

Datasheet

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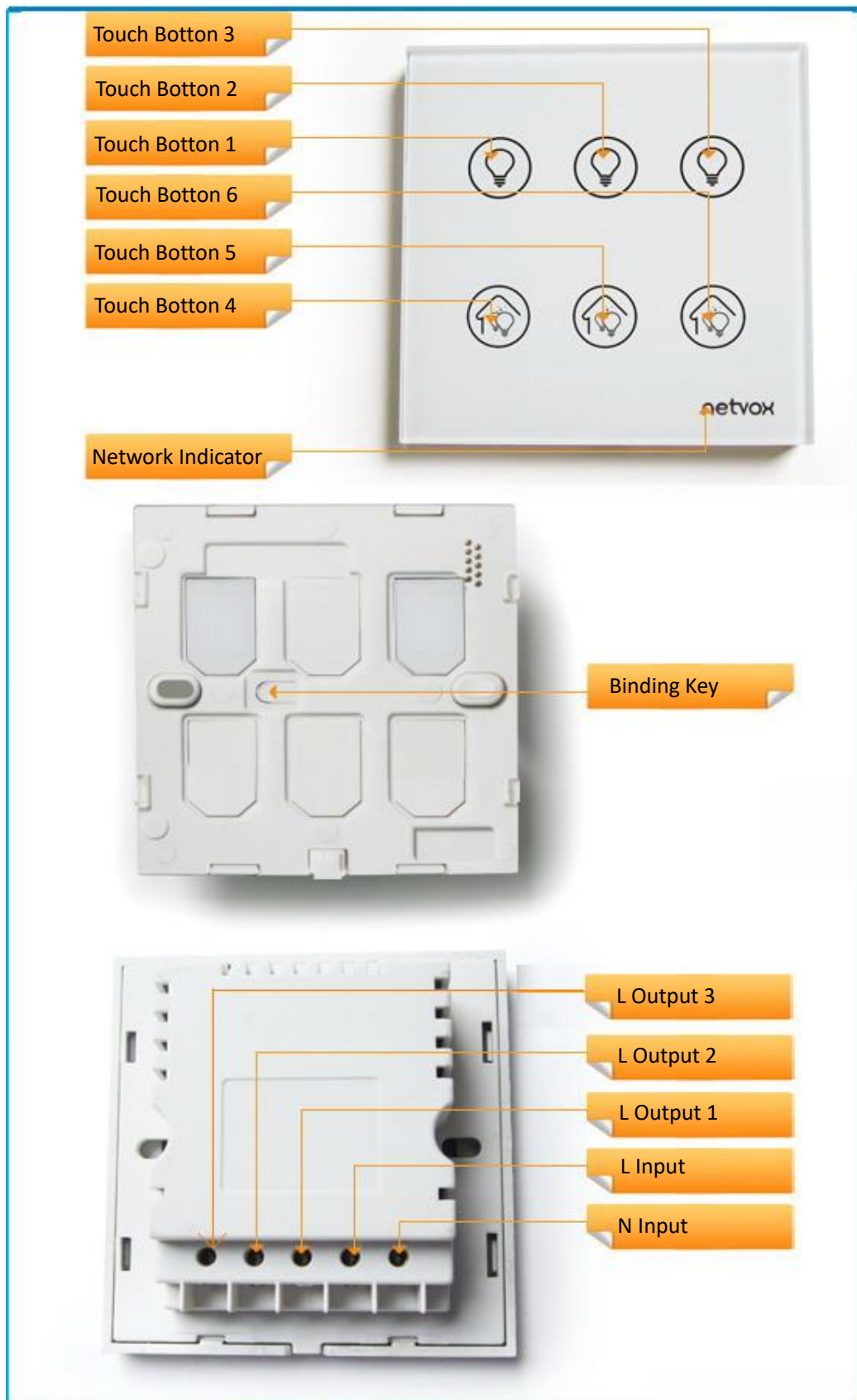
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Z825K Product Appearance

General Description

Z825K (wireless programmable touch switch) is a high-reliability device about indoor wireless smart switch control and scene control. The hardware adopts the chip module that meets the protocol based on 2.4GHz IEEE802.15.4. The software adopts the ZigBee Pro™ standard and follows the ZigBee HA profile. Z825K can communicate with routers and the coordinator of ZigBee network. Z825K itself also acts as a router allowing other devices to join its network.

Z825K has up to three relays with high load capacity. The users can remotely control it through ZigBee commands. Z825K also has ability to detect the voltage, total current, total power consumption and other electrical parameters of the controlled circuit. All of parameters can be viewed by the user through the terminal software of mobile phone, tablet or PC. In addition, Z825K also supports scene control. Users can store and recall scenes through touch buttons on the panel or Zigbee commands.

Application Field

Indoor smart electrical switches such as home or business.

Main Characteristics

- Based on 2.4GHz IEEE802.15.4/ZigBee Pro™ Protocol
- As a router, allowing other devices to join its network
- Up to three local relay switches output.
- The remote scene control
- Controlled circuit voltage, total current, total power and other parameters can be measured
- Storage chip with memory can record the total energy consumption information of the controlled circuit
- Capacitive touch control

Technical Specifications

Electric

Rated Voltage	100-240VAC , 50/60Hz
Power Consumption	0.5W (8mA/230V/50Hz)
Rated Output Current	10A
Typical Load Characteristics	Resistive load : 10A/250VAC; P:2500VA Inductive load : 8A/220VAC; P:1760VA (COSφ=0.4) Motor load : 1.5HP/240VAC Incandescent lamp, fluorescent lamp, gold halogen lamp : 3000W/220VAC
Relay Switch Life Times	100,000 times (resistance load)
Energy Measurement Accuracy	<±1%
Current Measurement Range	100mA ~ 10A

Frequency

Frequency Band	2.4~2.4835 GHz
Communication Channel	16 (ISM 11 th ~26 th channels)
TX Power	7dBm (maximum)
Receive Sensitivity	-101dBm
Antenna Type	Built-in metal antenna
Communication Distance	210meters (visible linear distance in open space)

Data Transfer Rate	250Kbps
Modulation Method	DSSS (O-QPSK)

Physical

Dimension	face plate 86×86×9 (mm) back plate 68×58×25 (mm)
Environment Humidity	5%~85%RH (No condensation)
Operating Temperature	-10°C~50°C
Storage Temperature	-40°C~85°C

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