

TKB Home

## Z-Wave Wall Plug Dimmer for Type F

SKU: TKBETZ67-G



### Quickstart

This is a **Light Dimmer for Europe**. To run this device please connect it to your mains power supply.

Inclusion and Exclusion are confirmed by hitting the button one time.

### What is Z-Wave?

Z-Wave is the international wireless protocol for communication in the Smart Home. This device is suited for use in the region mentioned in the Quickstart section.

Z-Wave ensures a reliable communication by reconfirming every message (**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.

This device and every other certified Z-Wave device can be **used together with any other certified Z-Wave device regardless of brand and origin** as long as both are suited for the same frequency range.

If a device supports **secure communication** it will communicate with other devices secure as long as this device provides the same or a higher level of security. Otherwise it will automatically turn into a lower level of security to maintain backward compatibility.

For more information about Z-Wave technology, devices, white papers etc. please refer to [www.z-wave.info](http://www.z-wave.info).



### Product Description

The TKB TZ67 is a dimmer plug that can be placed between a wall outlet for Typ G Plug and electric devices, plugged in by cord. It can dim resistive loads up to 300 W. The device is IP 20 rated and can therefore only be used in dry environments. For dimming the devices apply leading edge phase cutting. It is therefore only possible to dim incandescent lamps and high voltage halogen lights. Low voltage halogen lights, LEDs and CFLs must not be attached. Dimming is controlled wirelessly using Z-Wave or locally applying a button. A blue LED indicates the dimming status.

### Prepare for Installation / Reset

Please read the user manual before installing the product.

In order to include (add) a Z-Wave device to a network it **must be in factory default state**. Please make sure to reset the device into factory default. You can do this by performing an Exclusion operation as described below in the manual. Every Z-Wave controller is able to perform this operation however it is recommended to use the primary controller of the previous network to make sure the very device is excluded properly from this network.

#### Safety Warning for Mains Powered Devices

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

### Installation

The Dimmer Plug can be plugged into every wall outlet for Plug-Type F. It is IP20 rated and can therefore only be used in dry environments. Do not locate the device facing direct sunlight, humid or dusty place. The suitable ambient temperature for the device is 0°C ... 40°C.

### Inclusion/Exclusion

On factory default the device does not belong to any Z-Wave network. The device needs to be **added to an existing wireless network** to communicate with the devices of this network. This process is called **Inclusion**.

Devices can also be removed from a network. This process is called **Exclusion**. Both processes are initiated by the primary controller of the Z-Wave network. This controller is turned into exclusion respective inclusion mode. Inclusion and Exclusion is then performed doing a special manual action right

on the device.

#### Inclusion

hit the button on the device.

#### Exclusion

hit the button on the device.

## Product Usage



The device is able to dim electric load up to 300 W. Short press of the button will toggle. This means that the power will be turned on if it was off and turned off when it was on. When switching the lamp on or off the light will dim for about 2 seconds until the final level is reached.

The the button is constantly pressed the light will be dimmed. The dimming function will also toggle. Constantly pressing the the button will either dim up or dim down the light until it reaches the final level.

## Quick trouble shooting

Here are a few hints for network installation if things dont work as expected.

1. Make sure a device is in factory reset state before including. In doubt exclude before include.
2. If inclusion still fails, check if both devices use the same frequency.
3. Remove all dead devices from associations. Otherwise you will see severe delays.
4. Never use sleeping battery devices without a central controller.
5. Dont poll FLIRS devices.
6. Make sure to have enough mains powered device to benefit from the meshing

## Association - one device controls an other device

Z-Wave devices control other Z-Wave devices. The relationship between one device controlling another device is called association. In order to control a different device, the controlling device needs to maintain a list of devices that will receive controlling commands. These lists are called association groups and they are always related to certain events (e.g. button pressed, sensor triggers, ...). In case the event happens all devices stored in the respective association group will receive the same wireless command wireless command, typically a 'Basic Set' Command.

### Association Groups:

Group Number	Maximum Nodes	Description
1	5	Lifeline

## Configuration Parameters

Z-Wave products are supposed to work out of the box after inclusion, however certain configuration can adapt the function better to user needs or unlock further enhanced features.

**IMPORTANT:** Controllers may only allow configuring signed values. In order to set values in the range 128 ... 255 the value sent in the application shall be the desired value minus 256. For example: To set a parameter to 200 it may be needed to set a value of 200 minus 256 = minus 56. In case of a two byte value the same logic applies: Values greater than 32768 may needed to be given as negative values too.

### Parameter 1: Indicator Light

*Change the state of indicator lite*

Size: 1 Byte, Default Value: 1

Setting	Description
0	The LED is On, if the device is on
1	The LED is On, if the device is Off

### Parameter 2: Memory function

*Save the last status or not.*

Size: 1 Byte, Default Value: 1

Setting	Description
0	Do not save the last status
1	Save the last status

## Technical Data

<b>Dimensions</b>	0.060000x0.075000x0.102000 mm
<b>Weight</b>	131 gr
<b>EAN</b>	6959174467628
<b>Voltage</b>	230 V
<b>Load</b>	300 W
<b>Device Type</b>	Light Dimmer Switch
<b>Generic Device Class</b>	Multilevel Switch
<b>Specific Device Class</b>	Routing Multilevel Switch
<b>Firmware Version</b>	03.0c
<b>Z-Wave Version</b>	02.40
<b>Certification ID</b>	ZC10-16010003
<b>Z-Wave Product Id</b>	0x0118.0x0202.0x0611

## Supported Command Classes

- Basic
- Switch Multilevel
- Switch All
- Configuration
- Manufacturer Specific
- Powerlevel
- Protection
- Node Naming
- Version

## 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 adding 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 announces that is able to communicate.
- **Node Information Frame** — is a special wireless message issued by a Z-Wave device to announce its capabilities and functions.