

Panel Switch with Consumption Monitoring Z825A/B/C Data Sheet

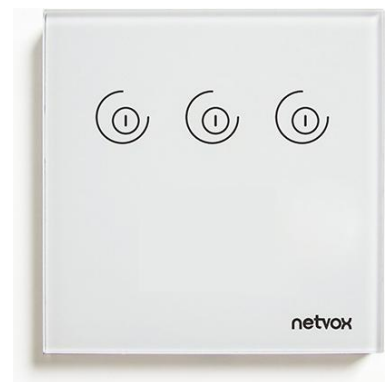
Wireless Sensor Network Based on LoRa Technology



Z825A



Z825B



Z825C

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Panel Switch with Consumption Monitoring

General Description

Z825A/B/C (wireless three-way touch switch with energy consumption monitoring) is a high-reliability indoor wireless intelligent switch control device. The hardware adopts the chip module conforming to 2.4G-Hz IEEE802.15.4 standard. The software adopts ZigBee Pro™ standard and follows ZigBee HA protocol that can communicate with routers and coordinators of the ZigBee network. The Z825A/B/C itself acts as a router, allowing other devices to join its network.

The Z825A/B/C has three 10A/250VAC on/off relays that can detect the voltage, total current, total power and other parameters of the controlled circuit.

Main Characteristic

- Compliant with 2.4GHz IEEE802.15.4/ZigBee Pro™ standard
- As a router, allow other devices to join its network
- Three-way 10A/250V AC power controllable output
- Controlled circuit voltage, total current, total power and other parameters can be measured
- With memory storage chip, can record the total energy consumption information of the controlled circuit
- Capacitive touch control

Example Applications

- Indoor Only
- Others

Panel Switch with Consumption Monitoring

Technical Specifications

Electric

mode	Z825A	Z825B	Z825C
Relay Output	1	2	3

Rated working power supply	100-240VAC, 50~60Hz
Rated Current	10A
Typical Work Power Consumption	0.5W (8mA@230V 50Hz)
Typical Load Characteristics	Resistive load: 16A/250VAC; P: 4000VA Inductive load: 8A/220VAC; P: 1760VA (COSφ=0.4) Motor load: 1.5HP/240VAC White Lamp, fluorescent lamp, gold halogen lamp: 3000W/220VAC
Relay Switch Life Times	100,000 times (Resistive load)
Power Measurement Accuracy Range	100mA~10A , 85~264VAC
Power Measurement Error Rate	<+-1%
Relay Switch Type	Magnetic Holding Relay

* Specific electrical characteristics may vary depending on the power supply voltage.



Panel Switch with Consumption Monitoring

Frequency

Frequency Bandwidth	2.4~2.4835 GHz
Communication Channel	16 channels (ISM 11th to 26th channel)
Power Output	7dBm (maximum)
Receive Sensitivity	-101dBm
Antenna Type	Built-in Antenna
Communication Distance	210 meters (depending on the specific environment)
Data Transfer Rate	250Kbps
Modulation Method	DSSS(O-QPSK)

Physical

Dimension	Front Side: 86×86×9 (Uni : mm) Back Side: 68×58×25 (Uni : mm)
Environment Temperature Range	-20°C ~ 50°C
Environment Humidity Range	<90% RH (No condensation)
Storage Temperature	-40°C ~ 85°C

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