Installation –
The LED bulb is simple to install and use:

1. Before installation make sure the power supply is disconnected.
2. Screw in the LED bulb.
3. Power it on.
4. Include the LED bulb into your Z-Wave network (follow the procedure Z-Wave network inclusion).
5. Select a colour if necessary.

How to Include the Ness Z-Wave LED Bulb into a Z-Wave Network –
To seamlessly integrate your Ness Z-Wave LED bulb into a Z-Wave network, follow the steps outlined below. This process ensures that each device is correctly added and fully functional within your system. By following these instructions, you can efficiently manage and customise your devices for optimal performance.

To include the LED bulb into a Z-Wave network as a **non-security device**:

1. Make sure the power supply is disconnected and the LED bulb is located within a direct Z-Wave network's main controller communication range.
2. Set the Z-Wave network main controller into learning mode (see Z-Wave network controller operating manual).
3. Insert the LED bulb into a lamp socket and then power it on.
4. Auto-inclusion will be activated. If the inclusion is successful, the LED bulb will blink fast in blue for less than 5 seconds and then keep on for 3 seconds. The LED bulb will keep on in the colour before it was included into the Z-Wave network after the inclusion procedure is finished.

To include the LED bulb into a Z-Wave network as a **security device**:

1. Screw in the LED bulb.
2. Set the Z-Wave network main controller into learning mode (see the Z-Wave network controller operating manual).
3. Toggle the wall switch off and on 3 times quickly (within 3 seconds and the final ending position of the wall switch must be on).
4. If the inclusion is successful, the LED bulb will blink fast in green for less than 5 seconds and then keep on for 3 seconds. The LED bulb will keep on in the colour before it was included into the Z-Wave network after the inclusion procedure is finished.

How to Exclude the Ness Z-Wave LED Bulb out of a Z-Wave Network –
To effectively remove a 2-Wave device from a Z-Wave network, follow these steps to ensure smooth operation and maintain system integrity. This process guarantees the device is correctly disconnected and ready for reconfiguration or replacement, allowing you to manage and
customise your smart home setup with ease.

1. To remove the LED Bulb from the Z-Wave network:
2. Screw in the LED Bulb.
3. Set the Z-Wave network main controller into excluding mode (see Z-Wave controller operating manual).
4. Toggle the wall switch off and on 3 times quickly (the final ending position of the wall switch must be on). If the exclusion is successful, the LED bulb will blink fast in orange for less than 5 seconds and then keep on for 3 seconds. The LED bulb will keep on warm white after the exclusion procedure is finished.

Association –
Association allows the LED bulb to report its status to the associated nodes.
The LED bulb supports only one associated grouping:
The LED bulb will send the follow notification to the associated nodes when the status of the LED bulb is changed.

1. Set Configuration parameter 24 to 0: Reserved
2. Set Configuration parameter 24 to 1: Send Basic Report
3. Set Configuration parameter 24 to 2: Send Basic Report only when the status of the LED bulb is not changed by Z-Wave command.

Advanced Configuration –
The LED Bulb offers a wide variety of advanced configuration settings. The below parameters can be assessed from the main controller configuration interface.

- **Parameter No. 21 Setting device status after power failure.**
  Defines how the LED Bulb will react after the power supply is back on.

0 – LED Bulb memories its state after a power failure
1 – LED Bulb does not memorise its state after power failure. Connected device will be on after the power supply is reconnected.
2 – LED Bulb does not memorise its state after a power failure. Connected device will be off after the power supply is reconnected.

Default setting:
Parameter size: **1 (byte)**

- **Parameter No. 24 Notification when Load status change:**
  The LED Bulb can send notifications to the associated device (Group Lifeline) when the status of the LED Bulb is changed.

0 – The function is disabled.
1 – Send BASIC REPORT.
2 – Send BASIC REPORT only when the status of the LED Bulb is not changed by Z-Wave Command.

Default setting: **1**
Parameter size: **1 (byte)**

- **Parameter No. 255 Resetting to factory default.**
  LED Bulb will exclude from the Z-Wave network with this particular command.

Value: **1431655765** – Resetting to the factory default.
Default setting: **1**
Parameter size: **4 (byte)**