



qubino[®]
Your little magic for the smartest home.

USER MANUAL **EN**

LUXY SMART LIGHT



The LUXY Smart Light is ideal for gentle illumination of any room and for visual and sound notifications.

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About Qubino

Qubino is a family of innovative Z-Wave devices, many of them the smallest of their kind. Numerous breakthrough innovations, 100% quality control, and responsive customer service make Qubino the number one choice for making your life more comfortable.

Qubino enables you to transform – inexpensively and invisibly – any traditional electric device into a smart, connected one that you can control with your smart phone. Qubino devices are simple to install and use, but also extremely versatile - they offer a wealth of additional features and parameters for you to play with.

We love helping people who enjoy creating new ideas for their home and then using their hard work and skill to turn those ideas into reality. We admire their passion and resourcefulness. We do our best to supply you with products that will enable you to create a unique and special home for yourself. We innovate so that you can be free to make the smartest home possible. With just a touch of magic.

"Simple is smart." We believe it is smart to make complex things simple. But only when this means simple for our customers, not for ourselves. We think a lot so that you won't have to when it comes to installing or using our devices.

For more information visit: www.qubino.com



About Z-Wave:

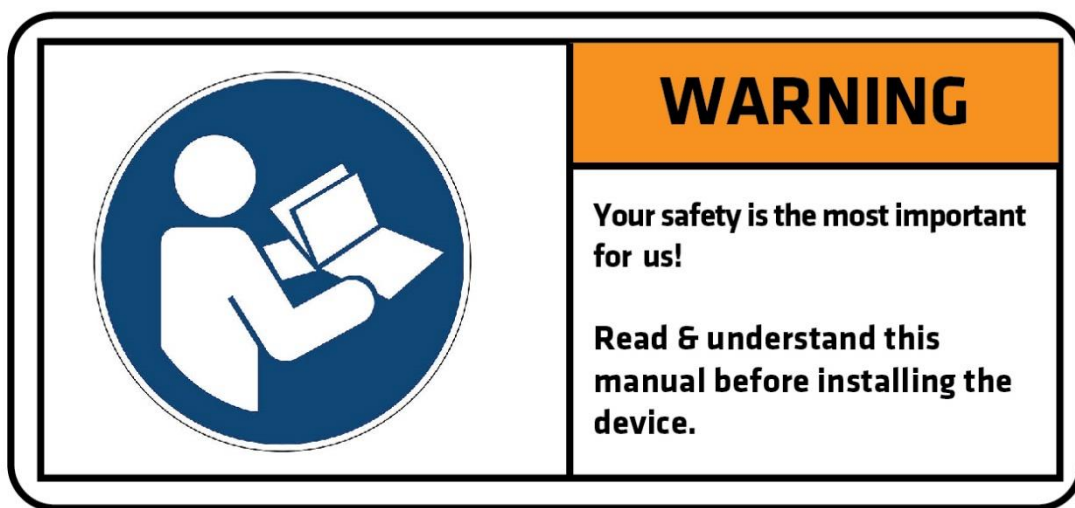
The Z-Wave protocol is an interoperable, wireless, RF-based communications technology designed specifically for control, monitoring, and status reading applications in residential and light commercial environments. Mature, proven, and broadly deployed (with over 50 million products sold worldwide), Z-Wave 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

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.

LUXY Smart Light - Available Frequencies

ORDERING CODE (MODEL NUMBER)	POWER SUPPLY FREQUENCY	Z-WAVE FREQUENCY*
ZMNHQD1	50 Hz	868,4 MHz
ZMNHQD2	50 Hz	921,4 MHz
ZMNHQD3	60 Hz	908,4 MHz
ZMNHQD4	50 Hz	869,0 MHz
ZMNHQD5	50 Hz	916,0 MHz
ZMNHQD7	50Hz	919,8 MHz
ZMNQXD8	50 Hz	865,2 MHz
ZMNHQD9	50/60 Hz	922,5 MHz
ZMNHQDA	60 Hz	920,90 MHz

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

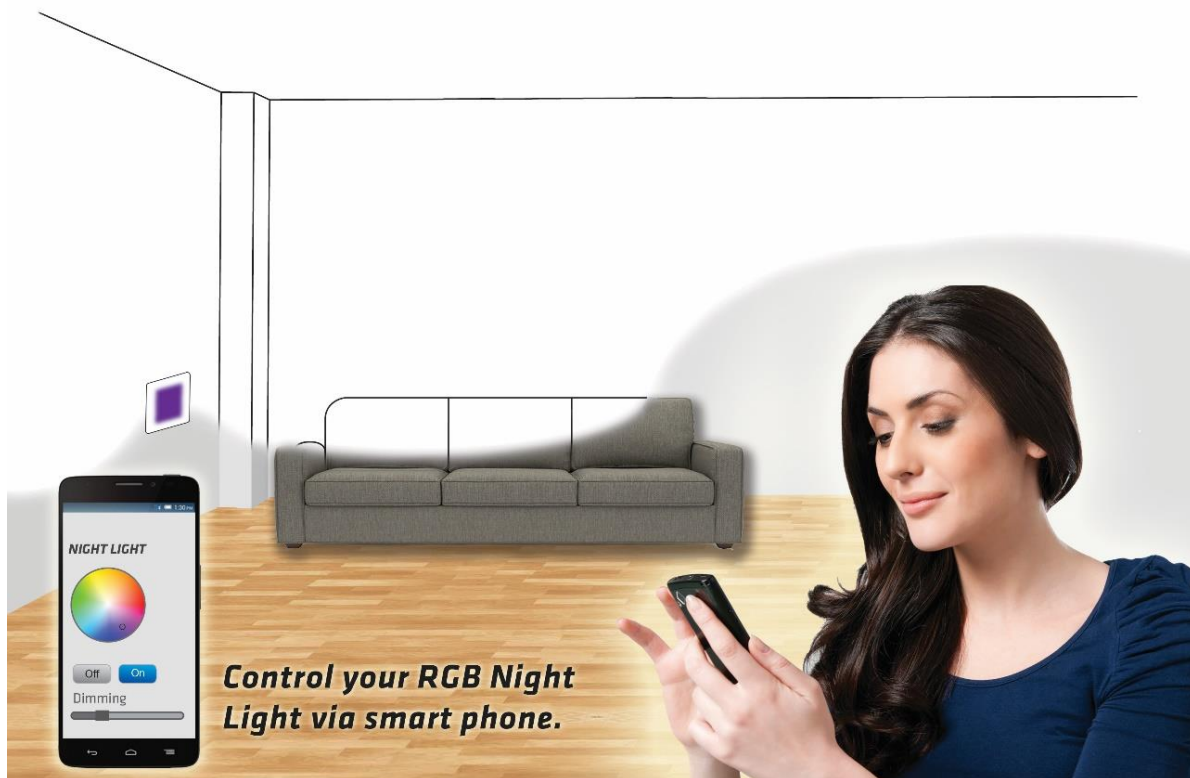
<https://www.silabs.com/products/wireless/mesh-networking/z-wave/benefits/technology/global-regions?cid=nat-acq-zwv-041818>

Where To Buy

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

1. Introduction

The first Z-Wave LUXY Smart Light. Installed in anywhere in the house, it gently illuminates the rooms of your home. You can choose between 16 million colours to fit your personal preference.



The frame design of the LUXY Smart Light is flexible. You can choose between plastic and natural materials such as wood or glass. It will fit our interior design and look great in any room.

The LUXY Smart Light is the only LUXY Smart Light the world which has a hidden integrated beeper, so you can use it as a unique combination of sound and visual colour alarm. The LUXY Smart Light can be triggered by other devices, such as a flood detector, motion sensor, bell button, etc. The LUXY Smart Light will visually notify you with a coloured blinking or a loud sound alarm when necessary. So you can easily use it as an alarm clock as well, among countless of other options.

It can be controlled manually via 4 touch buttons hidden under the surface and with the additional light switch or wirelessly via a smart phone or tablet. With multiple control options you will keep the LUXY Smart Light always close to you, increasing your comfort with a touch of a button.

