your Z-Wave gateway (hub) before you purchase this device. The compatibility table is available online.





[https://qubino.com/manuals/Compatibility\\_with\\_gateways/Compatibility\\_manual\\_Flush\\_1\\_Relay\\_11092019.pdf](https://qubino.com/manuals/Compatibility_with_gateways/Compatibility_manual_Flush_1_Relay_11092019.pdf)

## 13. Technical Specifications

Power supply	110 - 240 VAC $\pm$ 10% 50/60Hz, (24-30VDC)
Rated load current of AC/DC output (resistive load)*	1 X 10A (240VAC) / 1 X 10A / 30VDC
Output circuit power of AC/DC output (resistive load)	2400W (240VAC) / 240W (24VDC)
Power measurement accuracy	P=5-50W, $\pm$ 3% P>50W, $\pm$ 3%
Digital temperature sensor range	-25 ~ +80°C (-13~ 176°F), resolution 0.1°C
Operation temperature	-10 ~ +40°C (14 ~ 104°F)
Z-Wave operation range	up to 30 m indoors (98 ft)
Dimensions (WxHxD) (package)	41,8x36,8x16,9 mm (79x52x22 mm) / 1,65x1,45x0,66 in (3,11x2,05x0,87 in)
Weight (with package)	28g (34g) / 0.98oz (1.20oz)
Electricity consumption	0,4W
For installation in boxes	$\varnothing \geq 60$ mm (2,36 in) or 2M
Switching	Relay
Z-Wave Repeater	Yes

\* In case of loads other than resistive loads, please pay attention to the value of  $\cos \phi$ . If necessary, connect loads less powerful than what they're rated for – this applies to all motor loads. Max current for  $\cos \phi=0,4$  is 3A at 250VAC, 3A at 24VDC L/R=7ms.

## Supported loads

	<b>Electric motor</b>	690W (240VAC) 330W (110VAC)  For power factor = 0,4  In case of inductive loads it is recommended to use RC snubber circuit.**
	<b>Conventional incandescent and halogen lights</b>	2400W (240VAC) 1100W (110VAC)
	<b>LED bulb, compact fluorescent bulb (CFL), low voltage halogen bulbs with electronic transformer</b>	LED: 320W (240VAC) / 150W (110VAC)  CFL*  LVH Electronic transformer: 800W (240VAC) / 380W (110VAC)
	<b>Low voltage halogen bulbs with conventional transformer</b>	*
	<b>Other type of loads</b>	*

\* Please contact Qubino support regarding marked load types:

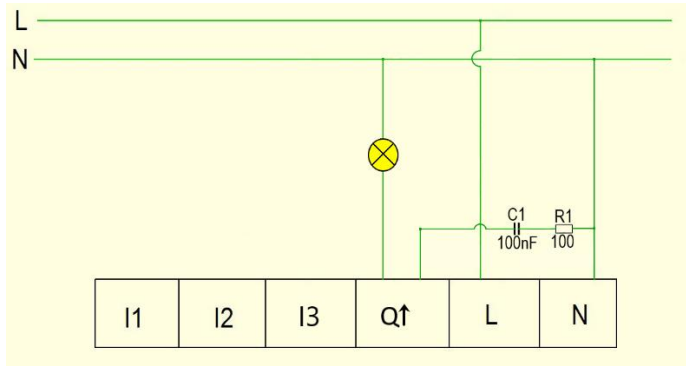
\*\* Please check below for more information about RC snubber

<http://qubino.com/support/#email>

**RC snubber**

RC Snubber must be connected in parallel to the load.

Connection diagram:



Capacitance Value	0.1uF
Voltage	630VDC 275VAC
Resistance Value (Ohm)	47
Power Rating(W)	1/2

