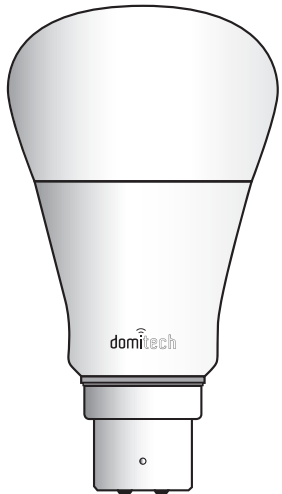# domitech

Wireless Lighting Device
Z-Wave Smart LED Light Bulb

This product speaks with other Z-Wave certified devices

INTRODUCTION

Domitech Smart LED Retrofit Kit ZB22UK is a member of the Z-Wave® family and communicate with other Z-Wave® certified devices in a control network. The Smart Bulb can be controlled by the Z-Wave remote controller or apps. Each Z-Wave device serves as a node to repeat the signal in the network, thus, extending the overall Z-Wave mesh wireless network range. Different types and brands of Z-Wave devices can be associated with domitech Smart Bulb in your system and they will work together to optimize and expand the coverage of your Z-Wave network. Once setup is completed, you can enjoy the convenience and leisure which Smart Bulb offers.

FEATURES
• Built-in Z-Wave radio - can be controlled remotely and wirelessly
• Plug and play, simple setup
• Longer life and more energy efficient than incandescent or florescent light bulbs
• Instant "ON"
• Over-The-Air firmware upgrade available with compatible gateway, Z-Wave® static controller, PC and software
• Powered by Z-Wave® 500 Series module inside
• Manual reset capability

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 8684 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.
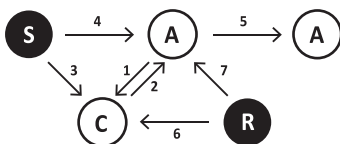
! WARNING !
RISK OF FIRE, ELECTRICAL SHOCK & BURNS
NOT FOR EMERGENCY LIGHTING
DO NOT USE WITH MEDICAL AND LIFE SUPPORT INSTRUMENT
No user serviceable parts are in this module

For lamps with a weight significantly higher than that of the lamps for which they are a replacement, attention should be drawn to the fact that the increased weight may reduce the mechanical stability of certain luminaires and lampholders and may impair contact making and lamp retention.
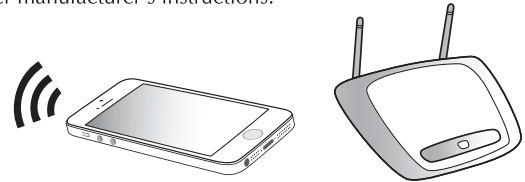
INSTALLATION

Step 1, turn off power to the light bulb socket of your preferred location.

Step 2, Screw the Smart Bulb into the socket.

OFF
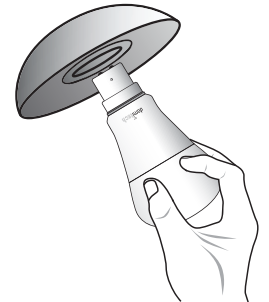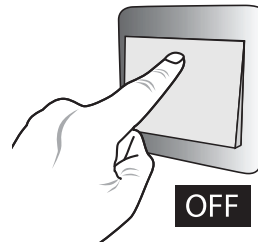
INCLUSION

Step 1, Place your network controller into inclusion mode by following the controller manufacturer's instructions.

Step 2, Turn on power to the socket after promoted by your network controller inclusion mode. The Smart Bulb will be included into your network within 30 seconds. The smart bulb will flash 2 times after Inclusion is successful. If the controller/gateway shows it failed, repeat the procedure.

ON
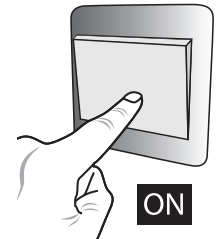
Note: If Inclusion still fails after the 2nd attempt, you need to first RESET the Smart Bulb before repeating the above steps.

