

### DESCRIPTION



The Somfy Z-Wave Universal RTS Interface (ZRTSI) is a Z-Wave bridge controller that resides as a secondary controller node within a designated Z-Wave control network. It receives Z-Wave transmissions and converts them to motor control commands for Somfy's full range of RTS wireless products.

The ZRTSI has 16 virtual ZWave nodes that correspond to 16 RTS channels. All nodes can be automatically included with a Somfy TaHOMA primary controller (1811151) or other ZWave controllers. Individual nodes can be also manually included in the network.

### Z-WAVE TECHNICAL SPECIFICATIONS

#### A. Controller Bridge Node

- Main Controller Bridge Node is the repeating Node
- Bridge Node supports Network Wide Inclusion (NWI)
- Manufacturer ID: 00 47 (Somfy)
- Product Type: 5A 52
- Product ID: 54 00
- ZWave firmware: Controller Bridge Library 3.20
- ZWave Series Chip: 300 Series

#### Command Classes Supported By Bridge Node

- Controller\_Replication
- Version
- Manufacturer\_Specific
- Basic Device Class: Basic\_Type\_Static\_Controller
- Generic Device Class: Generic\_Type\_Static\_Controller
- Specific Device Class: Specific\_Type\_Not\_Used

#### B. Virtual Nodes

- Manufacturer ID: 00 47
- Product Type: 51 52
- Product ID: 54 xx

XX will be 01 - 16, which represents the RTS channel. For example, if the product ID is 54 08, then it corresponds to RTS channel 8.

#### Command Classes Supported By Virtual Nodes

- Version
- Manufacturer\_Specific
- Switch\_Multilevel
- Switch\_Binary
- Scene\_Activation
- Scene\_Actuator\_Conf
- Basic Device Class: Basic\_Type\_Slave
- Generic Device Class: Generic\_Type\_Switch\_Multilevel
- Specific Device Class: Specific\_Type\_Calss\_A\_Motor\_Control

