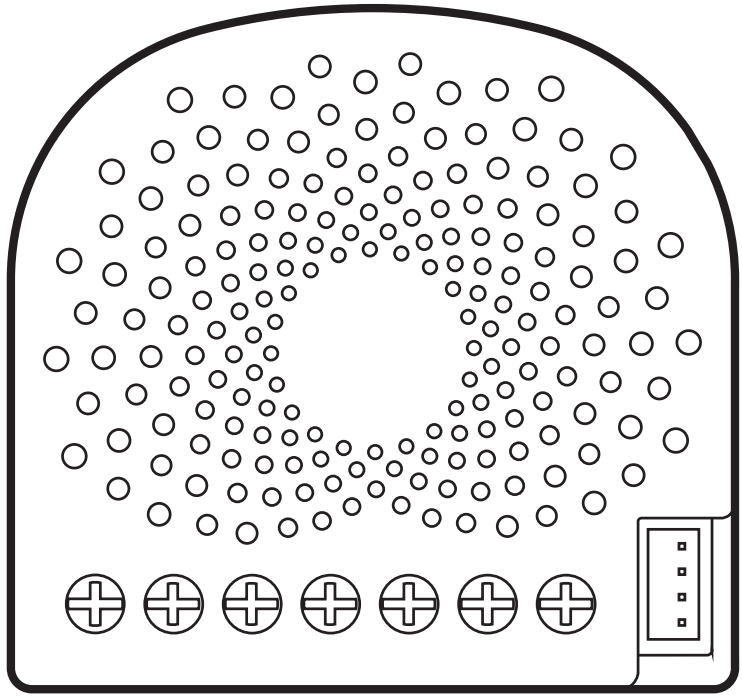
Nano Shutter

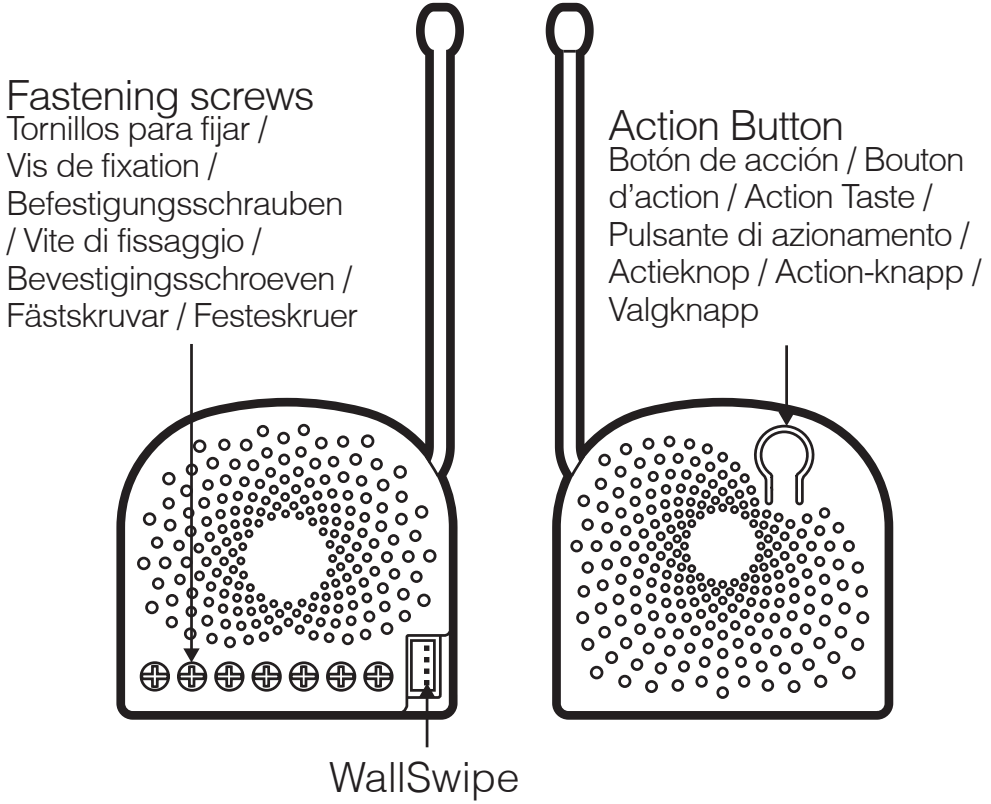
ZW141

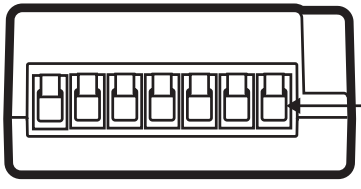


Aeotec

Used in this guide.

Artículos utilizados en este manual / Utilisé dans ce guide / In dieser Gebrauchsanweisung verwendete Bezeichnungen / Usato in questa guida / Gebruikt in deze handleiding / Används i den här handboken / Brukt i denne håndboken.