Before repeating the above steps, try moving the Smart Bulb to the bulb socket in the same room as your home gateway in case the preferred outlet is out of range initially. Repeat step 1-2 until the Smart Bulb is added to your network. Once the light bulb has been successfully added to your home network, you can move it to the preferred location in the home.

Manually Reset – Flick the wall switch "OFF-ON" cycle 4 times within 4 seconds (Turn OFF and turn ON will be counted as 1 "OFF-ON" cycle). The Smart Bulb will flash twice after Reset is successful. Use this procedure only in the event that the network primary controller is lost or otherwise inoperable.

OFF X4
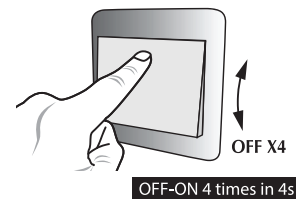
OFF-ON 4 times in 4s

BASIC OPERATION

The ZB22UK Smart Bulb can be controlled ON/OFF/BRIGHT/DIM wirelessly with a Z-Wave remote controller or through a gateway via an app on a smart phone, tablet, or a PC.

Depending on the capability of your controller/gateway, once the Smart Bulb has been added to your network, you may assign it to a Group or Scene and change its status via your controller/gateway.

ASSOCIATION

The Smart Bulb supports Group 1 with up to five devices for lifeline communication. Group 1 must be assigned the Node ID of the controller to which unsolicited notifications will be sent. The Z-Wave controller should set this association automatically after inclusion. Lifeline association only supports the "manual reset" event. Please refer to the instructions manual of your remote controller or gateway for detail procedures on how these function can be set.

EXCLUSION

By controller - The Smart Bulb can be excluded from your network by your controller/Gateway. Similar to the Inclusion process, turn off power to your light bulb and place your network controller into exclusion mode by following the controller manufacturer's instructions. Once prompted by your network controller, turn ON the light switch. The Smart Bulb will flash twice to confirm that it has successfully been excluded from your network. Please refer to your controller/gateway instructions manual for details.

By manually – The Smart Bulb can be excluded manually by flicking the wall switch "OFF-ON" cycle 4 times within 4 seconds (Turn OFF and turn ON will be counted as 1 "OFF-ON" cycle). The bulb will flash twice after Reset is successful. Use this procedure only in the event that the network primary controller is lost or otherwise inoperable.

OFF X4

OFF-ON 4 times in 4s
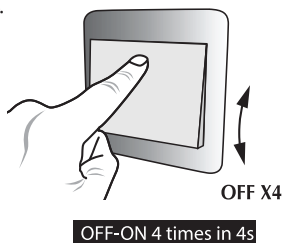
Dim level when the domitech Smart LED Light Bulb is turned ON (Switch ONLY)

You may select the dim level whenever the light is turned back ON to be either full brightness (100% dim level) or be the same as the last dim setting when the light is ON by flicking the wall switch.

Parameter 1   Length: 1 Byte   Valid Values: 0 or 1 (default = 0)

When value = 0, the brightness level will be resume to full brightness when the Smart Bulb is turned every time.

When value = 1, the brightness level will maintain same dim level as the last setting when the Smart Bulb is turned ON again.

Parameter 9: Dimming/Brightening Step Level

You may change the dimming step level when you adjust the brightness by your controller/gateway.

Parameter 9   Length: 1 Byte   Valid Values: 1-99 (default = 1)

When the value is low, dimming/brightening is gradual.

When the value is high, dimming/brightening is rapid.

Parameter 10: Dimming/Brightening Step Timing

You may change the dimming speed quicker or slower by changing Parameter 10.

Parameter 10   Length: 1 Byte   Valid Values: 1-10 (default = 3)

When the value is low, the step timing is quick.

When the value is high, the step timing is slow.

