

4 Touch Switch

Introduction

Touch Switch with built-in Z-Wave module that can be used to connect to different devices and be controlled wirelessly.

This product can be included and operated in any Z-Wave network with other Z-Wave certified devices from any other manufacturers. It will act as repeaters regardless of vendor to increase reliability of the network.

Specifications

- EU: 230V 50Hz input, 3A max output (each channel)
- Protocol Version 6.2
- Application Version 2.5
- Manufacturer ID 02 93
- Product Type ID 00 03
- Product ID 44 14

Installation Instructions

IMPORTANT:

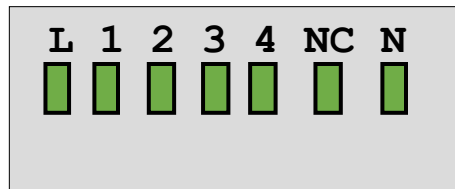
- A qualified electrician with the understanding of wiring diagrams and knowledge of electrical safety should complete the installation inside the main circuit box (normally outside your house)
- Read all instructions and documentation and save for future reference

Step1 Preparing

CAUTION: Cut off power supply at circuit breaker or fuse before installation to avoid fire, shock or death!

Step2 Wiring

1. Connect Hot Line to "L".
2. Connect Neutral Line to "N".
3. Connect Load wire to "1, 2, 3, 4" Terminals.



Operation

ADD the Touch Panel Switch into your network

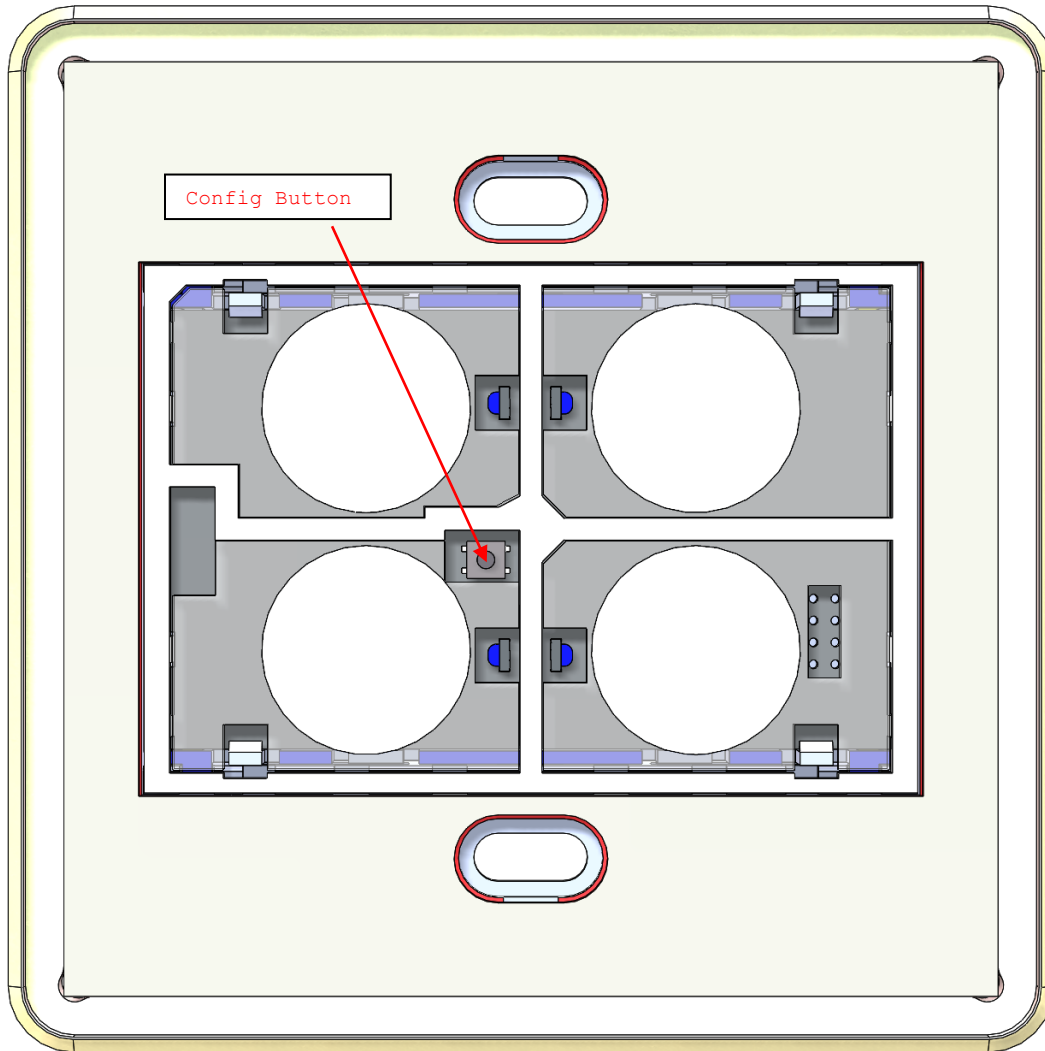
1. Put the controller into ADD device mode. Follow the instructions provided by the controller manufacturer.
2. Touch and hold any key on the panel for more than 5 seconds. All indication lights will blink in blue. At this point release the key, the touch panel will start inclusion process.