Wire connection port
Puerto de conexión de cables / Connexion des fils / Kabelanschlussleiste Porta di collegamento tramite cavo / Draadaansluitpoort / Anslutningsport ledningar / Ledningstilkoblings port

Warning: Risk of electrical shock. The main circuit breaker or fuse must be shut off during installation. Only a licensed electrician with knowledge and understanding of electrical systems and safety should complete the installation.

Important safety information.

Please read this and the guide(s) at support.aeotec.com/nanoshutter carefully. Failure to follow the recommendations set forth by Aeotec Limited may be dangerous or cause a violation of the law. The manufacturer, importer, distributor, and/or reseller will not be held responsible for any loss or damage resulting from not following any instructions in this guide or in other materials.

Only a licensed electrician with knowledge and understanding of electrical systems and safety should complete the installation.

The maximum amperage rating for Nano Shutter is 2.5A for each slot and 5A for both when connecting a motor load (COSφ=0.4, L/R=7ms).

Nano Shutter is intended for indoor use in dry locations only. Do not use in damp, moist, and / or wet locations.

Pre-installation checks.

Nano Shutter only works when installed with a neutral wire. If there no neutral wire is available, a professional electrician will be required to wire a neutral at the installation location.

It can connect to 2 external manual switches to control the curtain/shutter motor load up/down/stop independently. Its surface has a pin socket, which can be used for connecting to Aeotec WallSwipe, so you can also use WallSwipe to control Nano Shutter.

Quick start.

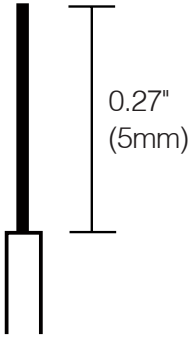
The following will step you through installing Nano Shutter and connecting it to your Z-Wave network.

1. Turn off electricity to switch at circuit breaker and ensure the wires are not short-circuited during the installation which will cause damage to the Nano Shutter.

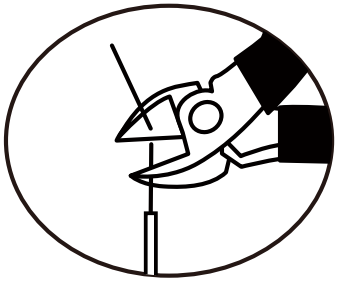
   Note: Your home's main circuit breaker must support the overload protection for safety.

2. Prepare connection wires.

- 14 AWG power wires for Input / Output.
- 18 AWG copper wires for external manual switch.
- Use the wire stripper cut the metallic part of the connection wire and make sure the length of the metallic part is about 5mm.



Measure exposed wire and determine length for 5mm

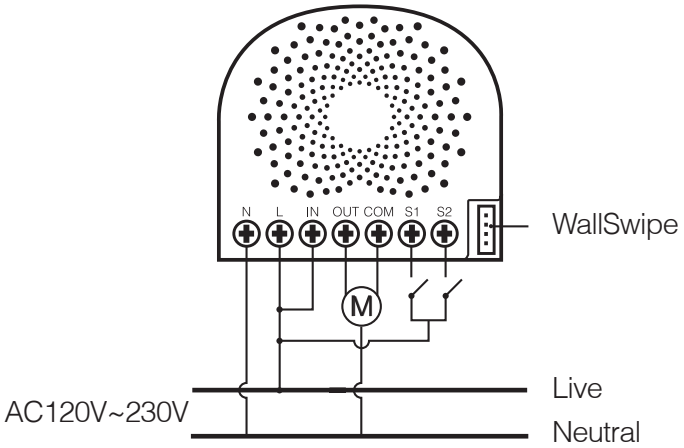


Cut exposed wire to 5mm length

Note: All connection wires need to be flexible cables.

When Nano Shutter uses 2-Way or momentary button switches as the external manual switch for a 2-Way connection, here are the different wiring diagrams based on the power inputs and the loads.

Wiring diagram of AC120V/230V power input.



Notes for the wire connection ports:

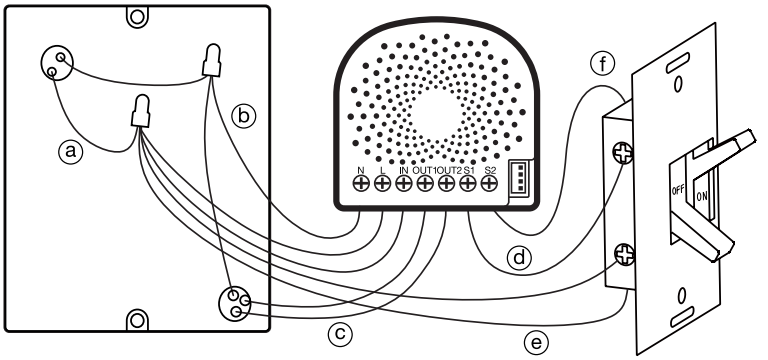
N – Power input for neutral
L – Power input for live
IN – Input for load power supply
OUT1 – Output for Motor direction 1
OUT2 – Output for Motor direction 2
S1 – External Switch/button 1 control for Motor
S2 – External Switch/button 2 control for Motor

3. Install Nano Shutter to the gang box.
   a. Live/Hot wire connection: Connect the Live/Hot wire to the “L” terminal on Nano Shutter.
   b. Neutral wire connection: Connect the Neutral wire to the “N” terminal on Nano Shutter.
   c. Load wire connection: Connect the 2 Load wires (Motor direction 1 and Motor direction 2) to the “OUT1” and “OUT2” on Nano Shutter.

d. Load wire connection: Connect the Neutral wire to the “Neutral” terminal on Motor.

e. External/manual Switch connection: Connect 2x18AWG wires to the “S1” and “S2” on Nano Shutter.

f. External/manual Switch connection: Connect 2x18AWG wires from the 2 terminals on the External/manual Switch to the Live wire.



