

Nano Switch technical specifications.

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This page lists the technical specifications for **Nano Switch** (<http://aeotec.com/z-wave-outlet-socket>) and form part of the larger **Nano Switch user guide** (<https://aeotec.freshdesk.com/solution/articles/6000162385-nano-switch-user-guide->).

Name: Nano Switch

Model number: ZW116 (with energy reading) / ZW139 (no energy reading)

Product Dimensions: 42.5 x 40 x 20 mm

Package Dimensions: 73 x 73 x 30 mm

Product Weight: 30 g

Total Package Weight: 57 g

UPC/EAN (ZW116):

US: 810667023881

EU: 1220000015333

AU: 1220000015319

UPC/EAN (ZW139):

US: 810667023744

EU: 1220000015050

AU: 1220000015036

Power input: 120 to 240VAC, 50/60Hz.

Repeater: Yes

Beaming: Yes

AES 128 Security: Yes

Power Input:

| Version | Input/Output | Working Band |
|---------|---------------------|--------------|
| AU | 230V 50Hz, Max: 10A | 921.42MHz |
| BR | 220V 60Hz, Max: 10A | 921.42MHz |
| CN | 220V 50Hz, Max: 10A | 868.42MHz |
| EU | 230V 50Hz, Max: 10A | 868.42MHz |
| IL | 230V 50Hz, Max: 10A | 868.42MHz |
| IN | 230V 50Hz, Max: 10A | 865.22MHz |
| UK | 230V 50Hz, Max: 10A | 868.42MHz |
| US | 120V 60Hz, Max: 15A | 908.42MHz |

All versions are compatible to these voltage levels and max currents:

110/120VAC 50/60Hz (1 phase only)

Resistive Max: 15A

Inductive Max: 5A

Capacitive Max: 3.5A

220-240VAC 50/60Hz (1 phase only)

Resistive Max: 10A

Inductive Max: 5A

Capacitive Max: 3.5A

Max standby power: <0.8W.

Energy Measurement Input Voltage Required (ZW116 only):

90 - 240VAC required to power and allow energy reading.

Power measurement accuracy (ZW116 only): + or - 3W.

Varistor specifications:

DIP

07D471K

470VAC

30J \pm 10%

9 \times 12 \times 3.8 mm

Accepted Input for L:

90 - 240VAC @ 50/60Hz

24VDC

IN/OUT terminal isolation from L/N:

ZW116 (with metering): No.

ZW139 (without metering): Yes.

External Switch Voltage Requirements:

S1 and S2 inputs the voltage inputted between L and N terminals.

L and N inputted with 90 - 240VAC, then the external switch must also be powered by 90 - 240VAC to S1 or S2 connection.

L and N inputted with 24VDC, then the external switch must also be powered by 24VDC to S1 or S2 connection.

Environment of Installation:

Must be installed indoors

Should be located in a dry location

Should be installed in a fire resistant plastic gangbox.

Should not be installed in a metal gangbox for optimization of Z-Wave range.

Operating temperature:

0°C to 40°C

32 °F to 104 °F .

Relative humidity: 8% to 80%.

Operating distance:

Up to 492 feet outdoors.

Up to 150 metres outdoors.

Specifications subject to change without notice due to continuing product improvement.