







The Smart Dimmer is a switch multi level device based on Z-wave Plus and Zigbee 3.0 protocol

1. Wiring The Dimmer controller can be included and operated in certified Zigbee network and Z-Wave network from other manufacturers.

In addition, the LED dimmer has a wide range (0-200W LED), excellent dimmability and light stability (MIN and MAX adjustment) and all brands of cover material in NL & BE fit on the built-in

Suitable for> 90% of all (normal) dimmable LED lamps. Of course also to be used if you do not vet

- This is a two-wire dimmer and service to be connected as shown in the diagram above Dual mode AC phase cut dimmer based on latest ZigBee 3.0 and Z-Waye plus protocol 2. The installation of the dimmer on a mains current of 230V should be performed by a qualified Supports resistive loads and capacitive loads, Dimming from 0 to 200W(LED), max 300w for Inc. &
- professional, taking into account the national rules. Make sure that the electricity is in all work *Compatible with popular gateway products, such as Philips Hue, Amazon Echo Plus, Google Home 3. You can't connect more than one dimmer in parallel to operate the same charge from two points
- Without Neutral Required, suitable for retrofitted house.
- Supports the Over The Air (OTA) feature for the product's firmware upgrade.

Technical Data

Rated input voltage	220-240 Vac, 50Hz	2) Included the dimmer to Zigbee or Z-Wave ne
Power range*	0-200W LED	Remove the device from previous zigbee nets
	10-300W Incandescent/Halgen	pairing will fail. Please refer to the part "Factory F
Type of load	LED Retrofit Incandescent-halogen	Set primary controller/gateway into inclusion
Type dimmer	R,C trailing edge	to your primary controller's manual on how to tu
Ambient temperature (Ta)	35 °C	Power on the dimmer controller, press and ho
Operation	Press and rotary	set the dimmer controller into inclusion mode.
Dimension	70.6x70.6x33mm	3) Excluded the dimmer to Zigbee or Z-Wave ne
Item weight	g	There are two exclusion methods:

dimmer, turn on/off load

have an app or home automation system. The dimmer is delivered incl. Clear Dutch manual. In short, a very complete and unique product and a world first!

2. Operation

1) Select the communication mode: When the power is off, turn the switch on the right side of the metal plate to your preference. Then turn on the Power.

ncluded the dimmer to Zigbee or Z-Wave network.

Remove the device from previous zigbee network if it has already been added to, otherwise ing will fail. Please refer to the part "Factory Reset Manually".

Set primary controller/gateway into inclusion mode (If you don't know how to do this, Please refer 3. Setting

our primary controller's manual on how to turn your controller into inclusion mode) Power on the dimmer controller, press and hold down the reset button for over 4 seconds, it will

xcluded the dimmer to Zigbee or Z-Wave network.

e are two exclusion methods:

Method 1: Exclusion from the primary controller/gateway:

- Set the primary controller/gateway into exclusion mode (Please refer to your primary controller)
- manual on how to set your controller into exclusion). Twice press the reset button, the dimmer will be set to exclusion mode, and waiting to be
- excluded, then the dimmer will be excluded from the network.

Method 2: Factory reset the dimmer will force it to be excluded from a network, (please refer to the part

"Factory Reset" of this manual) Note: Factory reset is not recommended for exclusion, please use this procedure only if the primary controller/gateway is

missing or otherwise inoperable.

4) Factory Reset Press and hold down reset button for over 4 seconds, the dimmer controller will be reset to factory defaults after the BLUE LED Indicator blink

Reset Dimmer controller to factory default settings will sets the Dimmer to not in z-wave network state, delete the Association setting and restore the Configuration setting to the default. The Dimmer controller will start Smart Start Inclusion when it is

5) Z-Wave Smart Start Inclusion

- The Dimmer has a DSK string, you can key in first five digit to increment smart start process, or
- Ex: 65286-19008-32952-20593-44872-18102-41266-46651
- 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

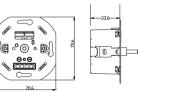
Note: The QR code can be found on the back of the Smart dimmer.

The device supports firmware updating through OTA, and will acquire new firmware from zigbee controller or hub every 10 minutes automatically.

o make the cord dimmer work optimally, you can adjust the lamps optimally to the dimmer with the

- MIN and MAX adjustment • Set MIN; You switch on the lights with the push / turn button. When the lights are on, put a screwdriver in the MIN and turn to the left. When the light becomes unstable, turn a little further to the
- right so that the light remains stable. • Set MAX: You switch on the lamps with the push / turn button. When the lights are on, put a screwdriver in the MAX and turn to the right. When the light becomes unstable, turn a little further to the left so that the light remains stable

4. Dimension



Classes

1. ZiaBee Clusters the device supports are as follows:

- 0x0000: Basic + 0x0003: Identify + 0x0004: Groups + 0x0005: Scenes + 0x0006: On/off 0x0008: Level Control • 0x0b05: Diagnostics • 0x0019: OTA •0x0021: Green Power.

