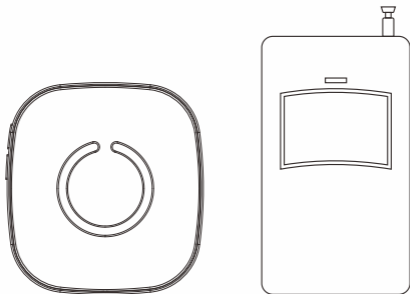




**SadoTech.com**

## **Wireless Motion Sensor Door Chime**



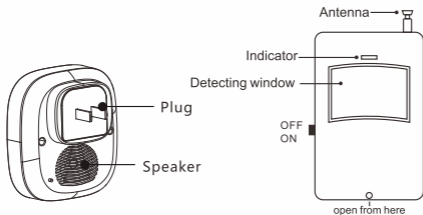
Thank you for purchasing SadoTech Wireless Doorbells.  
Please carefully read this user manual before usage and installation.

## Product Description

The SadoTech motion sensor door chime is the most user-friendly doorbells, with 8-digit code sticker on backside of receivers and transmitters. They are plug-and-play, stable-featured, but please note that only receivers and transmitters with same code can work together.

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 (30~36 feet X110°) motion sensor can detect the little change indicating with a red light, then send signal immediately to receiver and receiver will play the ring tone you choose and LED lights on as a visual reminder.

## Diagram



### Notes:

1. The motion sensor is wide-angle type.
2. Please fully extended antenna if you want longer detecting range.
3. There is optional restoration time ( 15s~20s or 30s~45s) between two triggers to prevent constant alerting and ringing and to save battery life.

## Operation instruction

### Receiver:

#### 1. Volume Selection

There are 4 level of volume for choosing. Find the volume control button on the left side of receiver. Press this button repeatedly to get the desired volume level.

#### 2. Music/Chime selection

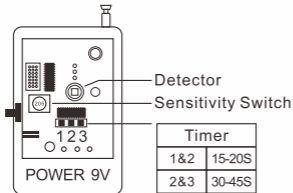
There are 52 different ring tones. Press music control button to change and cycle to the desired tone.

Note: Every time you plug off receiver or meet power cut, ring tone will recover to the Ding Dong tone (default).

### Motion Sensor:

#### 1. Adjusting the Motion Sensor Sensitivity

Please see Diagram 1

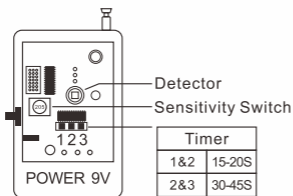


(Diagram 1)

- Detection sensitivity is adjustable by turning the white button.
- Turning the white button counter-clockwise INCREASES detection sensitivity
- Turning the white button clockwise DECREASES detection sensitivity

2.. To increasing or decrease the time delay in between alert triggers

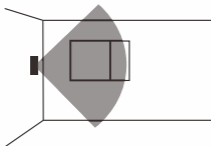
- To increase the delay in between alert triggers, place the small connector on pins 2 and 3 – this will set the trigger delay to approximately 15-20 seconds
- To decrease the delay in between alert triggers, place the small connector on pins 1 and 2 – this will set the trigger delay to approximately 30-45seconds



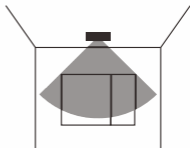
(Diagram 1)

## Installation

Motion sensor is for indoor application, not waterproof. Detection range, sensitivity, and false alarm are decided by the installation location. The two installations below are strongly recommended.



Wall-mounted installation



Ceiling-mounted installation

Notes: To avoid false alarms and maintain a normal working condition, keep the detector away from air-conditioner, electrical fan, window or other objects such as refrigerator, oven, etc. which may bring on the change of temperature. Do not install outdoors; mount on solid, stable surfaces of wall; prevent direct sunlight from reaching the detector.

#### Wall-mounted installation:

Fix the bracket of sensor to the wall with screws and mount the detector. The idea height recommended of about 2.1m. and keep the detector face downward with an included angle of  $6^{\circ}\sim 12^{\circ}$  against the wall.

#### Ceiling-mounted installation:

Fix the bracket on the inside roof of door. Detector aims at ground. In this way, the detecting area is vertical behind the door. Alert will be triggered immediately when someone just crossed the door of shops or house.