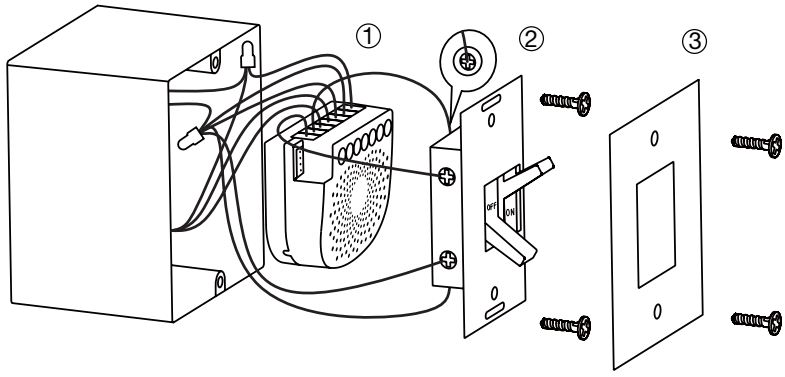
Note: This is the physical connection diagram with AC120V/230V power input.

4. Mounting the gang box.

   a. Organize all wires to provide room for the device.

   b. Place Nano Shutter inside of the gang box with the antenna towards the back of the box and away from all other wires.

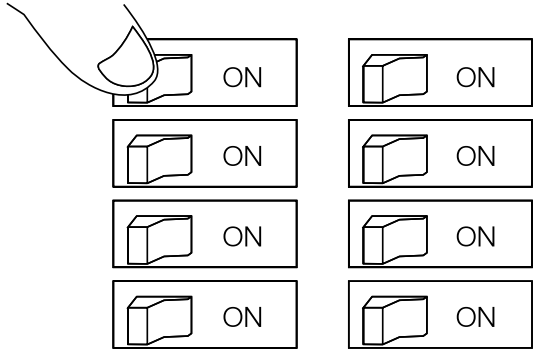
   c. Replace the cover to the gang box.



Note:

1) The gang box should be sized 3×2×2.75 inch / 75×50×70 mm or larger, minimum volume 14 in^3 / 230 cm^3.
2) Use flexible copper conductors only.

5. Turn on electricity to switch at circuit breaker or fuse.



6. Set your Z-Wave gateway into its 'add device' mode in order to connect Nano Shutter to your Z-Wave system. Refer to the gateway's manual if you are unsure of how to perform this step.

7. Press Action Button on Nano Shutter or toggle the external manual switch once, the green LED (pairing indication) will blink to indicate the Nano Shutter is entering into pairing mode.
8. When Nano Shutter successfully joins your Z-Wave network, its LED will show a solid color. Should LED turn red for 2 seconds and then alternate through a rainbow of colors, it fails to join your Z-Wave network; repeat steps 6 to 7 and please contact us for further support if needed.

Nano Shutter is now a part of your Z-Wave home control system. You can configure it and its automations via your Z-Wave system; please refer to your software's user guide for precise instructions.

Note: If your come across different wiring situations, please ask help from a professional electrician or from us.

Get help & learn more.

Should you encounter any problem with Nano Shutter, visit support.aeotec.com/nanoshutter or contact our support team via aeotec.com/contact. You can also learn more about Nano Shutter features, configuration options, and technical specifications at the link.

Gateway compatibility.

To see if this device is known to be compatible with your Z-Wave gateway, please refer to aeotec.com/z-wave-gateways

Español.

Información importante de seguridad.

Por favor lea cuidadosamente esta información y el manual en support.aeotec.com/nanoshutter. No cumplir las recomendaciones establecidas por Aeotec Limited puede ser peligroso o constituir una violación a la ley. El fabricante, importador, distribuidor y/o revendedor no será considerado responsable por ninguna pérdida o daño que resulte de no cumplir cualquiera de las instrucciones contenidas en este manual o en otros materiales.

Únicamente un electricista certificado con conocimientos y comprensión de los sistemas eléctricos y la seguridad deberá completar la instalación.

La capacidad máxima de amperaje para Nano Shutter es de 2,5 amperios para cada ranura y de 5 amperios para ambas ranuras. Nano Shutter está diseñado para su uso en espacios cerrados y secos No utilizar en locaciones con condiciones de humedad y/o en espacios mojados.

Pre-installation checks.

Nano Shutter only works when installed with a neutral wire. If there no neutral wire is available, a professional electrician will be required to