Nano Dimmer technical specifications.

Modified on: Wed, 27 Jan, 2021 at 10:37 PM

This page lists the technical specifications for **Nano Dimmer** (http://aeotec.com/z-wave-light-dimmer-switch) and form part of the larger **Nano Dimmer user guide** (https://aeotec.freshdesk.com/solution/articles/6000162176-nano-dimmer-user-guide-).

Name: Nano Dimmer
Model number: ZW111
ZW111-A = US Frequency
ZW111-B = AU Frequency
ZW111-C = EU Frequency
Product Dimensions: 42.5 x 40 x 20 mm
Package Dimensions: 73 x 73 x30 mm
Product Weight: 27 g
Total Package Weight: 64 g
UPC / EAN:
US: 810667023447
EU: 1220000013971
AU: 1220000013964
Power input: 120 to 240VAC, 50/60Hz.
Rated Current Output: 1.2A maximum
Rated Power Output:
144W maximum (US)
276W maximum (EU/AU)
All Motor loads must be under 100W maximum for any region (3-wire power only).
Dimming Technology: PMW
Repeater: Yes
Beaming: Yes
External Switch max wiring length (between COM/S1 and COM/S2):
10 Meters
33 Feet
Minimum Power (Watt):
If your load is under the minimum requirement, you may need to **install Nano Dimmer Bypass Load.** (https://aeotec.freshdesk.com/support/solutions/articles/6000168292-how-to-wire-a-bypass-to-your-nano-dimmer-load-)

2-wire (no neutral)
Resistance load only: min 20W.

3-wire (with neutral)
Capacitive load: min 11W.
Inductive load: no min / max 100W
Resistance load: min 10W.
Max standby power: <0.8W.
Power measurement accuracy: + or - 3W.
Operating temperature:
0℃ to 40℃

32℉ to 104℉.

Relative humidity: 8% to 80%.

Operating distance:

Up to 492 feet outdoors.

Up to 150 metres outdoors.

Supported External Switches:

Toggle Switches (2-way, 3-way, 4-way)

Any standard Momentary Push Button (Cannot be used with LED powered momentary push buttons)

Supported Loads;

Control ability	Supported load types
With dimming function (On/Off/Dim control)	Incandescent bulbs, Halogen bulbs with or without electronic transformer, Dimmable LED bulbs (leading edge and trailing edge), Low Voltage VAC LED lighting, Dimmable Fluorescent lamps.
Without dimming function (On/Off control only)	Non-dimmable bulbs, Compact fluorescent lamps with electronic rectifier, Fluorescent tube lamps with electronic ballast, Non-dimmable LED Bulbs Direct Current LED Bulbs (VDC)

- Motor Loads under 100W **(only while Nano Dimmer connected as a 3-wire device)**

Device Certifications:

Z-Wave and Z-Wave Plus are registered trademarks of Sigma Designs and its subsidiaries in the United States and other countries

FCC ID: XBAFT111

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