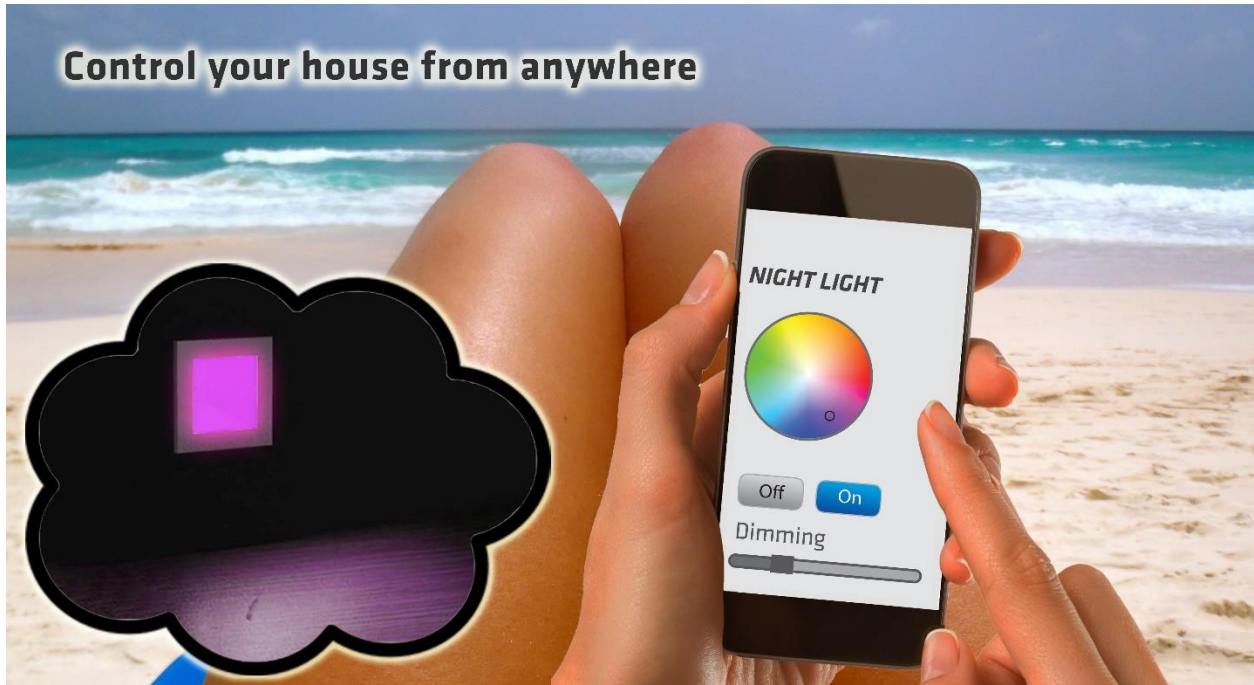
It comes with 3 different lighting effects which are inspired by nature and simulate the ocean's colours, the rainbow and the sunrise.

It can be pre-programmed turn on automatically when dark or when movement is detected. It can also be programmed to turn on or off at any specific time.

The Qubino LUXY Smart Light also acts as a Z-Wave repeater to improve the range and stability of the Z-Wave network.

LUXY Smart Light supported functions:

Choosing among 16 million colours	Lighting effects - Ocean	Lighting effects - Rainbow	Lighting effects - Sunrise	Automatically turn ON/OFF	Associations	Z-Wave Repeater	Smart Start	Integrated Beeper	Dimming	4 Touch Buttons
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓



2. How to Control Your LUXY Smart Light

CONTROL YOUR LUXY SMART LIGHT WIRELESSLY and maximize your comfort

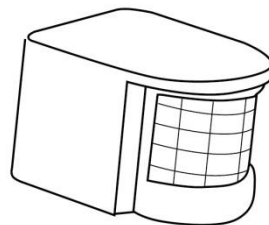
- Connect it to your Z-Wave gateway (hub) and control it remotely via a smartphone



- Connect it to your Z-Wave gateway (hub) and pre-program it to work according to the scenes (such as the time schedule etc.)

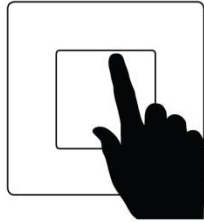


- Connect it to your Z-Wave sensors and devices (motion & flood sensor) and program it to work according to the sensors triggers



WITH YOUR FINGER

- With 4 capacitive inputs hidden under the surface

**VIA WIRE**

- Connect it to an additional light switch and control it like a regular light
- Connect it to a motion sensor and it will turn on automatically



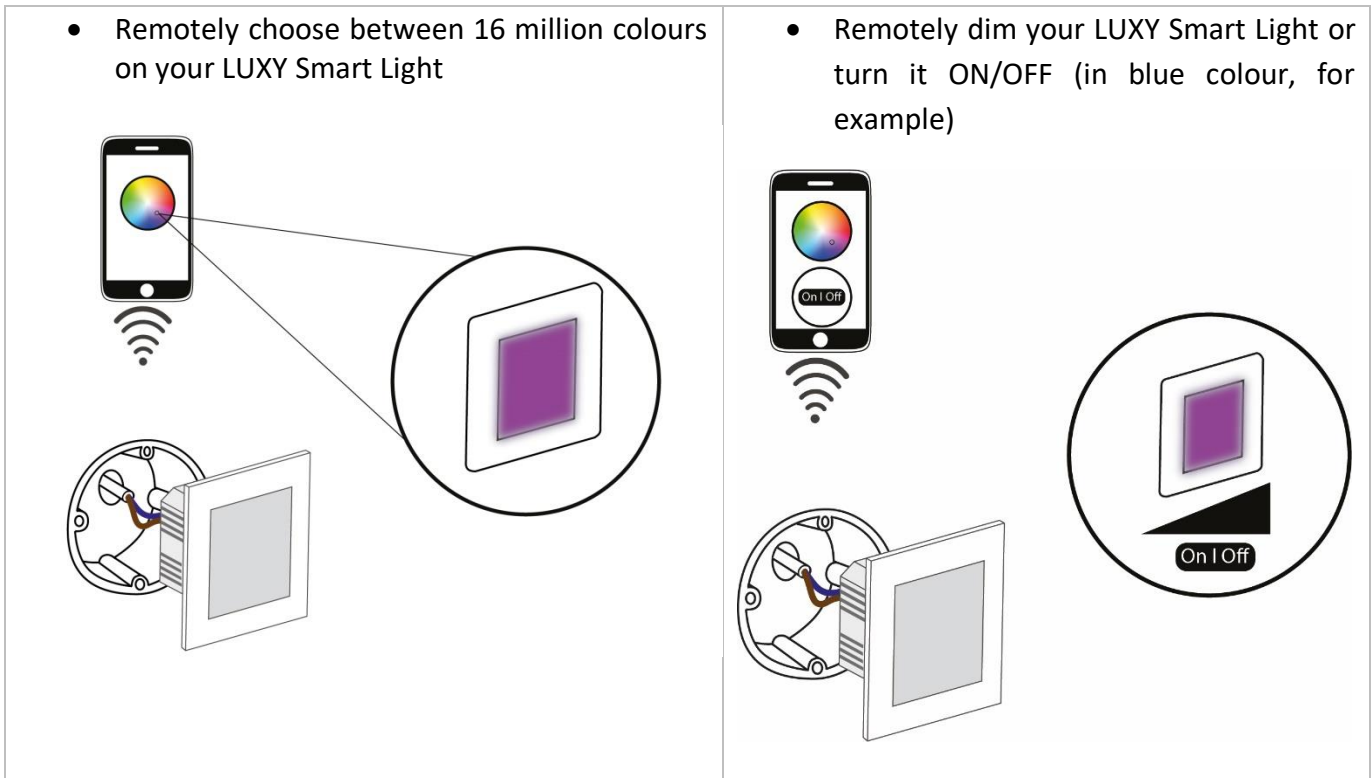
3. Use Cases

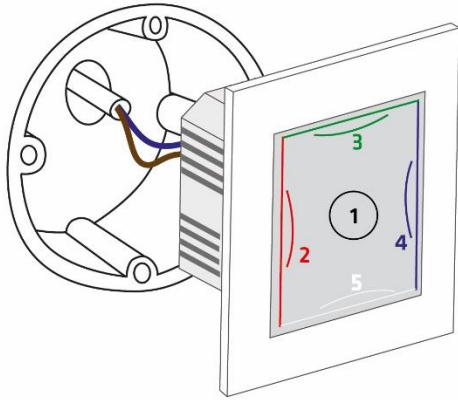
The LUXY Smart Light can be used in many different scenes, which can help make your life more comfortable. We have prepared a few of them for you, so you can get an idea for your next smart home project. Of course, there are countless options how to use Qubino LUXY Smart Light to remotely control devices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

3.1. Usage examples for LUXY Smart Light

3.1.1. Lighting

Example where LUXY Smart Light is used as an innovative light source for gentle and personalized illumination of your home in 16 million colours





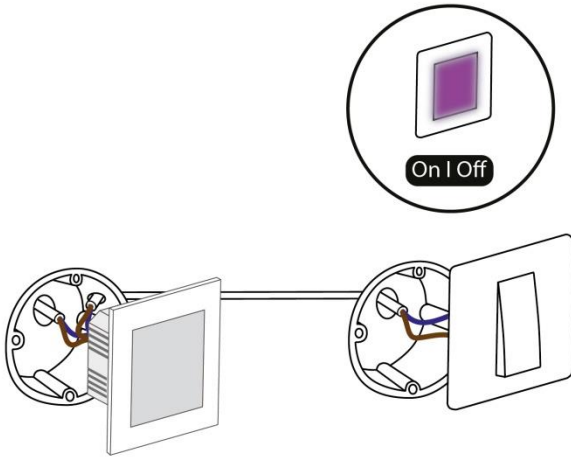
- Control the LUXY Smart Light with 4 integrated touch buttons, which allow you to:

Down – White colour (Dimming according to last state)

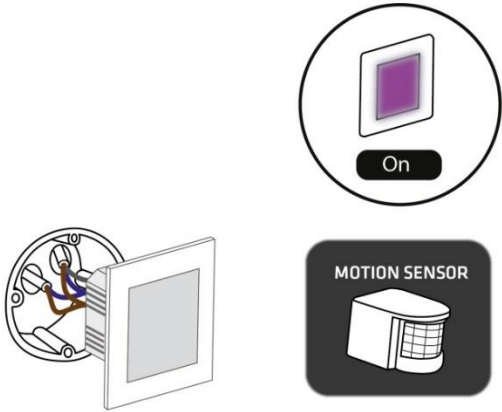
Right – Lighting effects mode

Up – Basic On/Off (Dimming mode)

Left – Colour spectrum mode

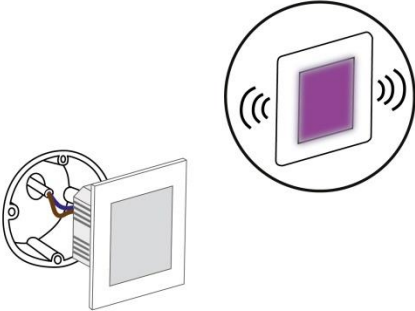


- Option to connect and control the LUXY Smart Light with the light switch
- Parameter defining between a switch and push-button
- Supports dimming
- Motion Sensor returns on the last state and turns it off when motion is over
- Motion sensor with memory, turns on the last state and turns it off after amount of time

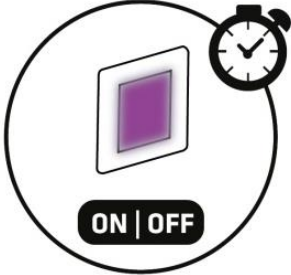
	<ul style="list-style-type: none">• Connection with the motion sensor allows you to turn ON the LUXY Smart Light in any colour you like (in blue colour, for example), when the movement is detected.• Motion sensor turns on the last state and turns it off when motion is over• Motion sensor with memory turns on the last state and turns it off after amount of time
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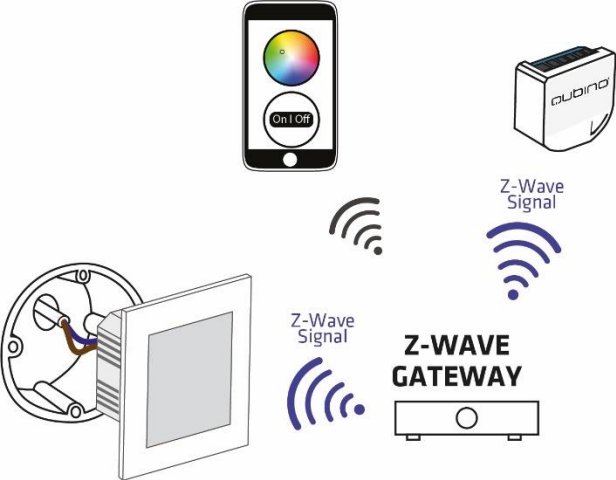
3.1.2. Alarm

Example where LUXY Smart Light is used as an alarm with sound and visual notifications in case of danger (in case of a flood)

	<ul style="list-style-type: none">• Detects possible flood and receives flood notification (starts flashing yellow/off and then alarm activates 1 sec on/1sec off)• Detects movement• For all other detections after receiving notification (starts flashing red/off and then alarm activates 1sec on/1sec off)• Easily turning off the alarm via Zwave command or capacitive input
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3.2. Additional features of LUXY Smart Light

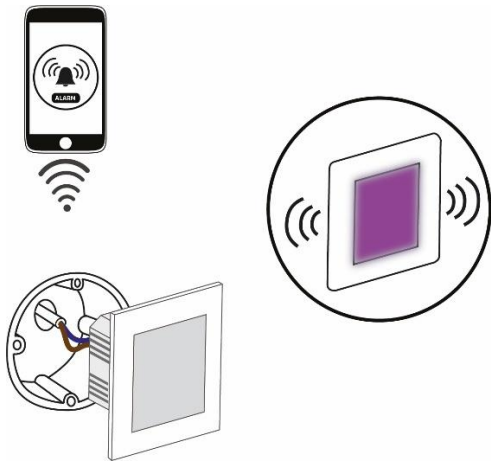
	<ul style="list-style-type: none">• Do you often forget to turn off the LUXY Smart Light when you fell asleep?• The LUXY Smart Light can automatically turn on or off after a set period of time (when you or your kids fall asleep). For example, the LUXY Smart Light will automatically turn off if it's been on for 30 minutes. This function is independent of other scenes and gateway (hub) commands.
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	<ul style="list-style-type: none">• Want to control other devices in your Z-Wave network with the LUXY Smart Light?• Connect the LUXY Smart Light with other devices in your network to remotely and automatically trigger another Z-Wave device. And have other Z-Wave devices trigger your Qubino LUXY Smart Light.
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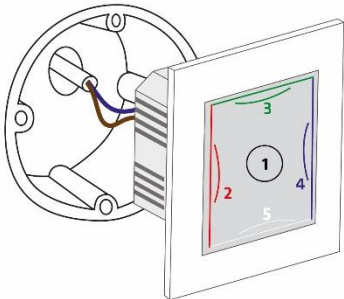
4. Advantages and Highlights

4.1. Advantages

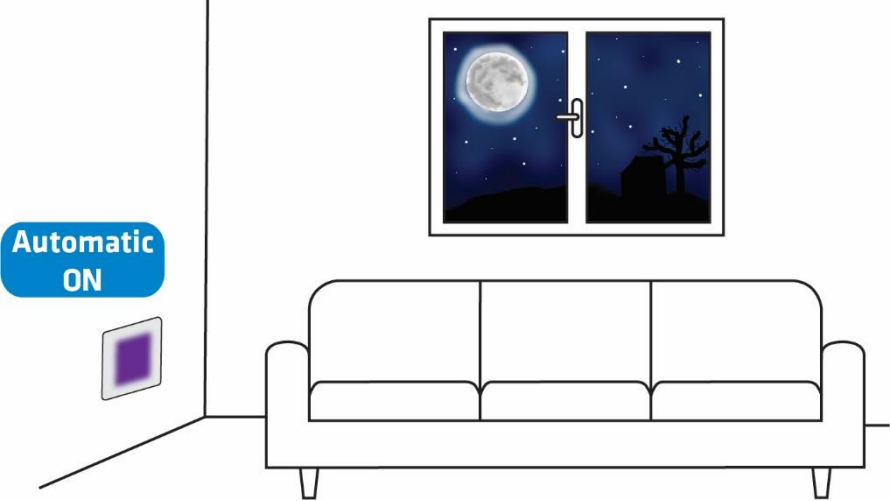
- Qubino LUXY Smart Light is **the only LUXY Smart Light in the world with integrated beeper** and can be transformed into our personalized alarm. The beeper can be triggered by other connected devices, such as a flood detector, motion sensor, leakage detector, etc. In case of intrusion or water leakage, the LUXY Smart Light will **notify you visually with coloured blinking (you can choose among 16 million colours) and/or with a loud sound alarm**.



- Qubino LUXY Smart Light is the only Smart Light in the world which can be **controlled either manually via 4 hidden capacitive inputs** which are designed in a way so they don't interfere with the light source **or wirelessly with just a simple tap on your smartphone (via Z-Wave)**.



- Qubino LUXY Smart Light is the only Smart Light in the world which can be **pre-programmed according to your needs**. For example, it can be pre-programmed to turn on automatically when movement is detected by motion sensor. It can also be programmed to turn on or off at any specific time.



- Qubino LUXY Smart Light comes with **pre-programmed nature inspired lighting effects: Ocean, Rainbow, Nature and Sunrise** which will ensure you a relaxing lighting experience to help you start the day with more energy or to soothe you after a tough day.



