

Insert Module Switch



**VER 2.3** 

# Caution

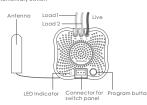
- Insert module switch is designed for indoor use only
- All installation must be performed by qualified electrician Please refer to the "Load Type Table" for proper
- liahtina load installation
- Metal wall box is not recommended to use, it would shorten RF distance.
- RF distance would be affected by specific material. such as mirror, metal, or high power electronic devices

### **Product introduction**

2 Gang Insert Module Switch is designed to operate without neutral wire. It operates with different loads, including Incandescent lamps, halogen lamps or LEDS. This device is compatible with standard Z-Wave gateway or devices for emote control & interoperation. It can act as repeater to crease reliability of network .

Support types of switch panel:

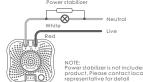
-o - : Momentary Switch



### Technical Specification

Type of Load	Min. Load (Load 1 only)	Max. Load
Incandescent lamp Halogen lamp	20W	300W
LED	12W	200W
Fluorescent lamp	14W	200W
CFL	14W	200W

Load Type Table (Reference by PHILIPS lighting source)



	-	
Model	IMZ6220	
Power Supply	AC 230V 50HZ	
Type of Loads	Refer to Load Type Table	
Dimensions	48*46*18mm	
Operation Temperature	0~40°C	
Radio Frequency	869.85MHZ EU 919.70MHZ KR 865.20MHZ IN 916.00MHZ US 919.80MHZ HK	
RF distance	Up to 40m indoors  *RF distance would be affected by specific material, such as mirror, metal, or high power electronic devices	

# LED Indication

Flash once	Light On / Light Off	
Quick Flashing	Device Inclusion / Exclusion	
Light up for 3 sec	Device Inclusion / Exclusion Completed	
	Setting Completed	
	Reset Completed	
Slow Flashing	Overheat protection activated	

# Installation

Caution: All installation on this device must be performed by qualified or licensed electrician

Step 1: Make sure to turn off the Miniature Circuit Breaker (MCB) before the installation



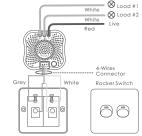


Step 5: Device add to Z-Wave network

Step 4: Turn on the Miniature Circuit Breaker (MCB)

1.Set the gateway in device add mode
 2.Quick press the "program button" 3 times, LED quick
 flashing to enter "Device Z-Wave network add mode", LED
 light up for 3 sec to indicate device network add process
 complete.

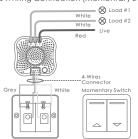
Step 3a: Wiring Connection (Rocker Switch)



Step 6: Completion

1.Stick the antenna inside the wall box 2.Put the insert module into the wall box 3.Install the switch panel

## Step 3b: Wiring Connection (Momentary Switch)



Selection of Switch Types

- Rocker Switch: Factory default
- Momentary Switch: Quick pressing any switch button 5 times. LED lights up for 3 sec to indicate setting complete. (Go to "factory default reset" in case of switching back



# Operating Instruction:

- Turn On / Turn Off
- Control by module: Turn on or off the light by pressing the
- Control by switch panel: Turn on or off the light by
- pressing any button of switch panel.
- Control by apps: Turn on or off the light by gateway apps.

- program button.

# Overheat protection

### 1. By device module:

Quick pressing the program button 3 times (LED quick flashing) to enter "Device Add/Remove" mode. LED lights up for 3 sec to indicate device Add/Remove

Device add / Remove to Z-Wave network

Set the gateway in device Add/Remove mode

### 2. By switch panel:

ting only available after 10 mins of AC power on )

- Rocker Switch: Quick pressing the on and off buttons continuously (5 times on each button) ( LED quick flashing ) to enter "Device Add/Remove" mode LED lights up for 3 sec to indicate device add/remove process complete.

Quick pressing any switch button 5 times ( LED quick flashing ) to enter "Device Add/Remove" mode. LED lights up for 3 sec to indicate device add/remove

When the device is overheated, it will enter overheat protection mode (LED slow flashing), The connected lighting will be flashing 3 times if the device is being

• The device operation will be resumed to normal after

### Factory default Reset

Press and hold the program button for 10 sec, LED lights up for 3 sec to indicate the factory default reset complete.

