

Variatorul Heatit Z-Dim se oprește dacă tensiunea depășește nivelul maxim. Pentru ca variatorul să funcționeze corespunzător din nou, eroarea trebuie să fie corectată și variatorul trebuie să fie oprit și pornit din nou.

PORNIRE

DUPĂ CONECTAREA ENERGIEI LA MULTIVARIATOR PENTRU PRIMA DATĂ, TOȚI PARAMETRII VOR AVEA SETĂRILE DE BAZĂ.

7. FUNCȚIONALITATE ÎNTRERUPĂTOR MULTIDIRECȚIE

(Funcția de scară)

Heatit Z-Dim are o funcție de scară integrată. Aceasta este utilizată atunci când utilizatorul dorește să controleze iluminarea din mai multe locații.

Pentru a utiliza această funcție, conectați produsul în conformitate cu descrierea de la Paragraful 6 „Instalare și Cablare”. Use up to 2,5mm² wire according to the load.

N	Conexiune de alimentare (Neutru) 230V
L	Conexiune de alimentare (Fază) 230V
LO	Conexiune de încărcare
S	Funcție întrerupător multidirecție (întrerupător momentan)

8. MĂSURAREA CONSUMULUI

Modelul Heatit Z-DIM are inclusă funcție pentru calcularea consumului de energie. Pentru a activa această funcție, parametrul 1 "Sarcină conectată" trebuie să aibă o valoare mai mare de 0. Aceasta este o valoare estimată, de aceea precizia consumului de energie depinde de estimarea sarcinii.

1. Estimați valoarea sarcinii (Watt) conectată la Heatit Z-DIM.
2. Utilizați această valoare în Parametrul 1.

Heatit Z-DIM poate raporta consumul de energie acumulat (kWh) și instant (W) sau doar consumul instantaneu (W). Intervalul de timp al raportului poate fi modificat prin Parametrul 9.

9. CALIBRARE

Heatit Z-Dim poate necesita calibrarea după instalare. Pentru a calibra variatorul Heatit Z-Dim următoarea procedură trebuie să fie efectuată după instalare:

1. Adăugați variatorul la rețeaua dumneavoastră Z-Wave, așa cum este descris în paragraful 4 "Adăugare/Eliminare"
2. Rotiți în sens invers acelor de ceasornic pentru a obține cea mai mică intensitate de iluminare.
3. Ajustați Parametrul 2 "Minimum Dim level" în conformitate cu necesitățile dumneavoastră.
4. Rotiți în sens invers acelor de ceasornic pentru a obține cea mai mare intensitate de iluminare.
5. Ajustați Parametrul 3 "Maximum Dim level" în conformitate cu necesitățile dumneavoastră.

10. CONTROLER AL SCENELOR

Heatit Z-Dim suportă Clasa de Comandă Scenă Centrală. Aceasta vă permite să porniți scene variate, definite în controlerul primar.

Modificarea Parametrilor 5 și 6 va schimba funcționalitatea variatorului Heatit Z-Dim.

Acțiune	Atribut
2 click-uri	Tastă apăsată de 2 ori
3 click-uri	Tastă apăsată de 3 ori
4 click-uri	Tastă apăsată de 4 ori
5 click-uri	Tastă apăsată de 5 ori

11. OPERAREA DISPOZITIVULUI

Heatit Z-Dim nu suportă Clasa de Comandă Multi Canal (încapsulare Multi canal). Dispozitivul conține 3 grupuri de asociere.

Pentru informații suplimentare, a se vedea punctul 15 „Grupuri de asociere”.

Clasele de Comandă Suport

Pe lângă clasele obligatorii de comandă, Heatit Z-DIM oferă suport pentru următoarele clase de comandă:

• Basic Command Class

Sending **Basic Set** command to the dimmer will change the level of the multilevel switch. The Basic Command Class values are mapped to the Multilevel Switch Command Class. When powering the OFF using button, the value 0 is sent (0x00). When powering the ON using button, the value 255 is sent (0xFF). When using the rotary encoder, the values 1 - 99 is sent (0x01-0x63).

• Binary Switch Command Class

Sending **Binary Switch** command to the dimmer will change the state of the device (ON / OFF). If changing Parameter 7 this function may be altered.

• Multilevel Switch Command Class

Sending **Multilevel Switch** command to the dimmer will change the level of the multilevel switch.

12. SECURITY

The S2 security enhances Z-Wave Plus with an additional layer of AES 128-bit encryption of the wireless Z-Wave communication to prevent hacking and man-in-middle attacks of the home network. The Heatit Z-Dim supports S2 and has a Z-Wave DSK QR-code label that can be used when the module is included to the Z-Wave home network. The including primary controller will ask for a 5-digit code, which can be identified beneath the QR-code, and will then ask to confirm the rest of the code that is contained in the QR-code.