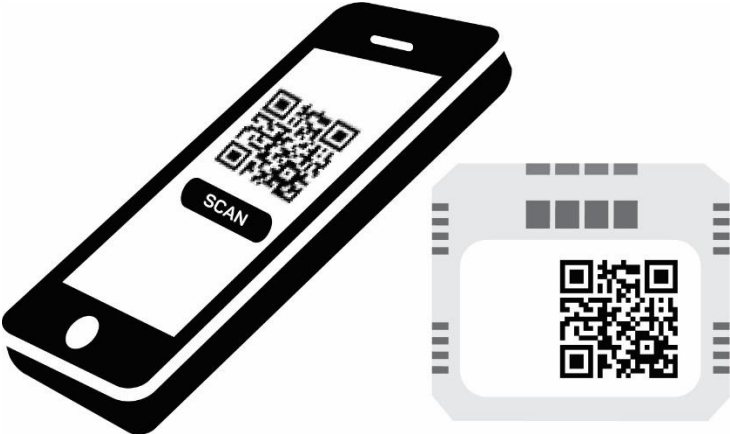
- Qubino LUXY Smart Light is **the only Smart Light in the world which has an adjustable frame**. You have an option to choose between plastic and natural materials such as wood or glass



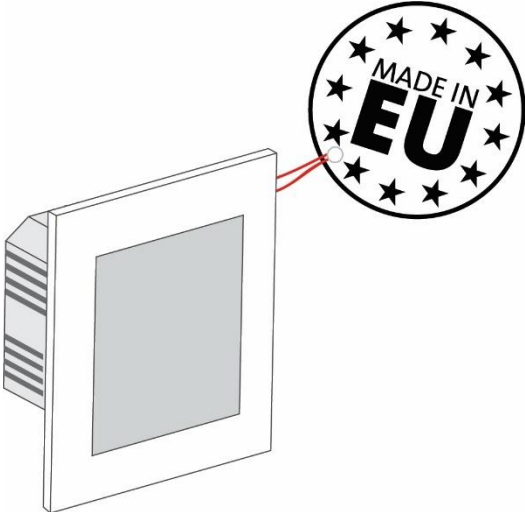
- Qubino guarantees **100% device quality**. Such high quality can be delivered because every Qubino goes through rigorous quality control standards throughout the production process. Every device has a unique serial number and a part number, which are assigned to the device only after it goes through 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 LUXY Smart Light is **engineered and manufactured in the EU**, and contains only the highest quality components.



4.2. Highlights

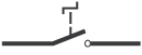

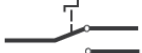
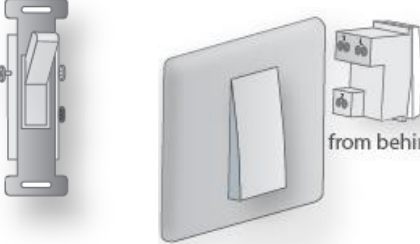

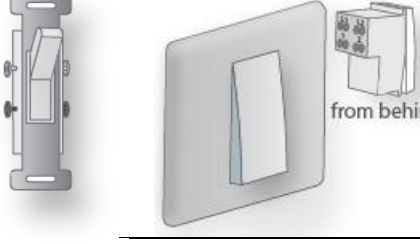
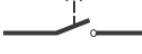
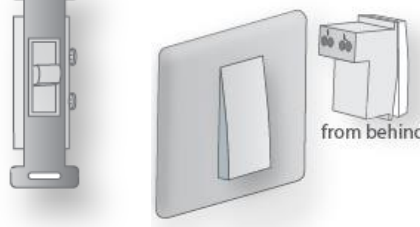
- Features one of the easiest and quickest installations of devices of this kind
- Install it anywhere you like (hallway, stairway, bathroom, WC, bedroom, living room, garage, terrace, etc.)
- Modern and minimalistic design
- You can choose between 16 million colours to fit your personal preference
- Energy efficient
- Saves and restores the last status after a power failure
- Supports SmartStart mode for quick set up
- 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 triggered by other Z-Wave device

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

5. Package Contents

- LUXY Smart Light
- Glass Frame
- Mounting Frame with Claws
- Installation Manual

6. 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	Intermediate switch	Four-way switch	Intermediate switch	Crossover switch; Cross connection
		After being released, it goes back to its original state	Momentary switch		Momentary switch	Monostable switch; Push button

7. 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.

[Se doda compatibility manual za NL.pdf, ko bo narejen](#)

8. 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: Adele contact 503Si/1 DS according to the standard IEC60669-2-1.

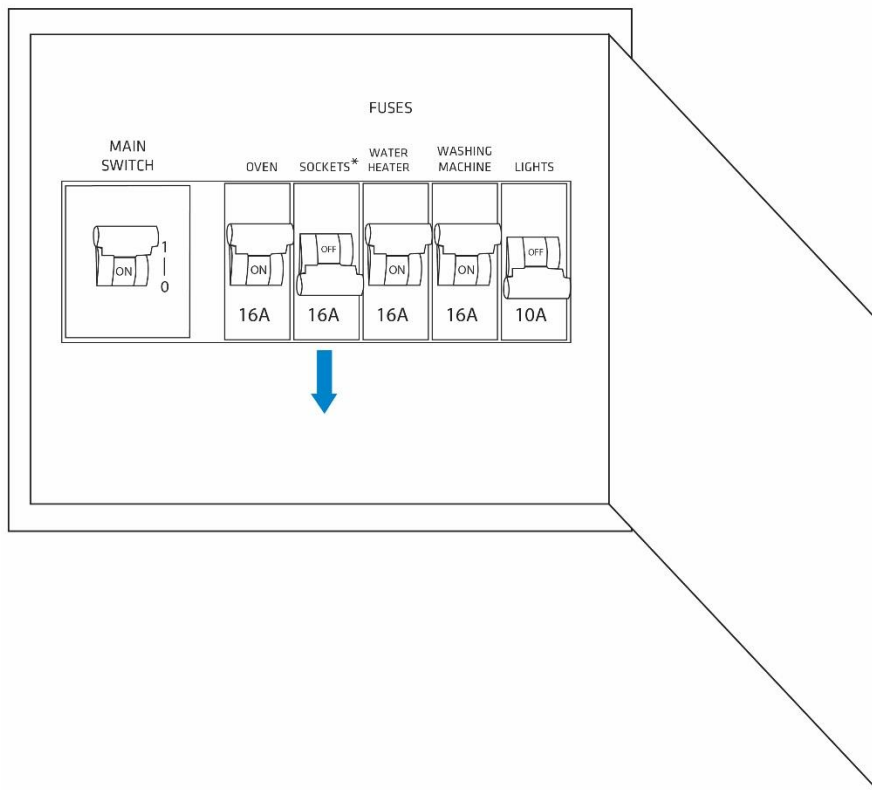
8.1. Installing the device

The installation 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.

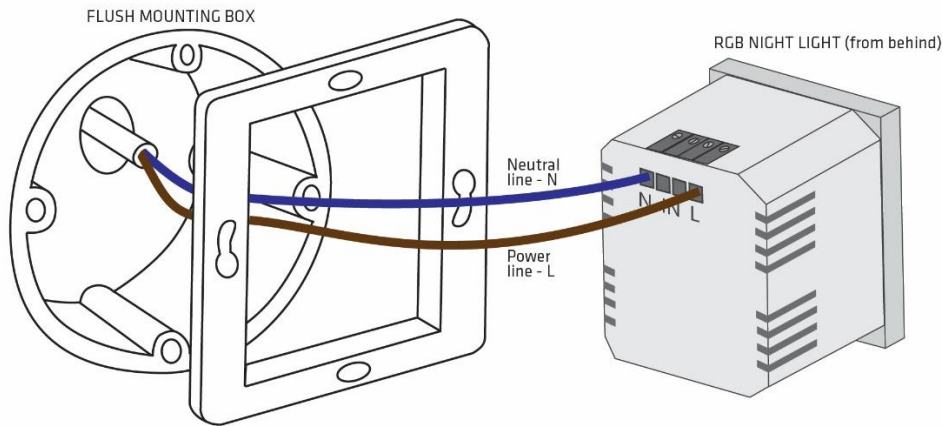
STEP 1



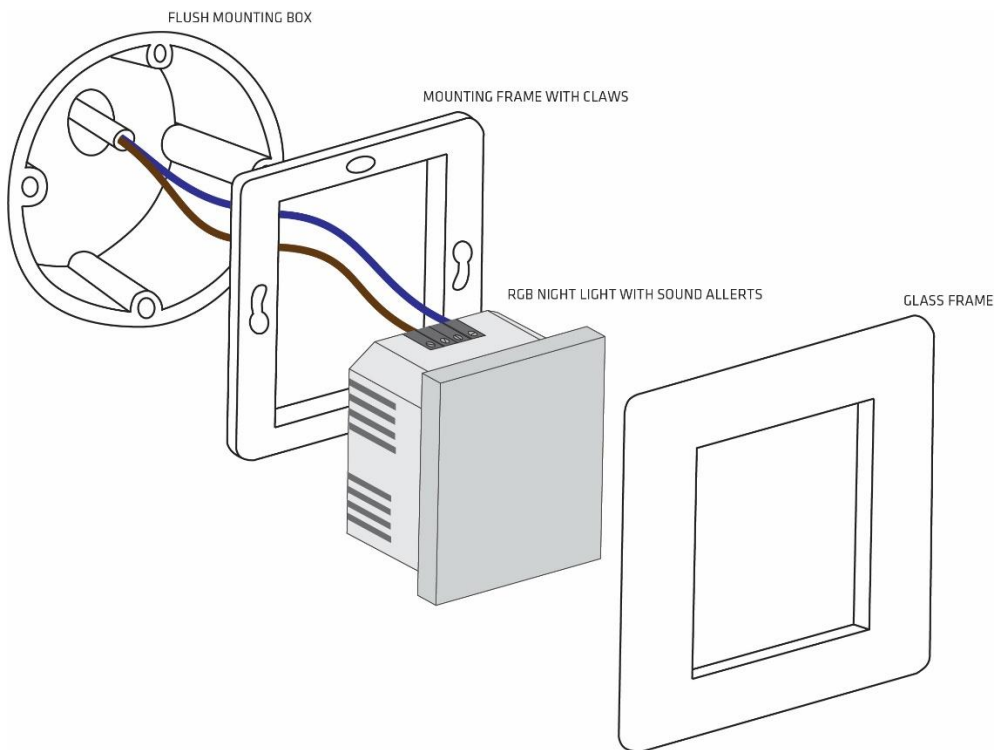
Step 2 – Installing the device:

Connect the device to the power supply

STEP 2

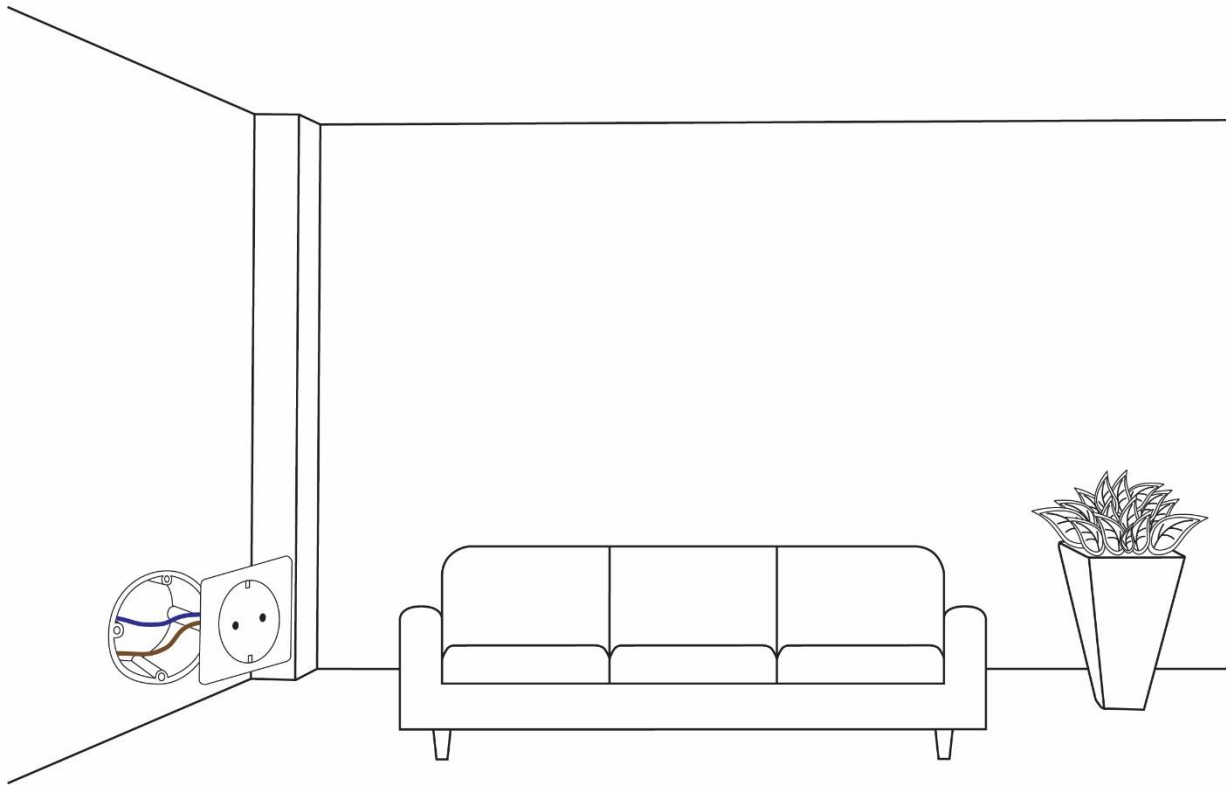


Insert the device into flush mounting box

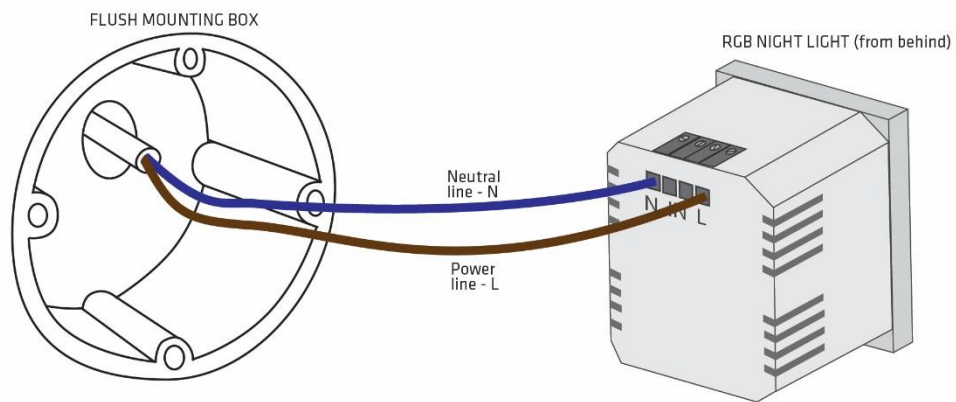


Installation of the LUXY Smart Light into places where you have sockets much

Before Qubino installation:

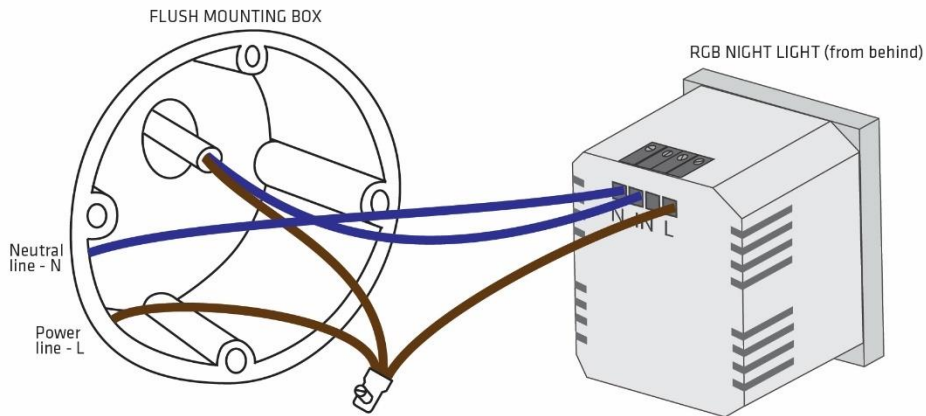
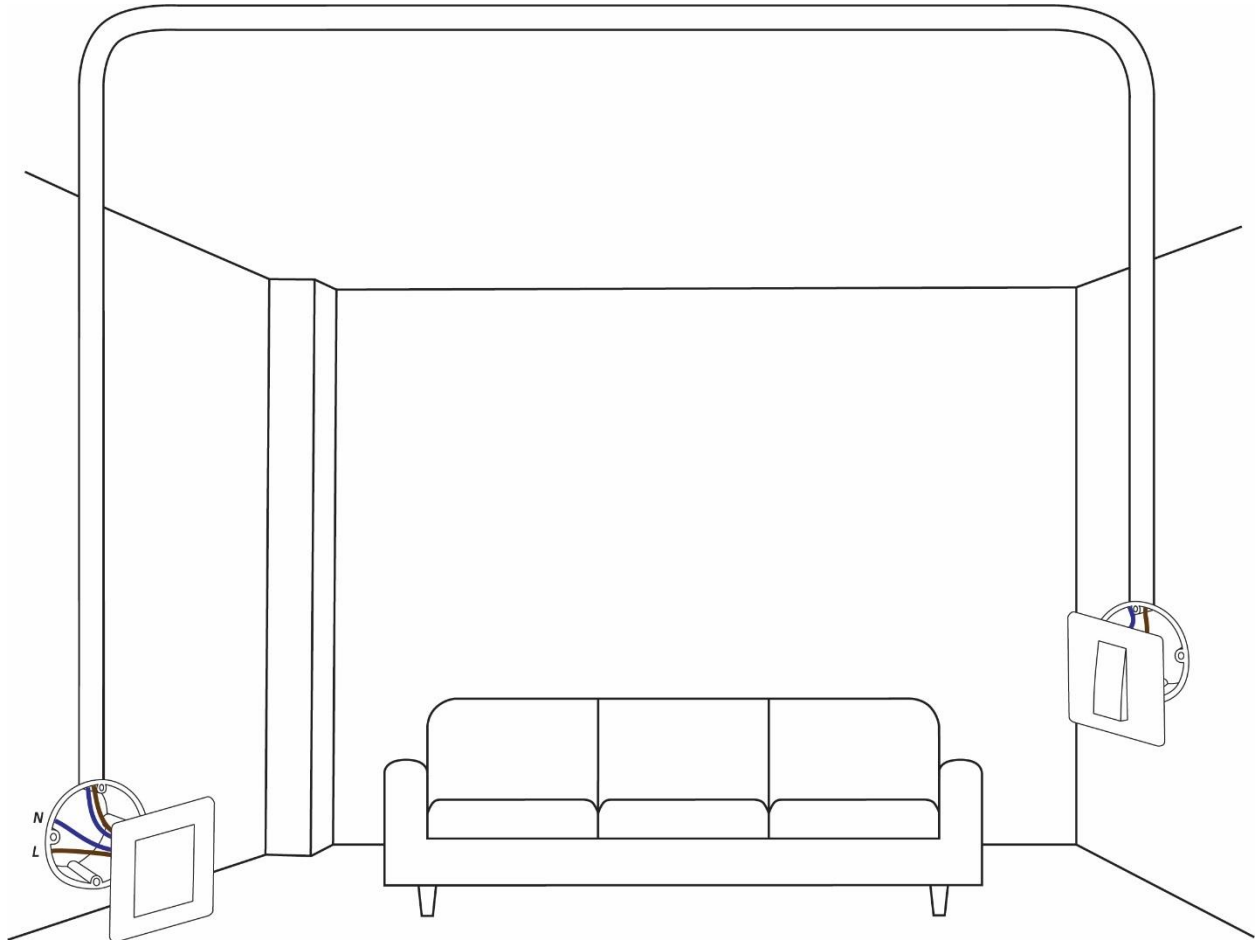


