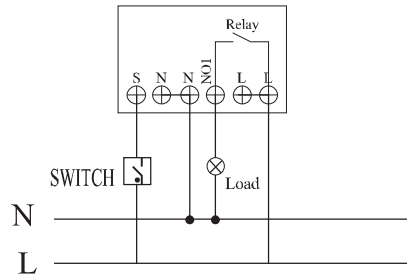


## Wiring diagram



L: Line voltage input  
 NO1: Switched load output  
 N: Line neutral  
 S: Connect to wall switch input



## Specification

Operating Voltage	AC110V~230V 50Hz/60Hz
Maximum Load	3000W,(1500W for US)
Range	Minimum 40m in door 70m outdoor line of sight
Operating Temperature	0°C ~ 40°C
Frequency Range	868.4MHz(EU),908.4MHZ(US),921.4MHz(AU),869MHz(RU)



## Interoperability with Z-WAVE devices

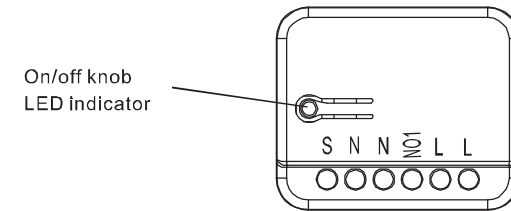
A Z-Wave network can integrate devices of various classes made by different manufacturers. The TZ78 can be incorporated into existing Z-Wave networks. The TZ78 module can be used to carry out inclusion, association, or exclusion.

## Warning:

1. Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.
2. Contact your local government for information regarding the collection systems available.
3. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.
4. When replacing old appliances with new one, the retailer is legally obligated to take back your old appliance for disposal at least for free of charge.

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## TZ79 Insert switch module



Note: This module must be "Included in the network", and suitable for where it will be permanently installed. The proper operation of this node in the mesh network is dependent on it knowing its location with respect to other nodes. You can not "test bench" configure this module, then install.

This insert switch module in a transceiver which is a Z-Wave enabled device and is fully compatible with any Z-Wave enabled network. Z-Wave enabled devices displaying the Z-Wave logo can also be used with it regardless of the manufacturer, and ours can also be used in other manufacturer's Z-Wave enabled networks. Remote On/Off control of the connected load is possible with other manufacturer's wireless controller. Each switch is designed to act as a repeater. Repeaters will re-transmit the RF signal to ensure that the signal is received by its intended destination by routing the signal around obstacles and radio dead spots. This plug-in On/Off switch is able to detect current wattage (5~3000W) and overload wattage (3010~3300W) of connected lights or appliances. When detecting overload state, the Switch will be disabled and its On/Off button will be lockout of which LED will flash quickly. However, unplug and re-connect the switch will reset its overload condition to normal status.

The product supports Over The Air(OTA) feature for the products firmware upgrade.

## Adding to Z-Wave™ Network

In the front casing, there is an On/Off button with LED indicator which is used to toggle switch on and off or carry out inclusion, exclusion, reset or association. When first power is applied, its LED flashes on and off alternately and repeatedly at 1-second intervals. It implies that it has not been assigned a node ID and can not work with Z-Wave enabled devices.

The table below lists an operation summary of basic Z-Wave functions. Please refer to the instructions for your Z-Wave™ certificated primary controller to access the setup function, and to include/exclude/associate devices.

