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Single Touch Light Switch

USER MANUAL

KP-SW-07
V1.0

1. Product Introduction

Touch switch is an in-wall switchgear based on Z-Wave wireless radio frequency technology for intelligent control. This product can be added to the gateway or PC controller supporting Z-Wave Plus, remotely controlled through the APP interface, or manually controlled by the touch. In addition, the product also supports the scene mode, the user can configure the scene through the APP, combine various devices in the same scene, and run the scene function through the APP or manually.
KP-SW-07 is an intelligent touch switch that one touch switch button can control one way output.

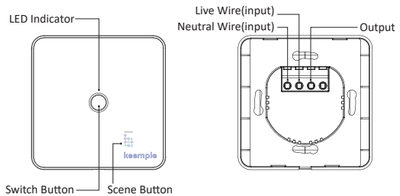
2. Package Contents

- 1x Wall Switch
- 1x User Manual
- 2x Screws

3. Product features

(1) Supporting touch control device switch state;
(2) Supporting Smart Start;
(3) Supporting S0 and S2 security network;
(4) Supporting scene button mode;
(5) Z-Wave Plus certified for good compatibility (500 serials chipset);
(6) Supporting LED light indication status: inclusion, exclusion, normal working status, scene mode, etc.
(7) Supporting repeater role;
(8) Supporting firmware OTA

4. Product layout

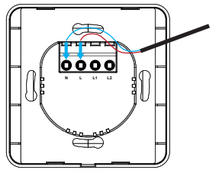


5. Specifications

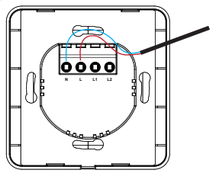
Power supply:	AC 110-240V, 50Hz
Rated load current:	10A MAX
Power consumption:	≤0.6W
Nominal input voltage:	230V
Storage environment:	-20℃~60℃
Operational temperature:	-10℃~45℃
Wireless protocol:	Z-Wave
Wireless frequency:	868.42MHz(EU)
Wireless Range:	More than 100m outdoors About 40m indoors (depending on building materials)
Dimensions:	85mm(L)*85mm(W)*32.5mm(H)

6. Installation Steps

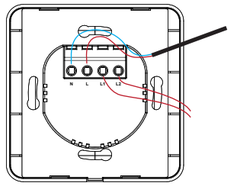
Note: Please disconnect the power before operation
Remark: Below blue wire is neutral wire (N).The red wire is live (L)
For the KP-SW-07 Touch Switch, the household loads can only be connected to the L1 of the touch switch.



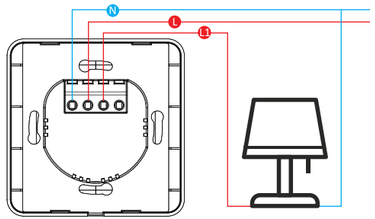
1) Screw off the screws of touch switch, then connect family wires of N and L to N and L wires of touch switch.



2) Screw on the screws.



3) Connect household loads to the L1 of touch switch.



Note:
In the state of electricity, do not directly touch the wiring part by hand. The maximum load current cannot exceed 10A, otherwise the touch switch will be damaged.

7. Button and Indicator LED

Function of Action Button:

Trigger	Description
Power on	When the load is open, the red light is on, and when the load is close, the blue light is on.
Short press once	Changing the status of Touch Switch's load. When the load is open, the red light is on, and when the load is close, the blue light is on.
Long press 1-5 seconds	Long press 1-5 seconds, the red light flashes slowly, and the previous indication state is restored after release.
Long press 5-10 seconds	When the button is pressed for 5-10 seconds, the pink light flashes slowly, and after the release, the blue light flashes quickly. (Inclusion mode or Exclude mode)
Long press more than 20 seconds	Long press the button for 20 seconds, the LED flashes slowly from red to pink color, and then LED will keep on for 3 seconds in pink, this procedure will reset Touch Switch to factory default.

Scene button

Trigger	Functional description	LED status
Short press for 1 time	Send scene commands	The red light is on for 3 seconds, then cut back to the default state (blue)

8. Security features of Smart Switch in Z-Wave network

Touch Switch can be included and operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers and/or other applications. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.
This device must be used in conjunction with a Security Enabled Z-Wave Controller in order to fully utilize all implemented functions.

