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Firmware Version : 0.0

Quick Start

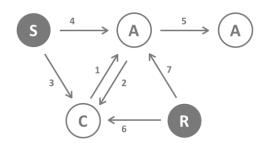
S This device is a wireless Z-Wave sensor. A single click on the Z-Wave switch will confirm Inclusion and Exclusion.

Please refer to the chapters below for detailed information about all aspects of the products usage.

What is Z-Wave?

This device is equipped with wireless communication complying to the Z-Wave standard. Z-Wave is the **international standard for wireless communication** in smart homes and buildings. It is using the **frequency of 868.42 MHz** to realize a very stable and secure communication. Each message is reconfirmed (**two-way communication**) and every mains powered node can act as a repeater for other nodes (**meshed network**) in case the receiver is not in direct wireless range of the transmitter.

Z-Wave differentiates between Controllers and Slaves. Slaves are either sensors (S) transmitting metered or measured data or actuators (A) capable to execute an action. Controllers are either static mains powered controllers (C) also referred to as gateways or mobile battery operated remote controls (R). This results in a number of possible communication patterns within a Z-Wave network that are partly or completely supported by a specific device.



- 1. Controllers control actuators
- 2. Actuators report change of status back to controller
- 3. Sensors report change of status of measured values to controller
- 4. Sensors directly control actuators

- 5. Actuators control other actuators
- 6. Remote controls send signals to static controllers to trigger scenes or other actions
- 7. Remote controls control other actuators.

There are two different role a controller can have. There is always one single primary controller that is managing the network and including/excluding devices. The controller may have other functions - like control buttons - as well. All other controllers don't manage the network itself but can control other devices. They are called secondary controllers. The image also shows that its not possible to operate a sensor just from a remote control. Sensors only communicate with static controllers.

Product description

This device take existing Z-WAVE signal, repeat and send it to a longer range where it is too far away for the controller (supporting FLiRS devices). Due to a special antenna amplifier the operating range will be up to 200 meters when installed correctly.

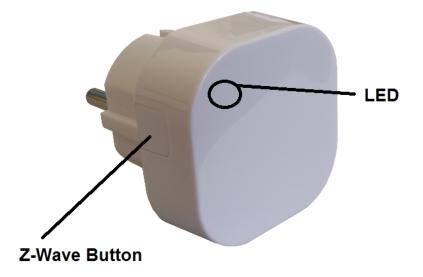
Before Device is installed

Please read carefully the enclosed user manual before installation of the radio-actuator, in order to ensure an error-free functioning.

ATTENTION: only authorized technicians under consideration of the country-specific installation guidelines/norms may do works with 230?Volt mains power. Prior to the assembly of the product, the voltage network has to be switched off and ensured against re-switching.

The product is permitted only for proper use as specified in the user manual. Any kind of guarantee claim has to be forfeited if changes, modifications or painting are undertaken. The product must be checked for damages immediately after unpacking. In the case of damages, the product must not be operated in any case. If a danger-free operation of the equipment cannot be assured, the voltage supply has to be interrupted immediately and the equipment has to be protected from unintended operation.

Installation Guidelines



Plug the edvice into a free plug socket.

The LED will blink as long the deivce is not included into a Z-Wave network.

Note: For indoor use only!

Behavior within the Z-Wave network

I On factory default the device does not belong to any Z-Wave network. The device needs to join an existing wireless network to communicate with the devices of this network. This process is called **Inclusion**. Devices can also leave a network. This process is called **Exclusion**. Both processes are initiated by the primary controller of the Z-Wave network. This controller will be turned into exclusion respective inclusion mode. Please refer to your primary controllers manual on how to turn your controller into inclusion or exclusion mode. Only if the primary controller is in inclusion or exclusion mode, this device can join or leave the network. Leaving the network - i.e. being excluded - sets the device back to factory default.

If the device already belongs to a network, follow the exclusion process before including it in your network. Otherwise inclusion of this device will fail. If the controller being included was a primary controller, it has to be reset first.

single click on the program switch will confirm Inclusion and Exclusion.

Operating the device

After inclusion the LED will stop to blink.

The extender is a passive device, that only extends your Z-Wave network's range.

Node Information Frame

NI The Node Information Frame is the business card of a Z-Wave device. It contains information about the device type and the technical capabilities. The inclusion and exclusion of the device is confirmed by sending out a Node Information Frame. Beside this it may be needed for certain network operations to send out a Node Information Frame.

A single click on the program switch will send out a Node Information Frame.

Command Classes

Supported Command Classes Basic (version 1) Association (version 1) Version (version 1) Configuration (version 1) Manufacturer Specific (version 1) Powerlevel (version 1)

Technical Data

IP Rating	IP 20
Explorer Frame Support	No
SDK	
Device Type	Slave with routing capabilities
Generic Device Class	Repeater Slave
Specific Device Class	Basic Repeater Slave
Routing	Yes
FLiRS	No
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Explanation of Z-Wave specific terms

Controller — is a Z-Wave device with capabilities to manage the network. Controllers are typically Gateways, Remote Controls or battery operated wall controllers.

Slave — is a Z-Wave device without capabilities to manage the network. Slaves can be sensors, actuators and even remote controls.

Primary Controller — is the central organizer of the network. It must be a controller. There can be only one primary controller in a Z-Wave network.

Inclusion — is the process of bringing new Z-Wave devices into a network.

Exclusion — is the process of removing Z-Wave devices from the network.

Association — is a control relationship between a controlling device and a controlled device.

Wakeup Notification — is a special wireless message issued by a Z-Wave device to annonces that is is able to communicate.

Node Information Frame — is a special wireless message issued by a Z_Wave device to announce its capabilities and functions.

Disposal Guidelines

The product does not contain hazardous chemicals.

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.