**Suggested RC snubber:** P409CE104M275AH470

<https://www.arrow.com/en/products/p409ce104m275ah470/kemet-corporation>

## 14. Package Contents

- Flush 1 Relay Device
- Installation Manual



## 15. Z-Wave Command Classes

ZWAVEPLUS\_INFO\_REPORT\_ROLE\_TYPE\_SLAVE\_ALWAYS\_ON

GENERIC\_TYPE\_SWITCH\_BINARY

SPECIFIC\_TYPE\_POWER\_SWITCH\_BINARY

### **Z-Wave Supported Command Classes:**

COMMAND\_CLASS\_ZWAVEPLUS\_INFO\_V2,

COMMAND\_CLASS\_VERSION\_V2,

COMMAND\_CLASS\_MANUFACTURER\_SPECIFIC\_2,

COMMAND\_CLASS\_DEVICE\_RESET\_LOCALLY\_1,

COMMAND\_CLASS\_POWERLEVEL\_V1,

COMMAND\_CLASS\_BASIC\_V1,

COMMAND\_CLASS\_SWITCH\_ALL\_V1,

COMMAND\_CLASS\_SWITCH\_BINARY\_V1,

COMMAND\_CLASS\_SENSOR\_BINARY\_V1,

COMMAND\_CLASS\_METER\_V4,

COMMAND\_CLASS\_SENSOR\_MULTILEVEL\_V7,

COMMAND\_CLASS\_MULTI\_CHANNEL\_V4,

COMMAND\_CLASS\_ASSOCIATION\_V2,

COMMAND\_CLASS\_MULTI\_CHANNEL\_ASSOCIATION\_V3,

COMMAND\_CLASS\_ASSOCIATION\_GRP\_INFO\_V2,

COMMAND\_CLASS\_CONFIGURATION\_V1,

COMMAND\_CLASS\_MARK,

COMMAND\_CLASS\_BASIC\_V1

**Endpoint 1****Device Class:**

ZWAVEPLUS\_INFO\_REPORT\_ROLE\_TYPE\_SLAVE\_ALWAYS\_ON

GENERIC\_TYPE\_SWITCH\_BINARY

SPECIFIC\_TYPE\_POWER\_SWITCH\_BINARY

**Command Classes:**

COMMAND\_CLASS\_ZWAVEPLUS\_INFO\_V2

COMMAND\_CLASS\_VERSION\_V2

COMMAND\_CLASS\_BASIC\_V1

COMMAND\_CLASS\_SWITCH\_ALL\_V1

COMMAND\_CLASS\_SWITCH\_BINARY\_V1

COMMAND\_CLASS\_METER\_V4

COMMAND\_CLASS\_ASSOCIATION\_V2

COMMAND\_CLASS\_MULTI\_CHANNEL\_ASSOCIATION\_V3

COMMAND\_CLASS\_ASSOCIATION\_GRP\_INFO\_V2

COMMAND\_CLASS\_MARK

COMMAND\_CLASS\_BASIC\_V1

**Endpoint 2 (I2):****Device Class:**

ZWAVEPLUS\_INFO\_REPORT\_ROLE\_TYPE\_SLAVE\_ALWAYS\_ON

GENERIC\_TYPE\_SENSOR\_NOTIFICATION

SPECIFIC\_TYPE\_NOTIFICATION\_SENSOR

**Command Classes:**

COMMAND\_CLASS\_ZWAVEPLUS\_INFO

COMMAND\_CLASS\_VERSION\_V2

COMMAND\_CLASS\_SENSOR\_BINARY

COMMAND\_CLASS\_BASIC

COMMAND\_CLASS\_NOTIFICATION\_V5

COMMAND\_CLASS\_ASSOCIATION\_V2

COMMAND\_CLASS\_MULTI\_CHANNEL\_ASSOCIATION\_V3

COMMAND\_CLASS\_ASSOCIATION\_GRP\_INFO\_V2

COMMAND\_CLASS\_MARK

COMMAND\_CLASS\_BASIC

### **Endpoint 3 (I3):**

#### **Device Class:**

ZWAVEPLUS\_INFO\_REPORT\_ROLE\_TYPE\_SLAVE\_ALWAYS\_ON

GENERIC\_TYPE\_SENSOR\_NOTIFICATION

SPECIFIC\_TYPE\_NOTIFICATION\_SENSOR

#### **Command Classes:**

COMMAND\_CLASS\_ZWAVEPLUS\_INFO\_V2