Add for inclusion (non-security and security):
(1) Connect the power supply.
(2) Set the Z-Wave network main controller into learning mode.
(3) Press and hold the button (the red light flashes slowly) until the pink light flashes slowly and then release, the device sends the network information (blue light flashes quickly).
(4) After the network is successfully connected, the LED indicator of the device is steady blue, and the load is off by default.

Add for inclusion (SmartStart):
(1) Scan the QR code on your device, and add the device DSK to the main controller.
(2) Power on Touch Switch, the LED indicator starts to flash slowly in blue and enters SmartStart mode.
(3) After the device accesses the network successfully, the device LED indicator is steady blue and the load is off by default.

Note:
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.

The node info frame supports (S2):

COMMAND_CLASS_ZWAVEPLUS _INFO	V2
COMMAND_CLASS_TRANSPORT_SERVICE	V2
COMMAND_CLASS_SUPERVISION	V1
COMMAND_CLASS_SECURITY	V1
COMMAND_CLASS_ SECURITY_2	V1

Security S2 Command Supported Report Frame:

COMMAND_CLASS_VERSION	V2
COMMAND_CLASS_SCENE_ACTUATOR_CONF	V1
COMMAND_CLASS_SCENE_ACTIVATION	V1
COMMAND_CLASS_ASSOCIATION_GRP_INFO	V1
COMMAND_CLASS_ASSOCIATION	V2
COMMAND_CLASS_POWERLEVEL	V1
COMMAND_CLASS_CENTRAL_SCENE	V3
COMMAND_CLASS_CONFIGURATION	V1
COMMAND_CLASS_FIRMWARE_UPDATE_MD	V4
COMMAND_CLASS_DEVICE_RESET_LOCALLY	V1
COMMAND_CLASS_SWITCH_BINARY	V1
COMMAND_CLASS_MANUFACTURER_SPECIFIC	V2

9. Z-WAVE NETWORK EXCLUSION

Remove for exclusion:
(1) Power on the switch.
(2) Set the Z-Wave network controller into the exclusion mode.
(3) Long press the switch button(Red LED blink slowly) when Pink LED indicator light blink slowly, release the button, then the device start to send out exclusion information(Blue LED indicator in quick blinking).
(4) When exclusion successfully, LED display is steady blue, load is off.

10. RESETTING SWITCH

Reset procedure will delete all information in the Z-Wave network or Z-Wave gateway, and will restore switch to factory default settings.
1. Make sure switch is powered.
2. Touch and hold the Switch button for 20 seconds.
3. Until the pink light is always on, release the button.

Note:
Once the reset procedure is completed, Switch's relay will turn off. Use this procedure only in the event that the network primary controller is missing or otherwise inoperable.

11. Note for special command

ASSOCIATION
Association command class allows Touch Switch to communicate with other Z-Wave devices directly. Group 1 is lifeline service that assigned to touch switch status. It enables touch switch to send reports to Z-Wave Gateway whenever some button is touched. This Group Support:

Grouping Identifier	Max Nodes	Send Commands
Group 1	5	1. Switch Binary Report 2. Device Reset Locally Notification 3. Central Scene Notification
Group 2	5	1. Scene Activation Set

Switch Binary Command
Touch Switch offers a wide variety of advanced configuration settings. Below parameters can be accessed from main controllers configuration interface.

Parameter No. 21 Setting device status after power failure
Define how the Switch reacts after the power supply is back on.

0 – Touch Switch memorizes its state after a power failure.
1 - Touch Switch does not memorize its state after a power failure. Connected device will be on after the power supply is reconnected.
2 - Touch Switch does not memorize its state after a power failure. Connected device will be off after the power supply is reconnected.

Default setting: **0**
Parameter size: **1 [byte]**

Parameter No. 24 Notification when Load status change
Touch Switch can send notifications to association device when state of Touch Switch's load change.

0 - The function is disabled.
1 - Send Switch binary report.
2 - Send Switch binary report only when Load condition is not changed by Z-WAVE Command.

Default setting: **1**
Parameter size: **1 [byte]**