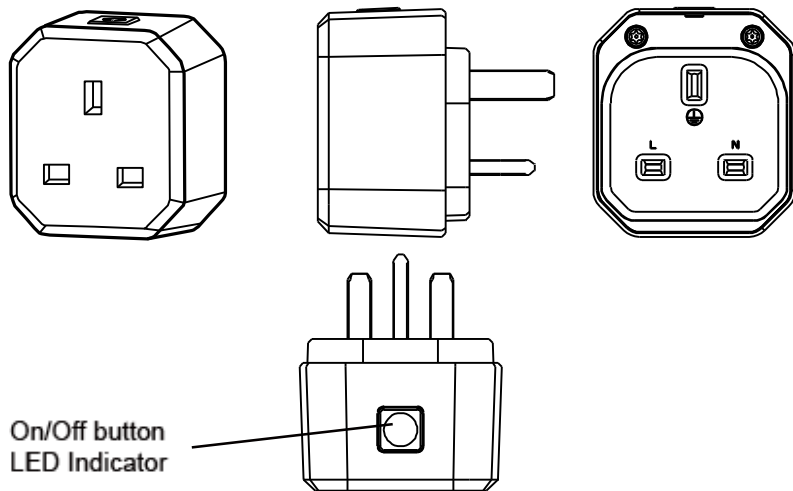


AN370

SMART PLUG

This AN370 plug-in ON/OFF Module is a transceiver which is a Z-Wave™ enabled device and is fully compatible with any Z-Wave™ enabled network. This product can be operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers. All mains operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network. Each module 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.



Adding to Z-Wave™ Network

The unit supports SmartStart function, where inclusion is initiated automatically on power-on, and repeated at dynamic intervals for as long as the device is not included into a Z-Wave™ network. Z-Wave™ SmartStart is based on the embedded SDK 6.8x and requires related gateway software components.

SmartStart enabled products can be added into a Z-Wave network by scanning the Z-Wave QR Code present on the product with a controller providing SmartStart inclusion. No further action is required and the SmartStart product will be added automatically within 10 minutes of being switched on in the network vicinity.

If the gateway does not support SmartStart function, this device can be added to the Z-Wave™ network using manual inclusion, or by scanning the DSK QR code or entering a 5-digit Device Specific Key (DSK) when requested by the gateway.

Safety Precautions & Installation

To ensure your safety, please read this manual carefully before installing the device; follow the instructions exactly. The manufacturer, Everspring Industry Co., Ltd, shall not be legally responsible for any equipment damage or personal injury caused by incorrect installation or operation other than that covered in the manual.

- Do not use in damp, moist or wet locations. The product is intended for indoor use only in dry locations.
- To avoid risk of electrical shock, do not operate the device with wet or moist hands.
- This product is not a toy, keep away from children and animals.

1. Plug this On/Off Module into a wall outlet near the load to be controlled.
2. Plug the load into the Module. Make sure the load to be controlled cannot exceed 2990 watts.
3. Press the button or switch on the load to the ON position.

4. To manually turn ON the Module, press and release the On/Off button. The LED will turn ON, and the load plugged into the Module will also turn ON.
5. To manually turn OFF the Module, simply press and release the On/Off button. The LED will turn OFF and the load plugged into the Module will also turn OFF.

Programming

Z-Wave™ Group Support

The unit supports two association groups with 5 nodes support for Grouping 1 and 5 nodes support for Grouping 2. This has the effect that when the unit is operating, all devices associated with the unit will receive the relevant reports.

- When the unit is powered for the first time, the unit will send a Notification Report to the node of Group 1.
- When setting the unit or changing the unit's status, the unit will send a Binary Switch Report to the node of Group 1.
- When performing Reset the unit will send Device Reset Locally Notification to the node of Group1.
- When the button on the unit or the wall switch is pressed, the unit will send a Basic Set command to the nodes of Group 2. When the unit is OFF, Basic Set Value = 0x00. When the unit is ON, Basic Set Value = 0xFF.