Note:Please use this procedure only when the network primary controller is missing or otherwise inoperable.

### **Advanced Configuration**

1. Selection of Switch types

Parameter number	Parameter Size	Value	Description
1	1	00	Momentary switch panel
1	1	FF (default)	Rocker switch panel

2. Rocket switch button "on/off location" synchronize with insert module on/off status

Parameter number	Parameter Size	Value	Description
2	1	00	Synchronize
2	1	FF (default)	Not Synchronize

3. Default Lighting on/off control when AC power on

Parameter number	Parameter Size	Value	Description
3	1	00	Load 1&2: off
3	1	FF (default)	Load 1&2: resume last status

# **Associations**

Once association set up through the gateway, association group allows direct control and communication between insert module and Z-Wave devices without gateway.

• The insert module has 5 associations groups.

Support 1 node max .This group is dedicated for device status reporting to gateway/master controller Z-Wave command class: SWITCH BINARY REPORT

DEVICE\_RESET\_LOCALLY\_NOTIFICATION

## Command Classes

- COMMAND\_CLASS\_VERSION
- COMMAND\_CLASS\_ZWAVEPLUS\_INFO • COMMAND\_CLASS\_ASSOCIATION
- . COMMAND CLASS ASSOCIATION GRP INFO COMMAND\_CLASS\_DEVICE\_RESET\_LOCALLY
- COMMAND\_CLASS\_CONFIGURATION
- COMMAND\_CLASS\_MANUFACTURER\_SPECIFIC
- COMMAND\_CLASS\_POWERLEVEL COMMAND\_CLASS\_SWITCH\_BINARY
- COMMAND\_CLASS\_MULTI\_CHANNEL
- COMMAND\_CLASS\_MULTI\_CHANNEL\_ASSOCIATION

Support 2 nodes max. This group is dedicated for "load 1 on", BASIC SET ON command will be sent out when load 1 is turned on.

# GROUP 3

GROUP 2

Support 2 nodes max. This group is dedicated for "load 2 on", BASIC SET ON command will be sent out when load 2 is turned on.

Support 2 nodes max. This group is dedicated for "load 2 off", BASIC SET OFF command will be sent out when load 2 is turned off.

### **Root Device Implement:**

Root device of Switch module implement switch on/off all endpoint together function. One of endpoint switch furn on reflects root switch turn of the function to the function that the function that the function that the function of the fun

### Device Class:

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GENERIC\_TYPE\_SWITCH\_BINARY

SPECIFIC\_TYPE\_POWER\_SWITCH\_BINARY

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**Endpoint Device Class:** 

GENERIC\_TYPE\_SWITCH\_BINARY

# SPECIFIC TYPE POWER SWITCH BINARY

- **Endpoint Device Class:**
- COMMAND CLASS ZWAVEPLUS INFO • COMMAND\_CLASS\_SWITCH\_ALL
- COMMAND\_CLASS\_SWITCH\_BINARY

# **Frequently Asked Questions**

Problems	Possible Reasons	Possible Solution
Device add failed	Device is already added in other gateway	Reset to factory default
Remote control failed	Wireless Signal Unstable	Please check the network, make sure the distance between the device and the gateway is with in the designed range. 2-Wave Repeater may need if the range is out of specification.
Failed to turn on the light	Wrong wiring connection	Please check the wiring connection and ensure it is connected according to the instruction
		THE HISHOCHOT

Problems	Possible Reasons	Possible Solution
Light flash or turn off automatically	Wrong wiring connection	Please check the wiring connection and ensure it is connected according to the instruction
	Controlled by other interoperate devices in the system	Ensure there is no conflict on interlock setting
	Loading is less than there quired minimum load	Replace a proper loading according to the load type table
	Loading is too large & overheated.	Replace a proper loading according to the load type table
LED Indicator slow flashing continuously	Overheated caused by other reasons	Turn off the light for a period of time. If the problem still exist, the lighting load has been damaged, please replace a new lighting load.

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