The Z-Wave DSK can be found in the QR-Code and is located in 3 locations:

1. Box of the product.
2. On physical product, placed on the metal frame.
3. On the PCB.

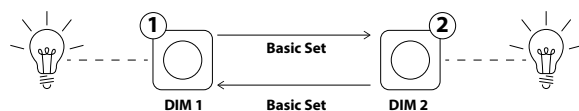
13. NODE INFORMATION FRAME

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 add and remove procedure of the device is confirmed by sending out a Node Information Frame. Besides this, it may be necessary for certain network operations to send out a Node Information Frame.

14. ASSOCIATIONS

Z-Wave devices control other Z-Wave devices. The relationship between one device controlling another device is called association. In order to control a subordinate device, the controlling device needs to maintain a list of devices that will receive controlling commands. These lists are called "Association Groups". They are always related to the specific event triggered (e.g. sensor reports). In case the event occurs all devices stored in the respective association group will receive a common wireless command.

SCENARIO 1



Scenario 1A Associate two Heatit Z-DIM dimmers.

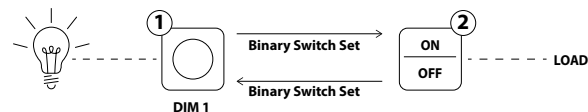
Expected behavior

1. "DIM 1" will control lights attached to both "DIM 1" and "DIM 2".
2. "DIM 2" will control lights attached to both "DIM 2" and "DIM 1".

Required configuration

1. "DIM 1" needs the following setup:
 - a. Association using "Basic Set" from Association Group 2 to "DIM 2".
2. "DIM 2" needs the following setup:
 - a. Association using "Basic Set" from Association Group 2 to "DIM 1".

SCENARIO 2



Scenario 2A Associate Heatit Z-DIM with a Binary Switch device.

Expected behavior

1. Turning ON/OFF "DIM 1" will turn "Binary Switch Device" ON/OFF.
2. Turning ON/OFF "Binary Switch Device" will turn "DIM 1" ON/OFF.

Required configuration

1. "DIM 1" needs the following setup:
 - a. Association using "Binary Switch Set" from Association Group 3 to "Binary Switch Device".
2. "Binary Switch Device" needs the following setup:
 - a. Association using "Binary Switch Set" from Association Group 3 to "DIM 1".

15. ASSOCIATION GROUPS

MULTI LEVEL SWITCH DEVICE	DESCRIPTION
Group 1 Lifeline	Lifeline. (Normally used by the Z-Wave Controller) Sends: - Multilevel Switch Report - Meter Report - Device Reset Locally - Central Scene Notification Max. nodes in the group: 8
Group 2 Dimming level	- Basic Set Basic Set is usually used to control other dimmer devices. Max. nodes in the group: 8
Group 3 State of Device ON/OFF	- Binary Switch Set Binary Switch Set is usually used to control other ON/OFF devices. Max. nodes in the group: 8

Setting and Removing Associations

Associations can be assigned and removed via Z-Wave commands. Please refer to the primary controller user manual.

16. CONFIGURATION PARAMETERS

Z-Wave products are supposed to work *out of the box* after adding, however, certain configurations of a device can alter the functionality to better serve the users needs or unlock further enhanced features.

After a change in any parameter, the dimmer will turn ON using the dimming level value from Parameter 10 "Power restore level".

Parameter 1, Parameter Size 1. Connected Load.
The parameter defines the value of connected load. Refer to Paragraph 8 "Power Metering".

VALUE	DESCRIPTION
0	Not configured (Default)
1 - 200	1-200 Watts connected load

Parameter 2, Parameter Size 1. Minimum Dim level.
The parameter defines the lowest dimming level of the dimmer. The value must be lower than parameter 3 "Maximum Dim Level".

VALUE	DESCRIPTION
1 - 98	1% - 98% Default is 20 (20%)

Parameter 3, Parameter Size 1. Maximum Dim level.
The parameter defines the highest dimming level of the dimmer. The value must be higher than parameter 2 "Minimum Dim Level".

VALUE	DESCRIPTION
2 - 99	2% - 99% Default is 85 (85%)

Parameter 4, Parameter Size 1. Total steps.
The parameter defines how many steps it should take to dim from minimum to maximum dim level (One round = 20 steps).

VALUE	DESCRIPTION
5 - 255	5-255 steps. Default is 15 (3/4 round)

Parameter 5, Parameter Size 1. Double press function.
The parameter defines the double press functionality.

VALUE	DESCRIPTION
0	Central Scene notification (Default)
1	Dim to highest level

Parameter 6, Parameter Size 1. Scene controller.
The parameter enables scene controller.