Z-Wave Plus™ Info

Role Type	Node Type	Installer Icon	User Icon
Slave Always On	Z-Wave Plus™ node	On/Off Power Switch	On/Off Power Switch

Version

Protocol Library	3 (Slave_Enhance_232_Library)
Protocol Version	7.17.2

Manufacturer

Manufacturer ID	Product Type	Product ID
0x0060	0x0034	0x0001

AGI (Association Group Information) Table

Group	Profile	Command Class & Command (List) N bytes	Group Name(UTF-8)
1	General	Binary Switch Report, Notification Report, Device Reset Locally Notification Indicator Report	Lifeline
2	Control	Basic Set	On/Off control

Basic commands

Command	Description
Basic Get	Inquire about the status of the device
Basic Report	Report the status of the device.
Basic Set	Set the status of the device.(Value=0XFF (ON), 0x00 (OFF))

Notification

Event	Type	Event	Event Parameters Length
Power applied for first time	0x08	0x01	0x00

Configuration

The configurable values are as following:
Remember the last status:

Parameter Number	Size	Range	Default
1	1	1/0	1: remember(0: do not remember)

LED on/off:

Parameter Number	Size	Range	Default
2	1	1/0	1: enable (0: disable)

Command Classes

The module supports Command Classes including...

Command Class	Version	Required Security Class
ZWAVEPLUS_INFO	2	None
ASSOCIATION	2	Highest granted Security Class
MULTI_CHANNEL_ASSOCIATION	3	Highest granted Security Class
ASSOCIATION_GRP_INFO	3	Highest granted Security Class
TRANSPORT_SERVICE	2	None
VERSION	3	Highest granted Security Class
MANUFACTURER_SPECIFIC	2	Highest granted Security Class
DEVICE_RESET_LOCALLY	1	Highest granted Security Class
INDICATOR	3	Highest granted Security Class
POWERLEVEL	1	Highest granted Security Class
SECURITY	1	None
SECURITY 2	1	None
SUPERVISION	1	None
FIRMWARE_UPDATE_MD_	5	Highest granted Security Class
NOTIFICATION	8	Highest granted Security Class
SWITCH_BINARY	2	Highest granted Security Class

CONFIGURATION	4	Highest granted Security Class
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Indicator Command Class

Indicator ID	Property ID	Value	Description
0x50	0x03	0~255	On/Off Period
0x50	0x04	0~255	On/Off Cycle
0x50	0x05	0~255	On time within an On/Off period

Additional Command Classes Supported

- Power Level: For test purpose during product installation.
- Binary Switch: Refer to Basic.
- Firmware Update: For OTA function.

Troubleshooting

The table below lists the several steps involved when adding or removing the detector from the Z-Wave™ network.

Action/Status	Description	LED indication
No node ID(0x50)	The Z-Wave™ Controller does not allocate a node ID to the unit.	2-second on, 2-second off
Inclusion	1. Put the Z-Wave™ Controller into inclusion mode.	
	2. Press the button three times within 1.5 seconds to put the unit into inclusion mode.	
Exclusion	1. Put the Z-Wave™ Controller into exclusion mode.	
	2. Press the button three times	

	within 1.5 seconds to put the unit into exclusion mode.	
Reset (This procedure should only be used when the network primary controller is inoperable.)	1. Press the button three times within 1.5 seconds to put the unit into exclusion mode.	
	2. Within 1 second of step 1, press link key again and hold until LED is off (about 5 seconds).	
	3. Node ID is excluded. The device reverts to factory default state and will be in auto-inclusion mode for 4 minutes.	
※ Failed or successful results in including/excluding the ID can be viewed on the Z-Wave™ Controller.		

Note: If you are connecting this unit to a Z-Wave™ Controller that utilizes the S2 security protocol, you may be asked to enter a 5 digit Device Specific Key (DSK) that is unique to each unit by your controller. This can be found in one of two places:

- on the QR code label on the unit
- on the insert card inside the packaging

Symptom	Cause of Failure	Recommendation
Device not responding and LED not displaying	The device is not connected to the mains power correctly	Check if connection is correct, or voltage is too high or too low
	Device malfunction	Send the device to be repaired
LED displaying, but cannot control On/Off status of connected load	The connected load has its own on/off switch	Turn the switch of the connected load to On.
Can press button to control, but cannot control by RF	RF interference is occurring. Someone nearby might be emitting	Wait for a while and retry the operation

	RF signal of the same frequency	
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Specification

Operating Voltage	230VAC/50Hz
Maximum Load	UK Plug Resistive load: 2990W Incandescent load: 1500W Fluorescent load: 15 x 40W LED: 200W
Range	100 m line of sight
Frequency Range	AN370-3:868.42 MHz(UK)

** Specifications are subject to change and improvement without notice.



Warning:

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.

Contact your local government for information regarding the collection systems available.

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.

When replacing old appliances with new once, the retailer is legally obligated to take back your old appliance for disposal at least for free of charge.



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