DOOYA DD510H Vibration Sensor Instructions

Contents

DOOYA®

DOOYA DD510H Vibration Sensor

Product Specifications

- Model: DD510H
- Version: A/03
- Features: Vibration sensor

Product Usage Instructions

Setting Up the Vibration Sensor

1. Ensure the dial switch is set to the desired mode (0, 5, or 9).
2. Press and hold the setting button while installing the battery to power on the sensor.
3. Observe the beep patterns to confirm the mode (once for bidirectional, twice for unidirectional).

Vibration Sensing Description (Unidirectional Mode)

Method One:

- Dial switch to 0, hold setting button.
- After each vibration, the sensor sends a wind command.

Method Two:

- Dial switch to 5, hold setting button.
- After each vibration, the sensor sends an uplink command.

Method Three:

- Dial switch to 9, hold setting button.
- After each vibration, the sensor sends a downlink command.

Vibration Sensing Description (Bidirectional Mode)

Method One (Factory Default):

- Dial switch to 0, hold setting button.
- After each vibration, the sensor sends a wind command.

Method Two:

- Dial switch to 5, hold setting button.
- After each vibration, the sensor sends an uplink command.

Method Three:

- Dial switch to 9, hold setting button.
- After each vibration, the sensor sends a downlink command.

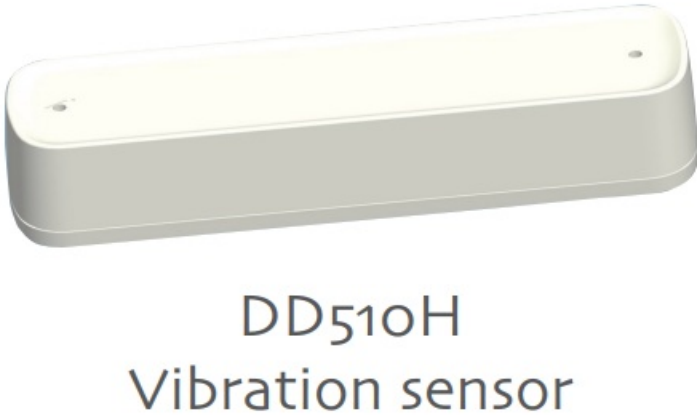
FAQ

Q: What is the factory default mode of the vibration sensor?
A: The factory default mode is bidirectional mode (beep once).

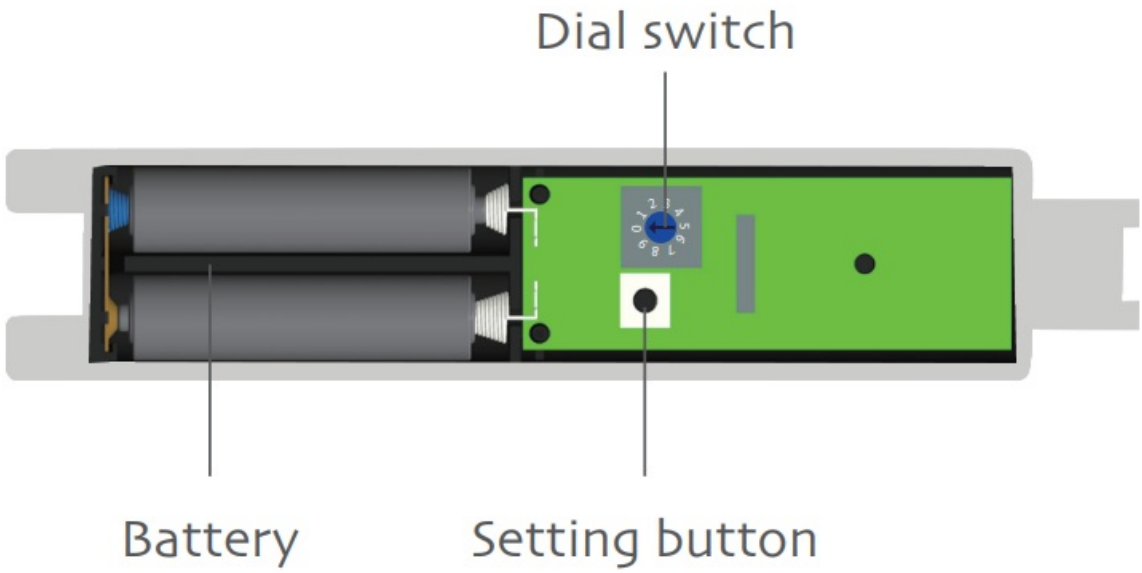
Q: How do I switch between unidirectional and bidirectional modes?
A: Dial the switch to the desired mode (0 for bidirectional, 5 dor 9 for unidirectional) and hold the setting button to activate.