REMOVE the Touch Panel Switch from your network

1. Put the controller into REMOVE device mode. Follow the instructions provided by the controller manufacturer.
2. Touch and hold any key on the panel for more than 5 seconds. All indication lights will

blinks blue in color. At this point release the key, the touch panel will start exclusion process.

LOCAL RESET the Touch Panel Switch



1. Press the config button 5 times, Indication LEDs lights willblinks red in color, touch panel will start local reset. Touch panel switch will erase network inclusion state after local reset.

Turning on/off the Touch Panel Switch

The Touch Panel Switch can be controlled by:

- Pressing any key on the Touch Panel
- Sending commands from controller or gateway
 - Binary Command Class (non-encapsulate) for root
 - Binary Command Class (encapsulate) for endpoint

Touch Panel Switch Status Report

- After device is included into ZWave network, if Zwave controller send Association Set to association group lifeline (#1), then if any button touch is pressed, the device will send Switch Binary Report (non - encapsulate) to the destination node of lifeline group.
- If controller send Multichannel Association Set to group lifeline (#1) then the device will send Switch Binary Report (Multichannel encapsulate) of the endpoint status and Switch Binary Report (non - encapsulate) of root status to the destination node.
- For example when a button 1 is pressed, device will send state of root (send on when button that pressed is on, and send off when all button is off) and state of endpoint (encapsulate) via lifeline group.

Command Class

The Command Class that the device supports

Command Class of root device

No	CommandClass	Non-secure added	Securely added	
			Non-secure CC	Secure CC
1	COMMAND_CLASS_ZWAVEPLUS_INFO_V2	Support	Support	
2	COMMAND_CLASS_VERSION_V3	Support		Support
3	COMMAND_CLASS_MANUFACTURER_SPECIFIC_V2	Support		Support
4	COMMAND_CLASS_DEVICE_RESET_LOCALLY	Support		Support
5	COMMAND_CLASS_ASSOCIATION_V2	Support		Support
6	COMMAND_CLASS_ASSOCIATION_GRP_INFO	Support		Support
7	COMMAND_CLASS_MULTI_CHANNEL_V4	Support		Support
8	COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION_V3	Support		Support
9	COMMAND_CLASS_BASIC	Support		Support
10	COMMAND_CLASS_SWITCH_BINARY	Support		Support
11	COMMAND_CLASS_FIRMWARE_UPDATE_MD_V4	Support		Support
12	COMMAND_CLASS_TRANSPORT_SERVICE_V2	Support	Support	
13	COMMAND_CLASS_SECURITY_2	Support	Support	
14	COMMAND_CLASS_SUPERVISION	Support	Support	
15	COMMAND_CLASS_POWERLEVEL	Support		Support