COMMAND\_CLASS\_VERSION\_V2

COMMAND\_CLASS\_SENSOR\_BINARY\_V1

COMMAND\_CLASS\_BASIC\_V1

COMMAND\_CLASS\_NOTIFICATION\_V5

COMMAND\_CLASS\_ASSOCIATION\_V2

COMMAND\_CLASS\_MULTI\_CHANNEL\_ASSOCIATION\_V3

COMMAND\_CLASS\_ASSOCIATION\_GRP\_INFO\_V2

COMMAND\_CLASS\_MARK

COMMAND\_CLASS\_BASIC\_V1

### **Endpoint 4:**

#### **Device Class:**

ZWAVEPLUS\_INFO\_REPORT\_ROLE\_TYPE\_SLAVE\_ALWAYS\_ON

GENERIC\_TYPE\_SENSOR\_MULTILEVEL

SPECIFIC\_TYPE\_ROUTING\_SENSOR\_MULTILEVEL

**Command Classes:**

COMMAND\_CLASS\_ZWAVEPLUS\_INFO\_V2

COMMAND\_CLASS\_VERSION\_V2

COMMAND\_CLASS\_ASSOCIATION\_V2

COMMAND\_CLASS\_MULTI\_CHANNEL\_ASSOCIATION\_V3

COMMAND\_CLASS\_ASSOCIATION\_GRP\_INFO\_V2

COMMAND\_CLASS\_SENSOR\_MULTILEVEL\_V7

NOTE 1: The Endpoint 4 command class list only applies if an external digital temperature sensor (sold separately) is connected to the TS terminal. If the sensor is not connected, the following command class is not supported by the device:

COMMAND\_CLASS\_SENSOR\_MULTILEVEL\_V7

This device can be included and operated in any Z-Wave network with other Z-Wave certified devices from any other manufacturers. All constantly powered nodes in the same network will act as repeaters regardless of the vendor in order to increase reliability of the network.

NOTE2: The device supports the following

COMMAND\_CLASS\_NOTIFICATION\_V5events:

- Smoke Alarm v2 –Smoke detected, unknown location (0x02)
- CO Alarm v2 –Carbon Monoxide detected, unknown location (0x02)
- CO2Alarm –Carbon Dioxide detected, unknown location (0x02)
- Heat Alarm v2 –Overheat detected, unknown location (0x02)
- Water Alarm v2 –Water Leak detected, unknown location (0x02)
- Home Security –Motion Detection, unknown location (0x08)

COMMAND\_CLASS\_METER

- Default values:
  - Rate Type = 1 (Import)

Scale = 0 (kWh)



**About Z-Wave:**

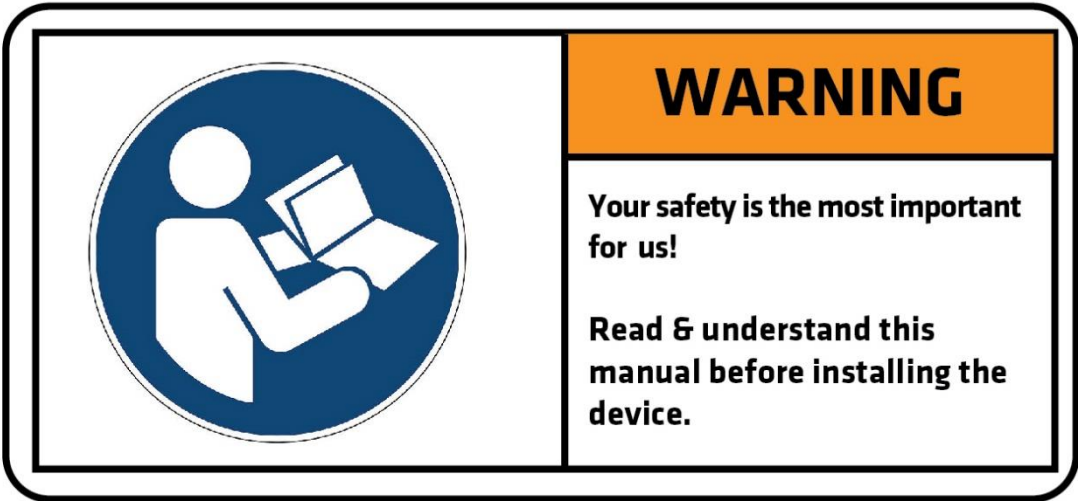
The Z-Wave protocol is an interoperable, wireless, RF-based communications technology designed specifically for control, monitoring, and status reading applications in residential and light commercial environments. Mature, proven, and broadly deployed (with over 50 million products sold worldwide), Z-Wave is by far the world market leader in wireless control, bringing affordable, reliable, and easy-to-use 'smart' products to millions of people in every aspect of daily life.

