

User Manual for Motion Sensor Door Chime

Working Principle

Object with temperature over 0 °C will produce infrared radiation. Movement or other factors can result in temperature change; Infrared motion sensor can detect the change of infrared spectrum of human body and even big animals, which is caused by temperature change. When someone or animal enters the detecting area (4~5mX110°), motion sensor can detect the little change with a blue lights alert, then send signal immediately to receiver and receiver will play the ring tone you choose and LED lights on.

Applicable Places

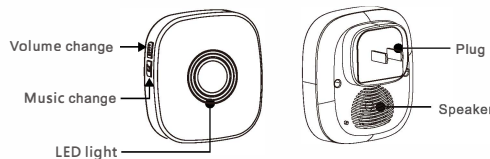
Shops, houses, offices, factories, hotels, hospitals etc..

Product Description

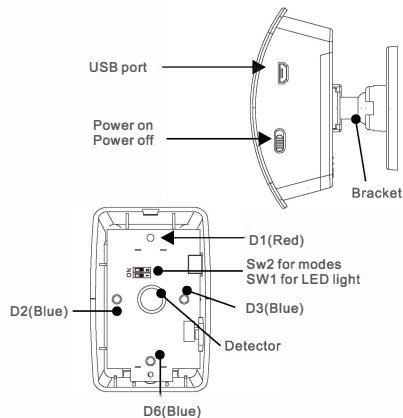
1. Learning code and expandable. More sensors and receivers can be easily added by users.
2. Simple power. Receiver is AC plug-in type; motion sensor can be powered by batteries (2xAAA batteries) or with a USB cable. (note: USB option does not charge the batteries)
3. Receiver has 58 high-quality ring tones, 5-level adjustable volume, and LED light. Motion sensor is with 1 red indicator for low power alert and 3 blue indicators for detecting alert. Details see Remarks below product structure diagram.
4. Two working modes:
 - a) Motion sensor makes detection every 5 seconds
 - b) Motion sensor makes detection every 10 seconds (default setting)
5. Easy installation and low power consumption.
6. 120m~150m receiving range in the open air without barriers; (4~5mX110°) detecting range

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Product structure diagram (Receiver)



Product structure diagram (Motion sensor)



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Remarks

- a) D1 is red light and stays on all the time if voltage is lower than 1.9V and higher than 1.6V. This red light indicates low battery power and batteries should be replaced soon.
- b) D2, D3, D6 are blue lights. These three LED lights turn on every time motion sensor is triggered when detecting objects.
- c) If voltage is lower than 1.6V - D2, D3, D6 LEDs light up with a dark blue color, red light will be off and blue lights get darker and darker if voltage further decreases. Please note that working range performance will be affected when voltage is lower than 1.6V, so change to fresh batteries for optimal performance.
- d) Choose sensing modes
Open the back cover of battery slot and then find the screw downside; use tool to unscrew it, then front cover can be opened and you can find the SW1 Sw2.
 - Switch "SW2" to the left (at the ON mark), it detects every 5 seconds.
 - Switch "SW2" to the right, it detects every 10 seconds. (Seconds of delay is normal reaction since temperature change is not in the range of detecting or the change is too slight to be detected.)
 - Switch "SW1" to the left (at the ON mark), three LEDs (D2, D3, D6) will light up when motion detection is triggered.
 - Switch "SW1" to the right, three LEDs (D2, D, D6) will NOT light up when motion detection is triggered.

How to Do Pairing and Change Tunes

1. Put in batteries and open power button, D1 will flash for a second then goes off; meanwhile, D2, D3, D6, will flash for seconds to make self-checking. Motion sensor has the same reaction if connecting with USB cable for receiving power.
2. Choose sensing mode and whether to close the blue lights by SW1 SW2

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3. Your doorbell has already paired out of the box. If you need to re-pair the receiver(s) with transmitter(s) or wants to change to a different tune, do the following steps as soon as possible since receiver will exit learning mode automatically if it doesn't get signal from transmitters in 5 seconds.

- a) Press the Music Change Button on the receiver to select desired tune.
 - b) Set receiver on learning mode by either method below. A chime and LED flashing will indicate the ready status.
 - i) Press the Volume and Music Change button on the receiver simultaneously.
 - ii) Or press the Volume change button on receiver for 5 seconds.
 - c) Pair transmitter with receiver by waving in front of the detector of motion sensor to trigger it. You will hear the tune that you selected.
 - d) To pair additional transmitters, repeat the steps above. In order to avoid interference, pair 1 transmitter only at any given time. You can pair up to 10 transmitters at most.
4. Reset
To reset all settings, press the music change button for 5 seconds, then pairing will be relieved and tune turns into the default music--Ding Dong. You can wave in front of the motion sensor to verify.

Installation Steps

1. Please first choose the ring tone you like and test whether the operation ranges you choose is proper. Prepare an electric drill or hammer, cross screwdriver before installation.
2. Installation of receiver: Just plug receiver into an outlet.
3. Installation of motion sensor: make hole on the wall with drill and fix the bracket of motion sensor with screws and anchors in the package, then assemble the other round part of the bracket, put on motion sensor and adjust the detect to make it aim at the area you choose.
4. Suggestion for installation in shops and houses: we suggest you to install the motion sensor on the inside roof of door. In this way, the detecting area is vertical behind the door. Glass door will isolate the detection, when someone come in shops or house, enter the vertical area, it begins detecting and send signal to let receiver know. Please note that the motion sensor is non-waterproof.

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Parameters of Motion Sensor

Working Voltage	DC 3V (2AAA batteries)
Working current	15Ma
Current in suspend mode	30 Ua
Detecting area	4~5Mx110°
Working range between receiver and sensor	120~150m in the open air
LED lights	4 (1 red LED for low power alert, 3 blue LED for detecting alert or extremely low power)
Voltage under USB line power supply	5V
Working frequency	433.92MHz
Working temperature	-15°C~60°C
Waterproof (Yes or no)	No

Parameters of Receiver

Input of receiver	AC 110V/ 220V 50Hz/60Hz
Optional melodies	58
Volume loudness	0-110 dB
Plug type	US,EU,UK,AU
Expandable (yes or no)	Yes
Work frequency	433.92MHz
Working temperature	-15°C~ +60°C

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FCC Caution:

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.