Function	Description	LED Indication
No node ID	The Z-Wave Controller does not allocate a node ID to the Switch.	1-second on, 1-second off
Add	1. Have Z-Wave Controller entered inclusion mode.	Press on, for on Press off, for on
	2. Pressing On/Off button three times within 1.5 seconds will enter inclusion mode.	
Remove	1. Have Z-Wave Controller entered exclusion mode.	Press on, for on Press off, for on
	2. Pressing On/Off button three times within 1.5 seconds will enter exclusion mode.	
	Node ID has been excluded.	1-second on, 1-second off
Reset	1. Pressing On/Off button three times within 1.5 seconds will enter inclusion mode.	Press on, for on Press off, for on
	2. Within 5 second, press On/Off button again for 1 seconds until LED is off.	
	3. ID is excluded	1-second on, 1-second off
Association	1. Have Z-Wave Controller entered association mode. Or Pressing On/Off button three times within 1.5 seconds will enter association mode	Press on, for on Press off, for on
	2. There are two groups for the switch Each group can associate max five devices.	
※ Including a node ID allocated by Z-Wave controller means Add. Excluding a node ID allocated by Z-Wave controller means remove. ※ Failed or success in including/excluding the node ID can be viewed from the Z-Wave controller. ※ Association:it can be associated by Z-Wave devices with association ※ Use the"Reset" procedure only in the event that the network primary controller is missing or otherwise inoperable ※ The group identifier is "Group 1". Association group info report command class Profile:General lifeline (Profile MSB=0x00,Profile LSB=0x01) Association group name report command class Group 1 :lifeline		



### Z-Wave Configuration

Configuration Parameter	Function	Size (Byte)	Value	Unit	Default	Description
1	Change the state of indicator light	1	0-1		1	
2	Memory function	1	0-1		1	
3	Watt Meter Report period	2	0x01-0x7FFF	5s	720	5*720s=3600s=1 hour
4	KWH Meter Report period	2	0x01-0x7FFF	10min	6	6*10min= 1 hour
5	Threshold of Watt for load caution	2	10-3000	1Watt	3000	
6	Threshold of KWH for load caution	2	0-10000	Kwh	0	
7	Edge or Pulse mode or Edge-Toggle mode	1	1-3		3	1:Edge mode 2:Pulse mode 3:Edge-togle mode

watt Meter Report Period:

If the setting is configured for 1 hour (set value =720), the TZ79 will report its instant power consumption every 1 hour to Z-Wave Controller. The maximum interval to report its instant power consumption is 45 hours (5s\*32767/3600=45hr).

**KWH Meter Report Period:**

If the setting is configured for 1 hour (set value =6), the TZ79 will report its Accumulated Power Consumption (KW/h) every 1 hour to Z-Wave controller. The maximum interval to report its Accumulated Power Consumption (KW/h) is 227.55 days (10min\*32767/1440=227.55 days).

**Threshold of Watt for Load Caution:**

In the above form, when the value is 3000, if relay1 load by below 3000 watt turned into more than 3000 watt, will immediately send the instantaneous load w value to Group 1. The maximum set scope is 3000 watt, minimum scale value of 10 watt, the default value is 3000 watt.

**Threshold of KWH for Load Caution:**

In the above form, when the value of 10000, when the accumulation of relay1 consumed power more than 10000 KWH, will immediately send the accumulation of current consumed power to group1. Maximum can set range to 10000 KWH, minimum scale value is 1 KWH, the default value is 0, 0 not have load caution.

**Memory function:**

Stated in the above form, TZ79 by default value is 1, when the value is 0, TZ79 memory function not open; When the value is 1, open TZ79 memory function.

**Change the state of indicatorlight:**

Stated in the above form, the default value is 1, when the value of TZ79 is 0, socket LED indicator will be on when the light status is " on "; When set to 1, the socket LED indicator will be off when the light status is " on ".

Symptom	Cause of Failure	Recommendation
The switch isn't working and LED off	1.The switch is not connected to the power 2. The switch is out of order	1. Check power connections 2. Don't open up the switch and send it to repair.
The switch LED illuminating, but can not control the On/Off switch of the load attached	Check if the load plugged into the switch has its own On/Off switch	Set the On/Off switch of the load attached to on
The switch LED illuminating, but the controller can not control the switch	1. Not carry out association 2. Frequency interference	1. Carry out association 2. Wait for a while to re-try
LED keep flashing, but cannot control	Overload occurs	Remove the load attached or check max. load cannot exceed 3010W~3300W

### Product size (mm)