Source: [www.z-wavealliance.org](http://www.z-wavealliance.org)

# 17. Safety Information

For Qubino, safety is first, so we have prepared lots of safety tips and information that can be found throughout this manual.

**To ensure your safety, please read this manual carefully before installing the device; follow the instructions exactly.** The manufacturer (GOAP d.o.o. Nova Gorica) shall not be legally responsible for any equipment damage or personal injury caused by incorrect installation or operation other than that covered in this manual.



**i** Please check the Technical Specifications and Electrical Diagram chapters, as well as fuse requirements in the Installation chapter before installing the device.

## 18. Flush 1 Relay - Available Frequencies

ORDERING CODE (MODEL NUMBER)	POWER SUPPLY FREQUENCY	Z-WAVE FREQUENCY*
ZMNHAD1	50/60 Hz	868,4 MHz
ZMNHAD2	50/60 Hz	921,4 MHz
ZMNHAD3	50/60 Hz	908,4 MHz
ZMNHAD4	50/60 Hz	869,0 MHz
ZMNHAD5	50/60 Hz	916,0 MHz
ZMNHAD6	50/60 Hz	868,4 MHz
ZMNHAD7	50/60 Hz	919,8 MHz
ZMNHAD8	50/60 Hz	865,2 MHz
ZMNHAD9	50/60 Hz	922,5 MHz
ZMNHADA	50/60 Hz	919,7 – 921,7 – 923,7 MHz
ZMNHADB	50/60 Hz	868,1 MHz
ZMNHADC	50/60 Hz	868,1 MHz
ZMNHADD	50/60 Hz	919,8 MHz
ZMNHADDE	50/60 Hz	920,9 MHz

\*You can check the Z-Wave frequency in your country here:

<https://www.silabs.com/products/wireless/mesh-networking/z-wave/benefits/technology/global-regions?cid=nat-acq-zwv-041818>



## 19. Important Disclaimer

Z-Wave wireless communication is not always 100% reliable. This device should not be used in situations in which life and/or valuables are solely dependent on its functioning. If the device is not recognized by your gateway (hub) or shows up incorrectly, you may need to change the device type manually and make sure your gateway (hub) supports multi-channel devices. Contact us for help before returning the device: <http://qubino.com/support/#email>

## 20. Warning

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being. When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposal free of charge.

## 21. Regulations

### FCC COMPLIANCE STATEMENT:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not in-stalled and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: —Reorient or relocate the receiving antenna. —Increase the separation between the equipment and receiver. —Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. —Consult the dealer or an experienced radio/ TV technician for help.

## Legal Notice

This user manual is subject to change and improvement without notice. GOAP d.o.o. Nova Gorica reserves all rights to revise and update all documentation without any obligation to notify any individual or entity.

## Declaration of Conformity

Qubino Flush 1 Relay device is in compliance with the essential requirements and other relevant provisions of the Low voltage (LVD) Directive (2014/35/EU), Electromagnetic Compatibility (EMC) Directive (2014/30/EU), Radio Equipment Directive (2014/53/EU), Directive RoHS 2 (2011/65/EU) and Directive ErP (2009/125/EC).

## WEEE

According to the WEEE (Waste electrical and electronic equipment) Directive, do not dispose of this product as household waste or commercial waste. Waste electrical and electronic equipment should be appropriately collected and recycled as required by practices established for your country. For information on recycling of this product, please contact your local authorities, your household waste disposal service or the shop where you purchased the product.



**NOTE: User manual is valid for device with SW version S7 (SW version is part of P/N)!**

**Example:P/N: ZMNHADxHxS7Px**

**Goap d.o.o. Nova Gorica**

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Date: 17.02.2022; V 71.00.1

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[DON'T MISS OTHER INVENTIONS FROM QUBINO– CLICK HERE AND CHECK OUT QUBINO'S COMPLETE PORTFOLIO](#)