MANUALLY TURNING ON or OFF THE LIGHT SWITCH

When you want to manually turn ON the Smart Bulb whenever it is turned OFF by a program or a remote control, flick the switch twice. The first flick will cut power to the light and the 2nd flick will turn ON the light.

You may manually switch OFF the light bulb while keeping the Smart Bulb online in the network and function as a Z-Wave signal repeater to maintain proper mesh network. The function can be activated by flicking the wall switch "OFF-ON" cycle two times within two seconds. In other words, flick the switch four times (OFF-ON-OFF-ON). The Smart Bulb light will be OFF while it maintains the function as a Z-Wave signal repeater and remains online to be turned ON by program or by an app wirelessly.

OFF X2

OFF-ON 2 times in 2s
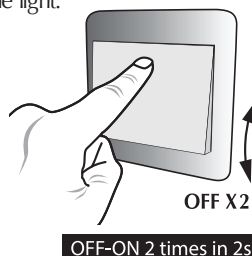
IMPORTANT NOTE:

To accomplish the repeater functionality, other Z-Wave devises should be powered-up state during inclusion of the Smart Bulb. It can make sure all Z-Wave devises are in one network.

Please note that it is extremely important to follow the above practice or to use ONLY your preferred wireless remote control device to turn ON or OFF the light. Without the electrical power to the light bulb, the Smart Bulb cannot be turned ON remotely nor function as a signal repeater to maintain proper Z-Wave network.

To avoid family members from accidently turning OFF the power to the Smart Bulb, install the optional clear cover that fits over your wall switch included with your product. Please refer to the separate installation sheet.

About the Z-Wave 500 Series Module with Z-Wave Plus features:

You can use a Z-Wave certified portable or static controller to communicate with the module. Depending on the capability of your controller or gateway software, the following simple to advanced operations may be performed. Please refer to the controller or gateway manual for details.

1. Add (Include) or Delete (Exclude) the Smart Bulb to/from your network
2. Turn On or Off the Smart Bulb remotely
3. Assign the Smart Bulb to a specific Group/Scene and/or to include the bulb as part of your ALL ON or OFF command.
4. Over-the-Air firmware update by your gateway or static controller
5. Lifeline function which automatically notifies the associated modules and the network that a manually reset device is no longer in the network, thus, the corresponding association becomes invalid

NOTE:

Please note that like any other lights, the Smart Bulb will be OFF after a power failure. The smart bulb will be "ON" with full brightness after the power is resumed if parameter 1 is not changed by the controller/gateway.

SPECIFICATIONS

Model: ZB22UK
Input power: 220-240 VAC, 50/60 Hz.
Brightness: 806 lumens (Equivalent to 65-Watt incandescent light bulb)
Power Consumption: 9W
Color Temperature: 2700K
Bulb Lifetime: Approx. 25,000 hours (Equivalent 22.8 years based on 3 hrs/day)
Radio frequency: 8684 MHz / 869.85 MHz
Wireless range: up to 130 feet line of sight between the controller and the other available nodes.
Normal operating temperature: 77°F (25°C)
FOR INDOOR USE ONLY

Interoperability with Z-Wave® devices
A Z-Wave® network can integrate devices from various classes of products, and these devices can be made by different manufacturers. The domitech® product introduced in this instructions manual has a Z-Wave certification which guarantees such an interoperability.

Z-Wave is a registered trademark of Sigma Designs

WARRANTY

Domitech Products warrants to the original purchaser of this product that for the warranty period, this product will be free from material defects in materials and workmanship. The foregoing warranty is subject to the proper installation, operation and maintenance of the product in accordance with installation instructions and the operating manual supplied to customer. Warranty claims must be made by customer in writing within 30 days of the manifestation of a problem. Domitech's sole obligation under the foregoing warranty is to repair, replace or correct any such defect that was present at the time of delivery, or to remove the product and to refund the purchase price to customer. The warranty does not extend to consequential or incidental damage to other products that may be used with this product. For inquiry and customer service, email to support@domitechproducts.com

Warranty period: limited 1 year from date of purchase