After Qubino installation:

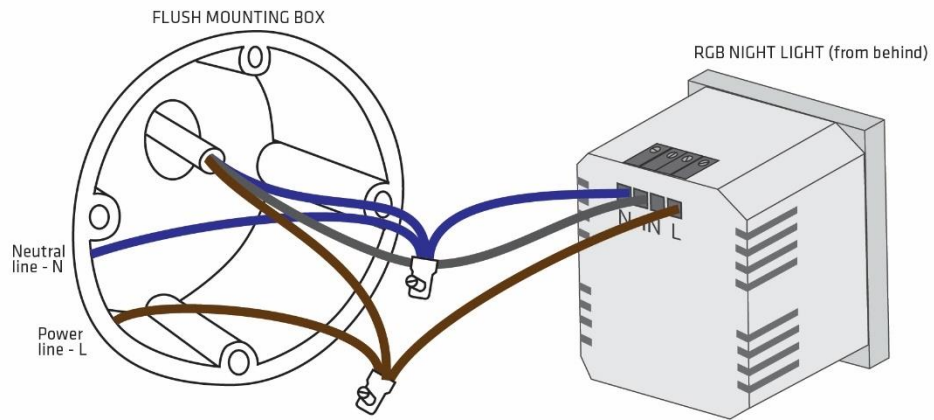
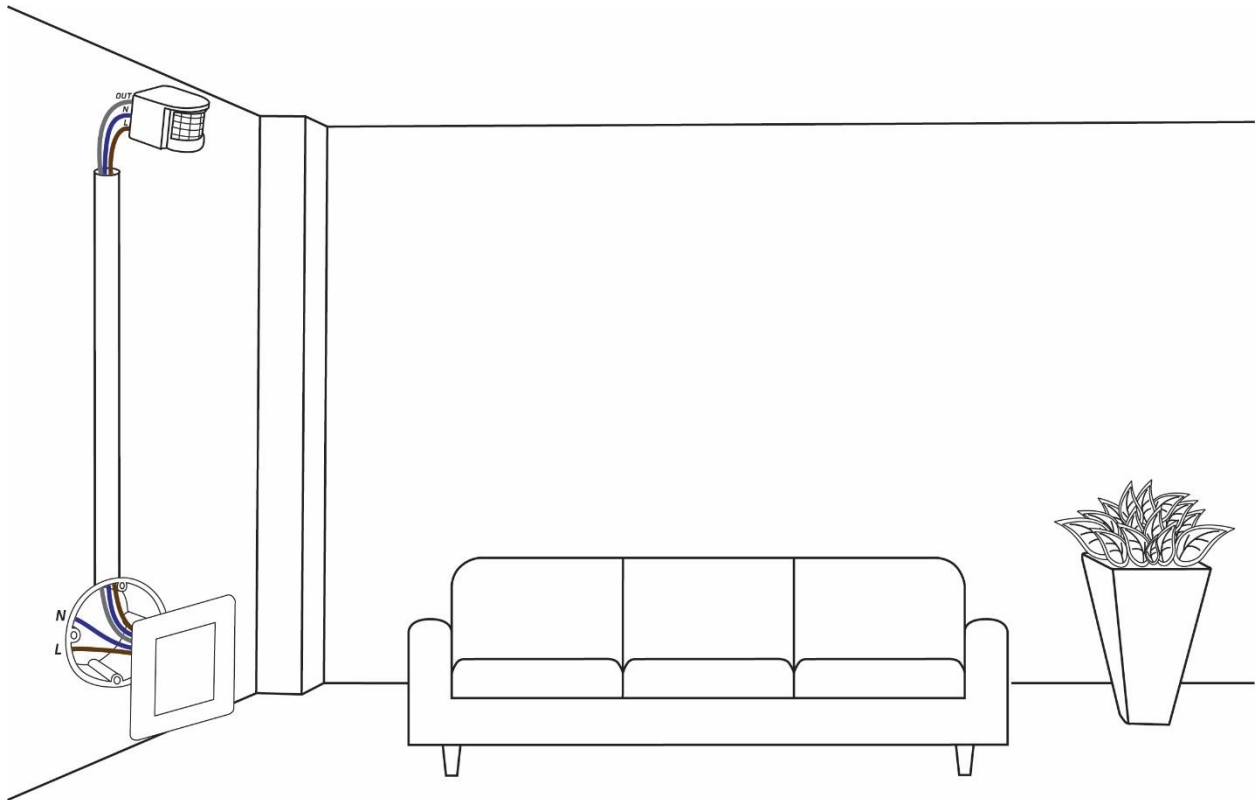


*When installing the RGB Night Light you have to remove the socket

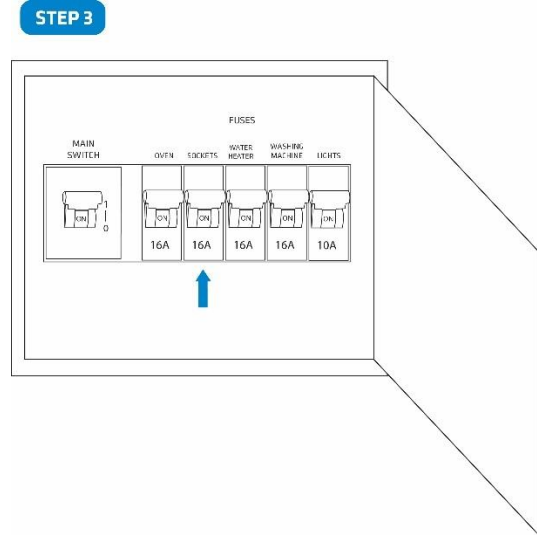
Connection of the LUXY Smart Light with light switch



Connection of the LUXY Smart Light with motion sensor



Step 3 – Turn ON the fuse:



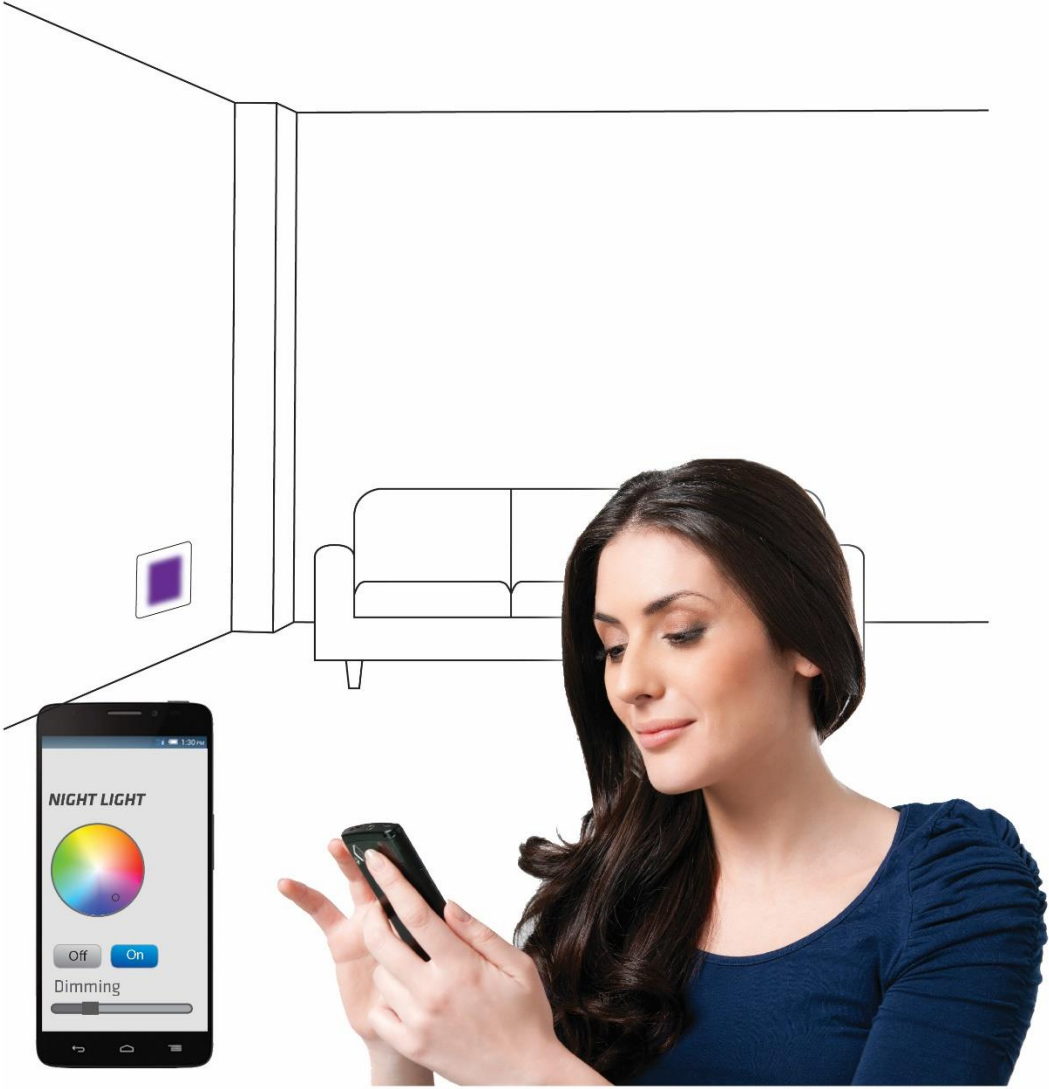
Step 4 – Include the device into the Z-Wave network

- 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 LUXY Smart Light

STEP 5



9. Device Information and Support

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?

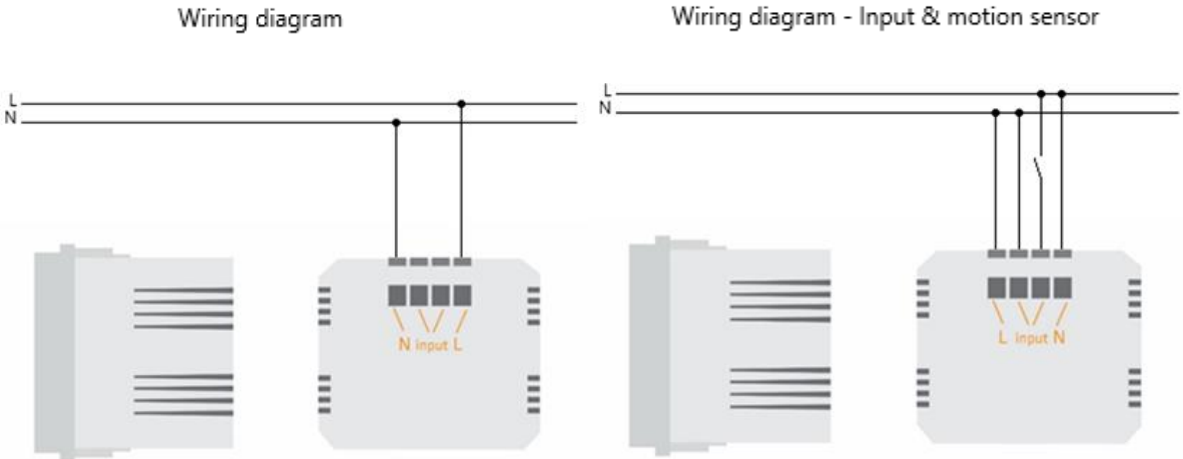
Every device has a dedicated serial number and part number, which is assigned to the device only after it goes through a strict testing procedure.

Our support policy advises that every customer receives an answer within 24 hours.

Go to our support website <https://support.qubino.com/support/home> and open a new support ticket. By telling us the product's unique serial number and part number, we will automatically review the production log file containing device parameters and information. This allows us to immediately identify and address issues, giving you the best customer support.

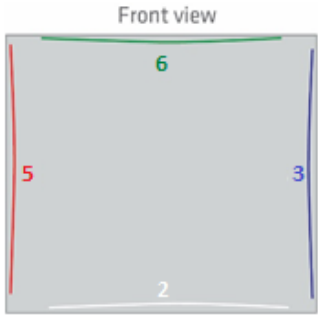
Based on customer and business partner feedback, we're proud to boast Qubino's support team as the best and fastest on the market. If you don't find the answers to your questions in this document, please contact us. We will try to help you as soon as possible.

10. Electrical Diagram (230VAC)



Notes for diagram:

N	Neutral wire input
L	Live (line) wire input
input	Input for switch/ motion sensor



Functionality:

Down (#2)	Colour spectrum mode
Right (#3)	On/Off and Dimming mode
Up (#6)	Lighting effect mode
Left (#5)	White (Full brightness, dimming mode)

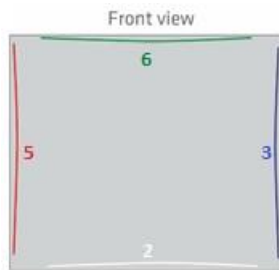
11. Adding the device to a Z-Wave network (Inclusion)

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

1. Scan QR code on device label and add S2 DSK to Provisioning List in gateway (hub)
2. Connect the device to the power supply.
3. Inclusion will be initiated automatically within few seconds of connection to the power supply and the device will automatically enrol in your network (when the device is excluded and connected to the power supply it automatically enters the LEARN MODE state).

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

Capacitive inputs are marked according to the original firmware, the numbering in the manuals will be altered for better customer experience, it will be marked according to the following key:



- Down (#2)
- Right (#3)
- Up (#6)
- Left (#5)

1. Enable add/remove mode on your Z-Wave gateway (hub)
2. Connect the device to the power supply
3. Full white needs to be active (one press on Down). When full white is enabled, press right and hold it between 4 and 6 seconds. After 6 seconds, the device starts flashing green: 1 second on, 0.5 second off. Once the device receives node ID (after 10seconds), it stops flashing and turns full green. The procedure is available always.

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

REMOVAL FROM A ZWAVE 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. Full white needs to be active (one press on Down). When full white is enabled, press right and hold it in between 4 and 6 seconds. After 6 seconds, the device starts flashing red 1 second on, 0.5 second off.


Once the device loses node ID (after 10 seconds), it stops flashing and turns full red. The procedure is always available.

NOTE1: LEARN MODE state allows the device to receive network information from the controller.

FACTORY RESET

1. Connect the device to the power supply
2. Full white needs to be active (one press on Down). When full white is enabled, press Left and hold it for 10 seconds. After 10 seconds, the device starts flashing blue: 1 second on, 0.5 second off. After 10 seconds the device stops flashing and turns full blue.

The procedure is always available.

 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.

13. Associations

Association Groups:

Root device:

Group ID	Name	Allowed nodes	Description
1	Lifeline	1	<p>Supports the following commands:</p> <ul style="list-style-type: none"> • DEVICE_RESET_LOCALLY (0x5A01) • SWITCH_MULTILEVEL_REPORT(0x2603) • SWITCH_COLOR_REPORT(0x3304) • NOTIFICATION_REPORT(0x7105) • SOUND_SWITCH_TONE_PLAY_REPORT (0x790A) <p>Reserved for communication with the primary gateway/hub. Used to report unsolicited messages to the controller</p>
2	LEDs on/off	5	<p>Supports the following commands:</p> <ul style="list-style-type: none"> • BASIC_SET(0x2001): is triggered, when a change of output state occurs.
3	Change of brightness	5	<p>Supports the following commands:</p> <ul style="list-style-type: none"> • SWITCH_MULTILEVEL_SET(0x2601): is triggered, when a change of output state occurs.
4	Change of color	5	<p>Supports the following commands:</p> <ul style="list-style-type: none"> • SWITCH_COLOR_SET(0x3305): is triggered, when a change of output state occurs.