2. Z-Wave Security and non-Security features

- 1) The function of the Dimmer as a security and non-security device is identical.
- 2) When a node includes into a S0 or S2 Z-Waye network, the node supports S0 or S2

Commands list	iss,52 authenticated and so do the supp	ported CCs.

OMMAND CLASS ZWAVEPLUS INFO V2

MMAND CLASS MANUFACTURER SPECIFIC V2 COMMAND CLASS SECURITY 2 VI MMAND CLASS ASSOCIATION GRP INFO VI COMMAND CLASS SECURITY VI Installer Icon Type ICON_TYPE_GENERIC_LIGHT_DIMMER_SWITCH User Icon Type ICON_TYPE_GENERIC_LIGHT_DIMMER_SWITCH MMAND CLASS SWITCH MULTILEVEL V2 5) Association Command COMMAND CLASS FIRMWARE LIPDATE MD V4 The Dimmer supports 1 association group COMMAND CLASS SECURITY VI COMMAND CLASS ASSOCIATION GRP INFO V COMMAND CLASS POWERLEVEL VI Command

COMMAND CLASS ZWAVEPLUS INFO V2

COMMAND CLASS FIRMWARE UPDATE MD VA

3. Z-Wave Command

3) 7-Wave Plus Device Type

Note for special commands

1) SDK: 6.81.03

6) Association Group Info Command

Basic Device Class: BASIC TYPE BOUTING SLAVE

3.4.1.7-Wave Plus Info Command Repor

Generic Device class: GENERIC TYPE SWITCH MULTILEVEL

Specific Device Class: SPECIFIC TYPE POWER SWITCH MULTILEVEL

Light Dimmer Switch GENERIC_TYPE_SWITCH_MULTI- SPECIFIC_TYPE_POWER_SWITCH_MULTI-

Max Nodes

a. Association Group Name Command Report	
Team No.	Value
Group 1	The ASSIC of Lifeline: 4C 69 66 65 6C 69 6E 65

ssociation	Group	Info Command Report	

Group	into command Report		_	Ī,	
er	Team No.	Value		. (

Basic Device Attribute | Specific Device Attribute | Role Type

Transmit Content

Device Reset Locally.

state changed(Configurable).

changed(Configurable).

2. Switch Multilevel Report.

General: Lifeline. Profile MSB=0x00.Profile LSB=0x01

The Dimmer will send Switch Multilevel Report when Dimmer

The Dimmer will send Basic Report when Dimmer state

c. Association Group Command List Command Report

Team No.	Command	d List Support
Group 1	COMMAND_CLASS_SWITCH_MULTILEVEL (0x26)	SWITCH_MULTILEVEL_REPORT (0x03)
Gloup I	COMMAND_CLASS_DEVICE_RESET_LOCALLY(0x5A)	DEVICE_RESET_LOCALLY_NOTIFICATION(0x01)

7) Basic Command

Basic CC is mans to Multilevel CC

Configuration Command Parameters The Dimmer offers a wide variety of advanced configuration settings. Below parameters can be accessed from main controllers configuration interface.

neter	Size	Default Value	Description
	1	0x00	State After Power Restored. The state the switch should return to once power is restored after power failure. 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1
	1	0x01	Notification when Load status change. The Dimmer will send notification to associated device (Group Lifeling) when the status of Dimmer load is changed. 1 - The function is disabled. 1 - Send Switch Multilevil Report. 2 - Send Switch Multilevil Report only when Load status is not changed by Z-WAVE Comman.

4. Z-Wave OR CODE

You scan the OR code with an android phone. For example, The OR returns this number: 900112034129447151845706002418050469410587456993035100100435301536022000927015

The DSK is: 44715-18457-06002-41805-04694-10587-45699-30351.

Note: If your controller does not support SmartStart inclusion, please refer to the manual for you 7001 DV Doetinchem

controller for non-SmartStart inclusion.

2 Ouick Response Code (OR Code)

460003400518(The data for each Dimmer is different)

Tel: +31 314 840165 The first 16 bytes of the ECDH Public Key and sometimes additional information is encoded into

QR Code graphic.

EcoDim

When referred to in this document, "DSK" applies to the Full DSK, the combination of Full DSK and

QR Code or the combination of Pin Code and QR Code. The QR code can be found on the side of the Dimmer or the DSK may be located on the back of the packaging.

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