Product Features

- Power supply voltage: DC 3V (AAA dry battery×2)
- Working temperature: -20℃ ~ 55℃
- Transmitting power: 10 milliwatt
- Radio frequency: Bidirectional 433MHz
- After the voltage is lower than 2.5V, the buzzer will beep once every 5 seconds and stop sending the heartbeat packet, reminding to replace the battery
- Magnet function: vibration and low voltage are invalid when there is no magnet

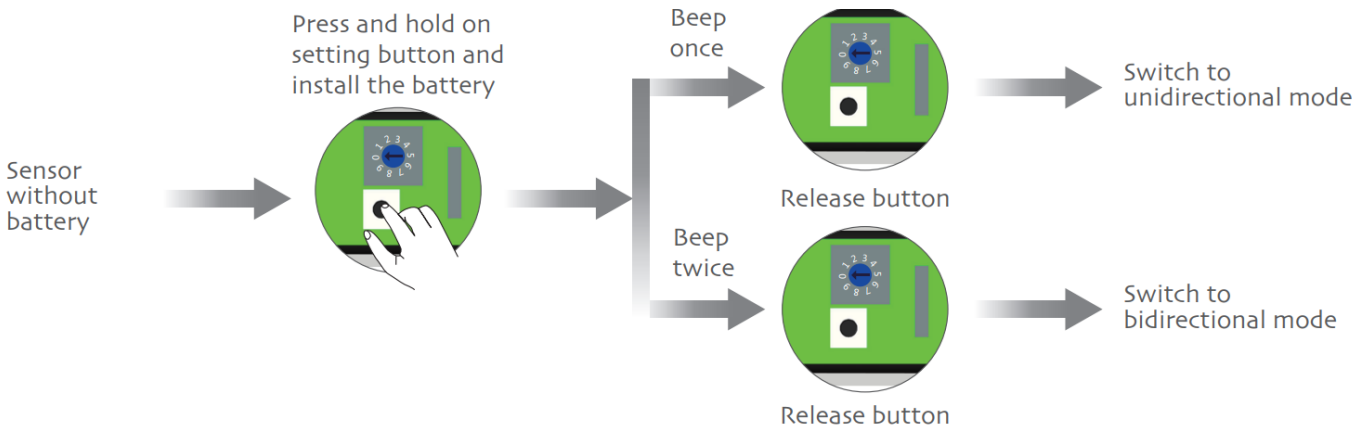


Instruction Of Buttons



Switch Mode

Note: The factory default mode is bidirectional mode.



The Function Of The Setting Button

- Dial switch is set to 0, and the setting button is the code setting button (P2)
- Dial switch is set to 5, and the setting button is the UP button
- Dial switch is set to 9, and the setting button is the DOWN button

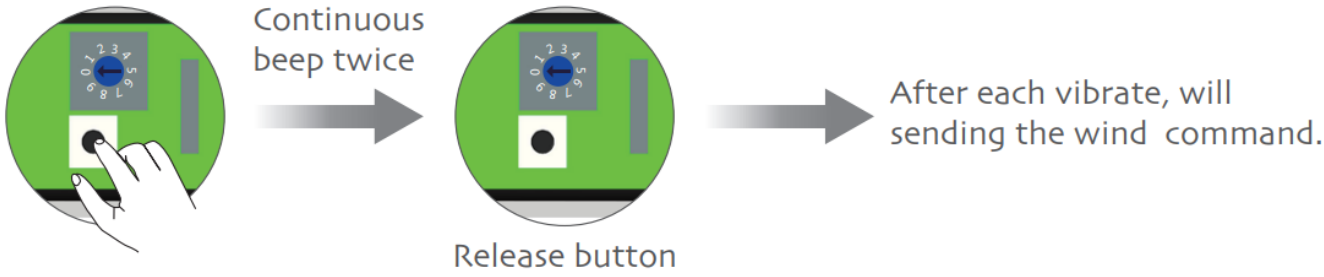
Vibration Sensing Description (Unidirectional Mode)

Method one

Note:

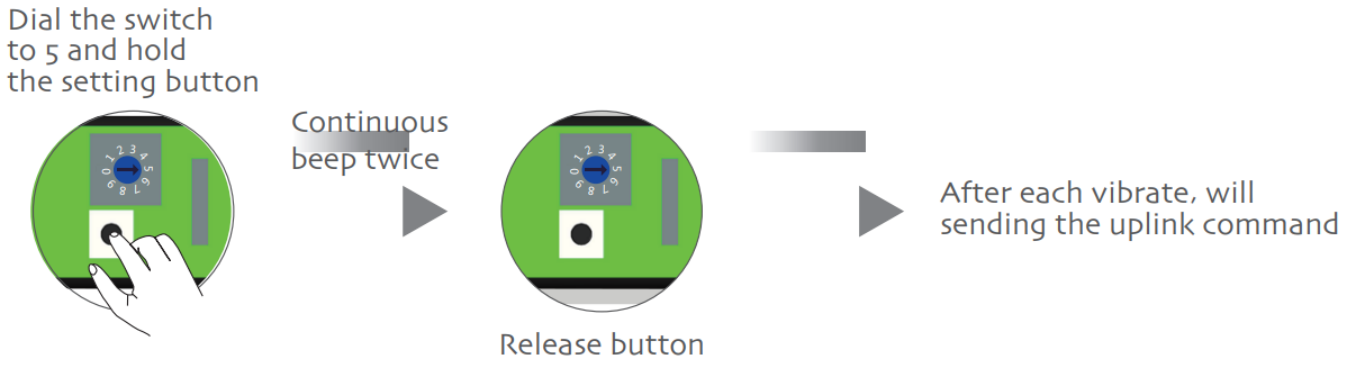
1. After pairing the motor with DD510H, when there is strong wind, the sensor will send the UP command to close the awning.
2. There is 9 grades of sensor sensitivity and the sensitivity gradually decrease from 1 to 9 grade. when it's 0 grade, there is no sensitivity.
3. The vibration sensor will send the UP command to the motor to close the awning once the vibration of the sensor reach the setting sensitivity grade, and within 30s, the sensor won't send UP command again if the vibration continued.
4. The unidirectional command is 6 bytes, and the last one is the check code CRC8.

Dial the switch to 0 and hold the setting button



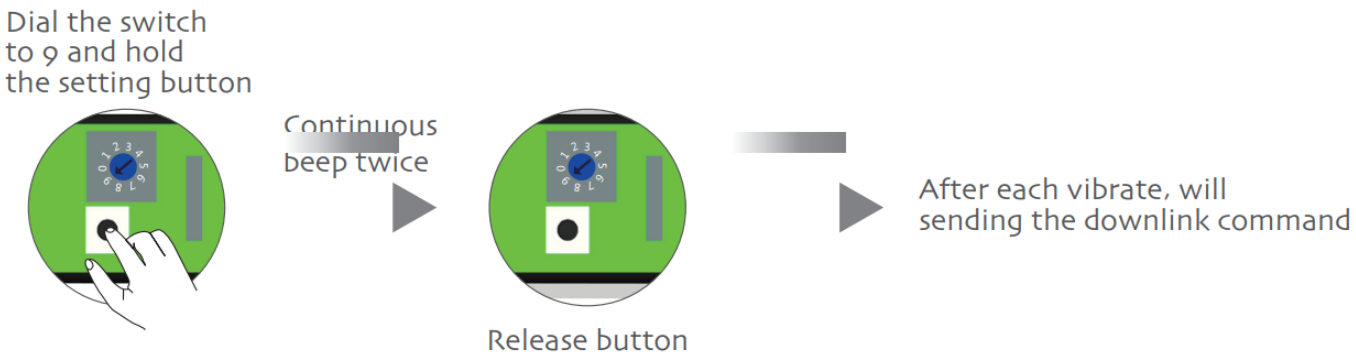
Method two

Note: If press the up button of the emitter, the awning is open, pls switch the direction of the motor.