# PROGRAMMING INSTRUCTIONS

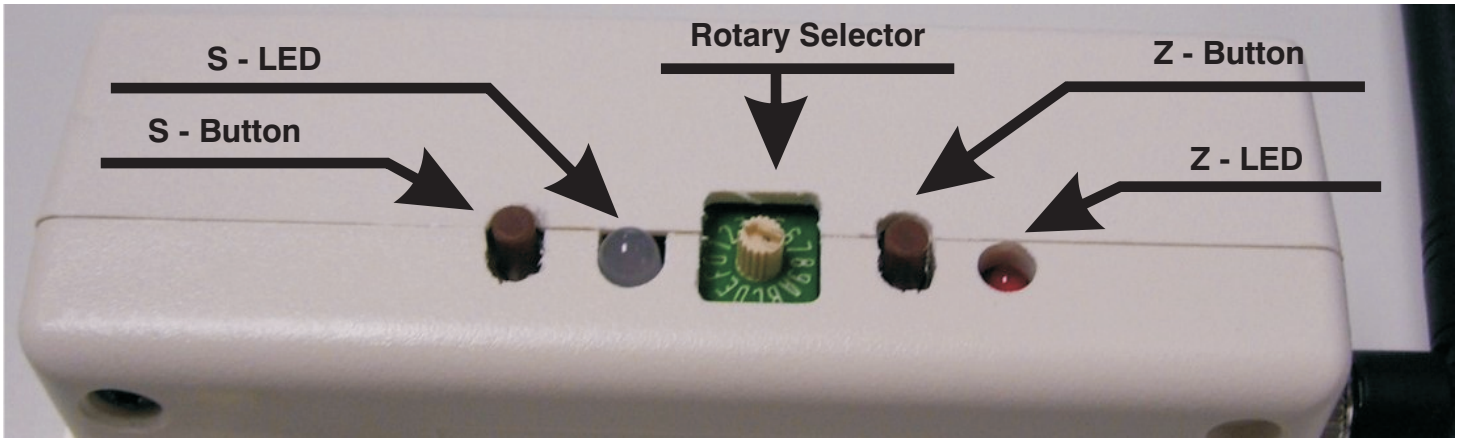


FIGURE 1: ZWave URTSI Buttons and Indicator Layout

## 1 AUTOMATICALLY ADDING THE BASE NODE AND ALL 16 VIRTUAL NODES

1. Verify that the ZRTSI is not included in a ZWave network.
2. Enable the *Listening Mode* on the SIS Controller
3. Enable the *ZWave Node Include Mode* on the ZRTSI
  - A. With the ZRTSI unplugged, press and hold the **S-Button**. Continue holding the button while you plug in the ZRTSI. The **S-LED** will flash for about 6 seconds.
  - B. Release the **S-Button** after the **S-LED** turns solid yellow.
4. Press and Hold the **Z-Button** for about 3 seconds until the **Z-LED** begins to flash. The Base Node and 16 Virtual Nodes will be added to the SIS Controller. This process may take several minutes and the **Z-LED** will flash rapidly from time to time.
5. The process is complete with the **Z-LED** stays solid red for 15 seconds or until all 16 virtual nodes appear in your SIS Control.

## 2 ADDING ONLY THE BASE NODE

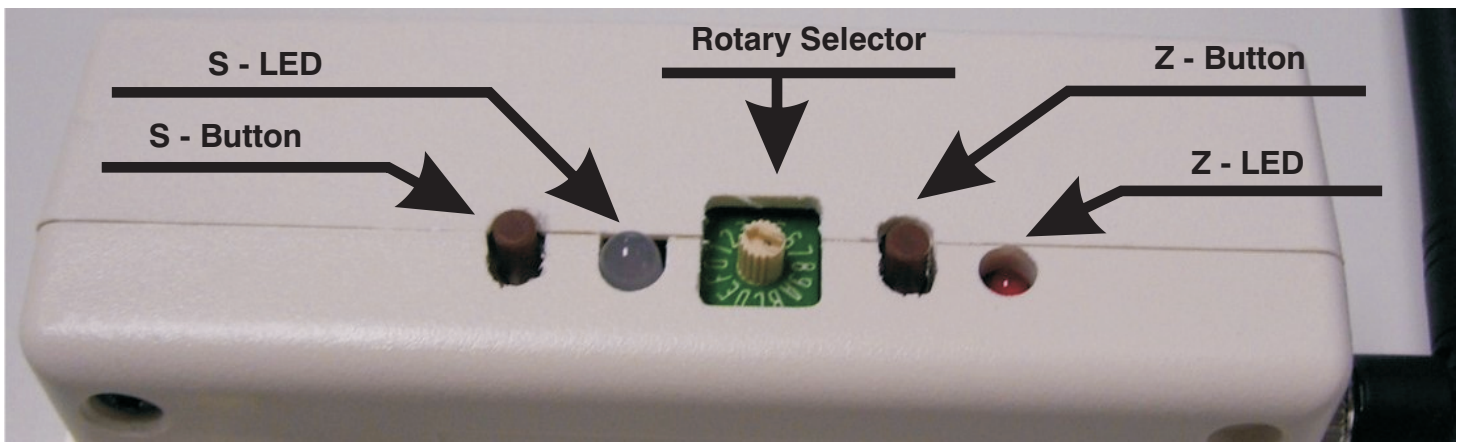
1. Verify that the ZRTSI is not included in a ZWave network.
2. Enable the *Listening Mode* on the SIS Controller
3. Enable the *ZWave Node Include Mode* on the ZRTSI
  - A. With the ZRTSI unplugged, press and hold the **S-Button**. Continue holding the button while you plug in the ZRTSI. The **S-LED** will flash for about 6 seconds.
  - B. Release the **S-Button** after the **S-LED** turns solid yellow.
4. Press and release the **Z-Button**. The **Z-LED** will flash rapidly.
5. The process is complete with the **Z-LED** stays solid red.