Command Class of Endpoints

No	CommandClass	Non-Secure added	Securely added	
			Non-secure CC	Secure CC
1	COMMAND_CLASS_ZWAVEPLUS_INFO_V2	Support	Support	
2	COMMAND_CLASS_ASSOCIATION_V2	Support		Support
3	COMMAND_CLASS_ASSOCIATION_GRP_INFO	Support		Support
4	COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION_V3	Support		Support
5	COMMAND_CLASS_SWITCH_BINARY	Support		Support
6	COMMAND_CLASS_SUPERVISION	Support	Support	
7	COMMAND_CLASS_SECURITY_2	Support	Support	

Device Type of Endpoints

The table below shows the device type of All Endpoints

Generic Device Classes	Binary Switch	GENERIC_TYPE_SWITCH_BINARY
Specific Device Classes	Binary Power Switch	SPECIFIC_TYPE_POWER_SWITCH_BINARY

Basic command class mapping

- Basic Set = 255 maps to Binary Switch Set = 255
- Basic Set = 0 maps to Binary Switch Set = 0
- Basic Get/Report maps to Binary Switch Get/Report

AGI Configuration

Table below show AGI information.

All endpoint support report status through root device lifeline group #1.

Endpoint 1 to 4 support control other device through root device association group #2~#9, and each group support 5 destination nodes maximum. Group #2 and #3 corresponding to endpoint 1 switch state, and Group #4 and #5 corresponding to endpoint 2 switch state, etc.

Root	Profile	Commands	Group Name
Group 1	General: Lifeline	Device Reset Locally Switch Binary Report	“Lifeline”
Group 2	Control: Key01	Basic Set	“HGT-01”
Group 3	Control: Key01	Switch Binary Set	“HGT-01”
Group 4	Control: Key02	Basic Set	“HGT-02”
Group 5	Control: Key02	Switch Binary Set	“HGT-02”
Group 6	Control: Key03	Basic Set	“HGT-03”
Group 7	Control: Key03	Switch Binary Set	“HGT-03”
Group 8	Control: Key04	Basic Set	“HGT-04”
Group 9	Control: Key04	Switch Binary Set	“HGT-04”

Endpoint 1	Profile	Commands	Group Name
Group 1	General: Lifeline	Switch Binary Report	“SW-01”
Group 2	Control: Key01	Basic Set	“HGT-01”
Group 3	Control: Key01	Switch Binary Set	“HGT-01”

Endpoint 2	Profile	Commands	Group Name
Group 1	General: Lifeline	Switch Binary Report	“SW-02”
Group 2	Control: Key02	Basic Set	“HGT-02”
Group 3	Control: Key02	Switch Binary Set	“HGT-02”

Endpoint 3	Profile	Commands	Group Name
Group 1	General: Lifeline	Switch Binary Report	“SW-03”

Group 2	Control: Key03	Basic Set	"HGT-03"
Group 3	Control: Key03	Switch Binary Set	"HGT-03"

Endpoint 4	Profile	Commands	Group Name
Group 1	General: Lifeline	Switch Binary Report	"SW-04"
Group 2	Control: Key04	Basic Set	"HGT-04"
Group 3	Control: Key04	Switch Binary Set	"HGT-04"

Hogar's Touch Switch in 2nd, 3rd, 4th, 5th, 6th, 7th, 8th and 9th group allows to control 5 regular or multichannel devices per an association group.

It is not recommended to associate more than 10 devices in general, as the response time to control commands depends on the number of associated devices. In extreme cases, system response may be delayed.

End points 1,2,3,4 supporting 3 groups as table above include status notice to group 1("lifeline group") and control devices at other groups.

Configure operation for endpoints

For endpoints (from 1 to 4) operate with group 1, a controller needs to send Association Set command (in the case endpoints only notice status via switch binary report command) or Multichannel Association Set command (in the case endpoints will notice status via switch binary report on encapsulated command and common status of root device – status of root determined is OFF in case of all endpoints off, and ON in case of at least one endpoint on)

For endpoints (from 1 to 4) operate with groups (different with "lifeline"), a controller will have to send Association Set command or Multichannel Association Set command.