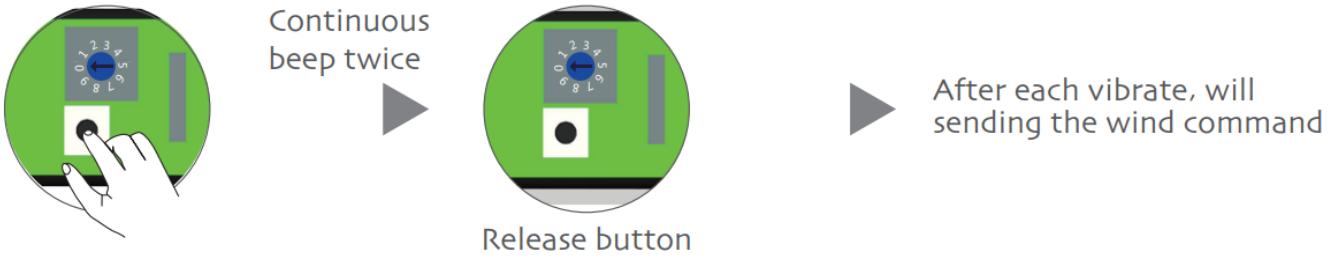
Method three

Note: If press the down button of the emitter, the awning is open, pls switch the direction of the motor.



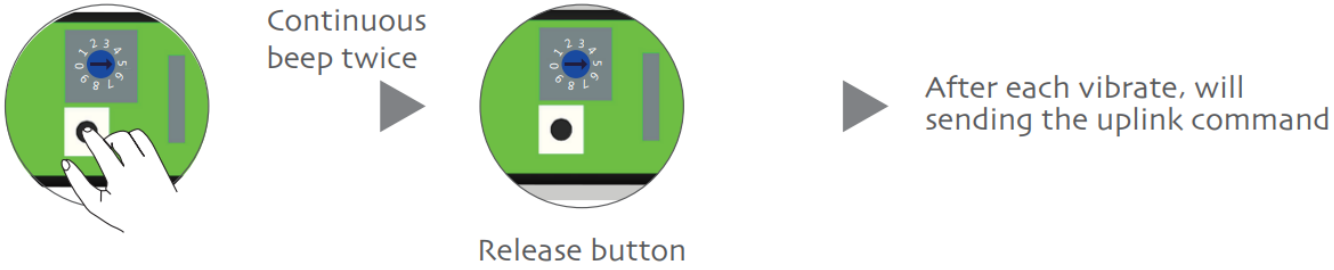
Vibration Sensing Description (Bidirectional Mode)

Method one (Factory default mode)
Note: 1,After pairing the motor with DD510H, when there is strong wind, the sensor will send the UP command to close the awning. 2,There is 9 grades of sensor sensitivity and the sensitivity gradually decrease from 1 to 9 grade. when it's 0 grade, there is no sensitivity. 3,The vibration sensor will send the UP command to the motor to close the awning once the vibration of the sensor reach the setting sensitivity grade, and within 30s, the sensor won't send UP command again if the vibration continued. 4,When the bit of the dial switch is not correct, the downlink command is set by default.



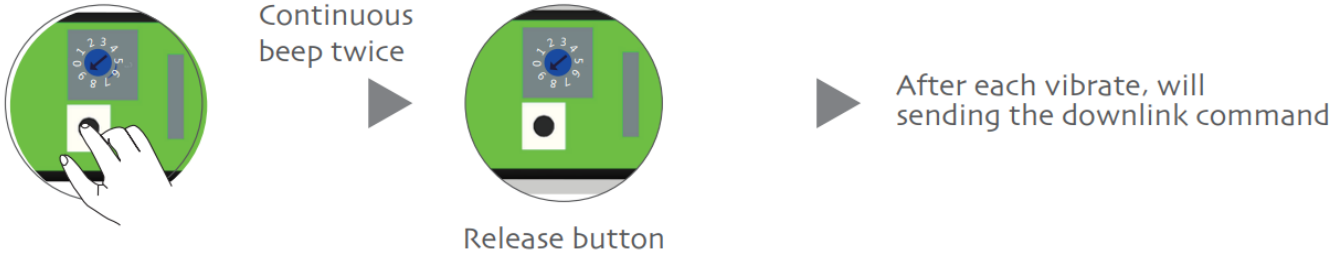
Method two
Note: If press the up button of the emitter, the awning is open, pls switch the direction of the motor.

Dial the switch to 5 and hold the setting button



Method three
Note: If press the down button of the emitter, the awning is open, pls switch the direction of the motor.

Dial the switch to 9 and hold the setting button



RF exposure statement

This equipment complies with the FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Warning
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

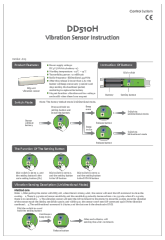
1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Note:This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Documents / Resources

	DOOYA DD510H Vibration Sensor [pdf] Instructions DD510H Vibration Sensor, DD510H, Vibration Sensor, Sensor

References

- User Manual