## 3 ADDING or REMOVING A VIRTUAL NODE MANUALLY

1. Enable the *Listening Mode* on the SIS Controller
2. Enable the *ZWave Node Include Mode* on the ZRTSI
  - A. With the ZRTSI unplugged, press and hold the **S-Button**. Continue holding the button while you plug in the ZRTSI. The **S-LED** will flash for about 6 seconds.
  - B. Release the **S-Button** after the **S-LED** turns solid yellow.
4. Use the Rotary Selector to choose the RTS Channel. Positions 1 - 9 are equivalent to RTS Channels 1 - 9. Positions A - F are equivalent to RTS Channels 10 - 15. Position 0 is equivalent to RTS Channel 16.
5. Press the **S-Button** for 1 second.
6. Repeating steps 1 - 5 above will Remove the Virtual Node.

## 4 PROGRAMMING AN RTS CHANNEL

1. Enable *Normal Mode* on the ZRTSI
  - A. Press and hold the S-Button until the S-LED turns green. This may take several seconds.
2. According to the specific product instructions, place the RTS motor or control in Programming Mode.
3. Use the Rotary Selector to choose the RTS Channel. Positions 1 - 9 are equivalent to RTS Channels 1 - 9. Positions A - F are equivalent to RTS Channels 10 - 15. Position 0 is equivalent to RTS Channel 16.
4. Press and hold the **S-Button** until the **S-LED** flashes and the RTS product responds (motor will jog). This indicates the RTS channel has been memorized.
5. Verify RTS communication by pressing and releasing the **S-Button**. Each press of the button will sequence through UP - STOP - DOWN - STOP.



**FIGURE 1: ZWave URTSI Buttons and Indicator Layout**

## SUMMARY - MODE DESCRIPTIONS

### NORMAL MODE

1. Inserting the ZRTSI into an AC outlet will turn the **S-LED** green and enable Normal Mode. This means the ZRTSI is prepared for normal operation.
2. If the ZRTSI is in Include or Exclude Mode (**S-LED** is flashing or solid yellow), Normal Mode can be entered by pressing and holding the **S-Button** until the **S-LED** turns green.

### FACTORY DEFAULT MODE

1. With the ZRTSI unplugged, press and hold the **Z-Button**. Continue holding the button while plugging the unit into an outlet. Continue holding the **Z-Button** while the LEDs flash.
2. The ZRTSI is in Factory Default when the **S-LED** is green and the **Z-LED** is off.

### ZWAVE NODE INCLUDE MODE

1. With the ZRTSI unplugged, press and hold the **S-Button**. Continue holding the button while you plug in the ZRTSI. The **S-LED** will flash for about 6 seconds.
2. Release the **S-Button** after the **S-LED** turns solid yellow.

### ZWAVE NODE EXCLUSION MODE (Virtual Nodes Only)

1. Follow the steps above for ZWave Include Mode.
2. Press and hold the **S-Button** for 3 seconds until the **S-LED** begins to flash yellow.
3. Release the **S-Button** while the **S-LED** is still flashing.

### FACTORY DEFAULT INTO INCLUDE MODE

1. To reset the ZRTSI and enter into Include Mode in one step, with the ZRTSI unplugged, press and hold the **S-Button** and **Z-Button** together.
2. Continue holding the both button while you plug in the ZRTSI and continue holding for about 20 seconds until the **S-LED** turns solid yellow.

## SUMMARY - BUTTONS & INDICATORS

### S-BUTTON

- Used for Programming RTS Channels to Somfy RTS Motors or Controls.
- Used for manually including or excluding the ZRTSI in or out of a ZWave network
- Used to verify RTS communication between the ZRTSI and an RTS motor or control
- Used for entering Include or Exclude mode when pressed and held during power up.

### S-LED

- When green, indicates Normal Mode
- Flashing Red indicates that an RTS transmission is occurring.
- Solid yellow shows that a manual node inclusion is allowed
- Flashing yellow shows that a manual node exclusion is allowed

**ROTARY SELECTOR** Used to select individual virtual ZWave nodes or RTS Channels

### Z-BUTTON

- Used when manually including the ZRTSI main node to a ZWave network
- Used for automatically including all virtual nodes
- Used to reset the ZRTSI to Factory Default Mode

### Z-LED

- On during power up, turns off after 5 seconds
- If the ZRTSI is included in a network, the LED will remain on
- Flashes during automatic inclusion of the virtual nodes.