14. Notification command class

The LUXY Smart Light supports the following notifications:

The device supports the following notification types and events:

Notification Type	Notification Event
Siren (0x0E)	Siren active (0x01)

The device sends a NOTIFICATION_REPORT, with the listed type and event, when it receives a NOTIFICATION_REPORT. The device can behave in one of two ways:

- When it receives a NOTIFICATION_REPORT(notificationType=0x08=POWER_MANAGEMENT) the device will start blinking with a yellow color and the integrated buzzer will play its tone synchronously with the blinking.
- When the device receives any other NOTIFICATION_REPORT, it will start blinking with a red color and the integrated buzzer will play its tone synchronously with the blinking.

The device will continue to do so, until the user puts it back into its default state, which can be done either a Z-Wave command or by physically touching the buttons of the device, so that a change of output state occurs. There is some control of this behaviour, which is described, in more detail, in the configuration parameters #3 and #50.

15. Configuration Parameters

Parameter no. 1 – Digital input type

Defines the type of input device connected to digital input.

Values (size is 1 byte dec):

- Default value 1
- 0 – Push-button
- 1 – on/off toggle switch
- 2 – motion sensor
- 3 – motion sensor with memory (turned off after certain amount of time defined in parameter 5)

Parameter no. 3 – Turning off alarming

Values (size is 1 byte dec):

- default value 1
- 0 – only by z-wave command (basic set, switch multilevel set, switch multilevel start/stop level change, sound switch play tone, sound switch configuration, switch color set, switch color start/stop level change, notification report idle)
- 1 – capacitive input or z-wave command (basic set, switch multilevel set, switch multilevel start/stop level change, sound switch play tone, sound switch configuration, switch color set, switch color start/stop level change, notification report idle)

Parameter no. 5 – Motion sensor memory timer

Defines the time after which the output triggered by motion sensor is turned off.

Values (size is 2 byte dec):

- default value 10
- 0 – 32534 = 0-32534 seconds after which the LED will be turned off.
- 32535 – never turns off

Parameter no. 10 – Auto on timer

Defines the time after which the device is turned to last known state

Values (size is 2 byte dec):

- Default value 0
- 0 – disabled
- 30 – 32535 = 30 – 32535 seconds after which the device turns on

① NOTE: If the user is performing an inclusion/exclusion/factory reset of this device and this parameter is configured to a non-default value, a change of output state can occur. This will result in an interruption of the inclusion/exclusion/reset process.

Parameter no. 11 – Auto off timer

Defines the time after which the device is turned to last known state.

Values (size is 2 byte dec):

- Default value 0
- 0 - disabled
- 30 – 32535 = 30 – 32535 seconds after which the device turns off

① NOTE: If the user is performing an inclusion/exclusion/factory reset of this device and this parameter is configured to a non-default value, a change of output state can occur. This will result in an interruption of the inclusion/exclusion/reset process.

Parameter no. 30 – Restore state on power failure

Values (size is 1 byte dec):

- Default value 1
- 1 – enabled (the device will restore state on power failure)
- 0 – disabled (the device will not restore state on power failure and will remain off)

Parameter no. 50 – Beeper enable/disable

Values (size is 1 byte dec):

- Default value 1
- 0 – disabled (the beeper is not active)
- 1 – enabled (the beeper is active)

15. Technical Specifications

Power supply	100 - 240 VAC \pm 10% 50 or 60Hz
Operation temperature	-10 ~ +40°C (14 ~ 104°F)
Z-Wave operation range	up to 310 m indoors (98 ft)
Beeper	>60dB
Colours	16 million
Electricity consumption	<1W
Installation in boxes	$\varnothing \geq 60$ mm (2,36 in) / 2M or 3M
Z-Wave Repeater	Yes
Dimensions (WxHxD)	93x90x45mm / 3,7x3,5x1,8
Weight (with wooden frame)	114 g
Weight (with plastic frame)	143 g

16. Z-Wave Command Classes

ROOT DEVICE:

Device Classes:

GENERIC_TYPE_SWITCH_MULTILEVEL (0x11)

SPECIFIC_TYPE_COLOR_TUNABLE_MULTILEVEL (0x02)

Supported Z-Wave Command Classes

COMMAND_CLASS_ZWAVEPLUS_INFO_V2

COMMAND_CLASS_SUPERVISION_V1

COMMAND_CLASS_TRANSPORT_SERVICE_V2

COMMAND_CLASS_SECURITY_V1

COMMAND_CLASS_SECURITY_2_V1

COMMAND_CLASS_SWITCH_COLOR_V3 [S0]* [S2]*

COMMAND_CLASS_ASSOCIATION_V2 [S0]* [S2]*

COMMAND_CLASS_ASSOCIATION_GRP_INFO_V3 [S0]* [S2]*

COMMAND_CLASS_VERSION_V2 [S0]* [S2]*

COMMAND_CLASS_MANUFACTURER_SPECIFIC_V2 [S0]* [S2]*

COMMAND_CLASS_DEVICE_RESET_LOCALLY_V1 [S0]* [S2]*

COMMAND_CLASS_POWERLEVEL_V1 [S0]* [S2]*

COMMAND_CLASS_SWITCH_MULTILEVEL_V4 [S0]* [S2]*

COMMAND_CLASS_SOUND_SWITCH_V1 [S0]* [S2]*

COMMAND_CLASS_CONFIGURATION_V1 [S0]* [S2]*

COMMAND_CLASS_NOTIFICATION_V8 [S0]* [S2]*

*[S0] Security Command Class

*[S2] Security S2 Command Class

① NOTE: This product 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.

① NOTE: This device must be used in conjunction with a Security Enabled Z-Wave Controller in order to fully utilize all implemented functions.

① NOTE: This device is a security enabled Z-Wave Plus product that is able to use encrypted Z-Wave Plus messages to communicate to other security enabled Z-Wave Plus products.

① NOTE: DSK access via UI

Gateways, which implement the S2 and Smart Start security feature, display an input dialog box, with a full or partial DSK key. The majority of them display a partial DSK (they don't show the PIN code), when the device is included with the S2-Authenticated security scheme. When included with the S2-Unauthenticated, some gateways show the complete DSK while others perform the complete inclusion process without prompting the user with the dialogue.

① NOTE: MAPPING OF COMMAND_CLASS_BASIC

The LUXY Smart Light is a switch multilevel device. The COMMAND_CLASS_BASIC is mapped into COMMAND_CLASS_SWITCH_MULTILEVEL. The device will be turned ON or OFF after receiving the BASIC_SET command:

- It will be turned on, when it receives a BASIC_SET(Value=0x01-0x063) (1-99%)
- It will turn to the last non-zero value, when it receives a BASIC_SET(Value=0xFF)
- It will turn off, when it receives a BASIC_SET(Value=0x00)

17. Z-Wave Security

Qubino LUXY Smart Light supports the latest Security 2 feature. Security S2 is handled by the Strong AES 128 Encryption protocol, which means that the S2 makes Z-Wave the most secure IoT (Internet of Things) security platform out there. In order to fully utilize the product and its SECURITY 2 feature, a Security Enabled Z-Wave gateway (hub) must be used.

Authenticated Control

- Out-Of-Band Device Specific Key for inclusion
- May be used by most implementations

Also supports: Security S2 Unauthenticated, Security S0 and Unsecure inclusion.

IMPORTANT: When adding the LUXY Smart Light to a Z-Wave network with a controller supporting Security 2 (S2), the PIN code of the Z-Wave Device Specific Key (DSK) is required. The unique DSK code is printed on the product label and a copy is inserted in the packaging, which must not be lost. Do not remove the DSK from the product. As a backup measure, use the label in the packaging.

The first five digits of the key are highlighted or underlined to help the user identify the PIN code portion of the DSK text.

The DSK is additionally represented with a QR Code as shown here.



DSK label and QR code (example)

A joining node requesting to join the S2 Access Control Class or the S2 Authenticated Class will obfuscate its Public Key by setting the bytes 1..2 to zeros (0x00) before transferring its key via RF.

A joining node requesting to join only the S2 Unauthenticated Class will send the its full Public Key when transferring the key via RF as the including node has no access to the DSK.

The DSK may be used for out-of-band (OOB) authentication.

- The including gateway (hub) may use QR code scanning device to read the entire DSK off the joining device and match it with the obfuscated public key received via RF from the joining device.

SmartStart enabled products can be added into a Z-Wave network by scanning the Z-Wave QR Code present on the product with a controller providing SmartStart inclusion. No further action is required and the SmartStart product will be added automatically within 10 minutes of being switched on in the network vicinity.

17. 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: <https://qubino.com/support/>

18. 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.

19. 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 LUXY Smart Light 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 S1 (SW version is part of P/N)! Example: "P/N: ZMNHQDx HXS1PX"

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