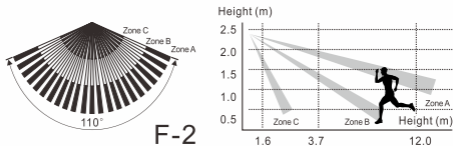
Detector is most sensitive to the cross motion, therefore the detection direction of detector and the protected passage (route way) should form a certain angle as shown in Figure 2.

## Notes

- (1). Sensitivity of heat detection is decided by the direction of the moving object. If the object is moving towards to the lens of the console, sensitivity of heat detection will be less accurate than moving cross the zone. Shown as F-1.



- (2). System should face potential cross passage of moving object.
- (3). Recommended height for installation is 2.0~2.2 meters to cover maximal detection area shown as F-2.



- (4). Console should keep away from air-conditioner, refrigerator, heater, gas burner, or some other heat radiation source, which will affect detection sensitivity and cause false alarm.
- (5). Console lens should not be blocked by blockades such as shield, plants or other furniture.
- (6). Console should avoid facing window directly, which outdoor air flow or other moving object will cause false alarm. Before arming the system, pull curtains or blind to cover the window for better performance.  
Console should avoid the location of high density RF, heat radiation, or strong air flow.

## Low Power Indication

When sensor is in low power status, the LED indicator turns off. It means the battery within the detector is weak and must be replaced. The detector will stop emitting signals.

## Parameters of Motion Sensor

Working Voltage	DC 9V (dry battery)
Working current	20 mA
Current in suspend mode	20 $\mu$ A
Detecting area	30~36 feet x110°
Working range between receiver and sensor	120~150m in the open air
Restoration time	15s~20 s or 30s~45s
Horizontal adjusted angle of bracket	90 °
Vertical adjusted angle	90 °
Temperature compensation	automatically
Working frequency	433 MHz $\pm$ 2MHz
Working temperature	-10°C~50°C
Anti-electromagnetism	>30v/m, 10MHz-100MHz
Anti-white-light:	>6500 Lux
Waterproof (Yes or no)	No

## Parameters of Receiver

Input of receiver	AC 110V(US) or 220V(EU)
Optional melodies	52 pcs
Volume loudness	4 level, 30-110 dB
Plug type	Any
Matching type	Fixed code
Work frequency	433 MHz $\pm$ 2MHz
Working temperature	-15°C~+60°C

## Common Problems and Resolutions

**(1)Problem:**Detection range is not what was expected.

**Resolution:** Detection range should be about 10~12 meters (30~36 feet) at an angle of 110 degrees. Depending on how the motion sensor is installed and positioned, this will have an effect on the sensor range area. Try adjusting the motion sensor until the desired outcome is achieved.

**(2)Problem:**Alerts do not go off when people walked through the sensor. Went off randomly when no one was around.

**Resolution:** be sure to place the motion detector in an area where there is not random movement. Determine from the customer if the motion detector is placed outside or inside the premises, there will be greater chance of false triggering if the motion sensor is placed outside due to small animals or random objects.

**(3)Problem:**Chime worked while installing. Has not worked since.

**Resolution:** This may be due to frequent triggering of the motion sensor, which can deplete the battery power life of the motion sensor. Try replacing the 9 volt battery.

**(4)Problem:**It does not always ring as required.

**Resolution:** There is a 30-45 second time delay in between motion triggers, this is to prevent constant alerting and ringing if a motion trigger occurs, this is to prevent constant alerting and ringing if a trigger occurs. The time delay in between triggers can be adjusted -follow instructions for adjusting the time delay.



**(5)Problem:**The product does not work properly. Randomly chimes for no reason and does not chime when it's supposed to.  
**Resolution:** Be sure to place the motion detector in an area where there is not random movement. Determine where the motion detector is placed outside or inside the premises. Note that there will be greater chance of false triggering if the motion sensor is placed outside due to small animals or random objects. In addition, there is a 30-45 second time delay in between motion triggers, this is to prevent constant alerting and ringing if a trigger occurs.

**(6)Problem:**Does not work. Tech support advised to return the item.  
**Resolution:** If after troubleshooting with customer support that it is determined the item does not work, then the item should be returned and processed as a return.

**(7)Problem:**Rings constantly.  
**Resolution:** Be sure to place the motion detector in an area where there is not random movement. Determine if the motion detector is placed outside or inside the premises, and be aware that there will be greater chance of false alert triggering if the motion sensor is placed outside due to small animals or random objects.

If you have additional issues, you are welcome to contact our service line or send us email to [support@sadotech.com](mailto:support@sadotech.com)



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