VALUE	DESCRIPTION
0	Disabled
1	Active (Default)

Parameter 7, Parameter Size 1. Switch ON level.
The parameter defines the dimming level when restored from the OFF state by push button.

VALUE	DESCRIPTION
0	Restores last dim level (Default)
1 - 99	1% - 99%

Parameter 8, Parameter Size 1. Dimming Duration.
The parameter defines how long it takes to dim to the desired level. Note! Only Multilevel Switch Command Class is affected by this parameter.

VALUE	DESCRIPTION
0	Disabled
1 - 127	Duration in seconds (1 - 127 seconds. Default is 1)
128 - 255	Duration in minutes (1 - 127 minutes)

Parameter 9, Parameter Size 2. Meter Report Interval.
The parameter defines the report interval for Power Metering.

VALUE	DESCRIPTION
0	Disabled
30 - 32 767	Duration in seconds (30 - 32 767. Default is 60)

Parameter 10, Parameter Size 1. Power restore level.
The parameter defines the initial dimming level after power loss.

VALUE	DESCRIPTION
1 - 99	1% - 99% Default is 50 (50%)

17. COMMAND CLASSES

Supported Command Classes

The following table lists all Command Classes supported by the Z-Wave Device. The device supports both S0, S2 Authenticated security and S2 Unauthenticated security.

	INSECURE INCLUSION	INSECURE ON SECURE INCLUSION	SECURE ON SECURE INCLUSION
Association (version 2)	Yes		Yes
Association Group Information (version 1)	Yes		Yes
Multi Channel Association (version 3)	Yes		Yes
Version (version 3)	Yes		Yes
Configuration (version 3)	Yes		Yes
Manufacturer Specific (version 2)	Yes		Yes
Z-Wave Plus Information (version 2)	Yes	Yes	
Device Reset Locally (version 1)	Yes		Yes
Powerlevel (version 1)	Yes		Yes
Firmware Update (version 4)	Yes		Yes
Basic (version 2)	Yes		Yes
Supervision (version 1)	Yes	Yes	
Switch Binary (version 1)	Yes		Yes
Meter (version 3)	Yes		Yes
Switch Multilevel (version 4)	Yes		Yes
Central Scene (version 3)	Yes		Yes
Security (version 1)	Yes	Yes	
Security 2 (version 1)	Yes	Yes	
Transport Service (version 2)	Yes	Yes	

PRODUCT INFO Heatit Z-Dim

FEATURES

- Z-wave rotary dimmer
- Scene controller
- Dims:
 - LED
 - 230V halogen
 - Incandescent lightbulbs
 - Dimable LED-drivers
 - Electronic transformers
- Starts at 1VA and dims up to 200VA LED
- Trailing edge
- Multiway switching option
- Electronic thermal cutoff with automatic reset
- Firmware updates (OTA)
- Power metering
- Supports encryption mode: S0, S2 Authenticated Class, S2 Unauthenticated Class

This product is a security-enabled Z-Wave Plus product with encryption. The product must be used with a security-enabled Z-Wave primary controller to fully utilize the product.

TECHNICAL DATA

Protocol	Z-Wave, 868,4MHz
Chip	Z-Wave 500 chip
SDK	6.71.03
Rated voltage	230V AC 50Hz
Power	1VA - 200VA
Input current	0,9A
Controls	Push and rotary dimmer
Operating temperature	-20°C - 40°C
Connection	Max. 2,5mm ²
Flush mounting depth	15mm
IP Code	IP 20
Size (LxWxH)	84 x 84 x 43mm
Approvals	Z-Wave Plus CE EN 55015/A2: 2009, EN 61547:2009 EN 61000-3-2/A2:2009 EN 61000-3-3:2008 EN 60669-2-1/A12:2010 EN 60669-1:A2:2008 EMC 2014/30/EU, RoHS 2011/65/EU LVD 2014/35/EU

Controlled Command Classes

- Multilevel Switch (version 4)
- Meter (version 3)
- Central Scene (version 3)
- Binary Switch (version 1)

Supported Command Classes

- Association (version 2)
- Association Group Information (version 1)
- Binary Switch (version 1)
- Multi Channel Association (version 3)
- Z-Wave Plus Information (version 2)
- Supervision (version 1)
- Switch Multilevel (version 4)
- Security (version 1)
- Security 2 (version 1)

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Product specifications may change without further notice.

All electrical installations must be carried out by a licensed electrician.

The product must be installed in accordance with national building codes and our installers manual.



ART. NO.	PRODUCT	Z-WAVE FREQUENCY
14 444 44	Heatit Z-Dim 200VA - Z-Wave rotary dimmer	EU 868,4MHz