Glass Break Detector
User Manual
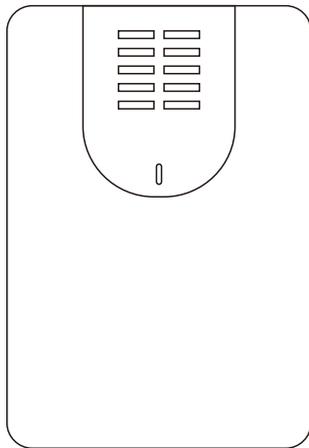
Glass Break Detector

The glass break detector detects the breaking of glass windows. The detector collects environmental sounds by high-accuracy microphone, then analyzes and judges the signal by microprocessor after filtering and magnifying the receiving anural signal, finally sends out the signal via peripheral output equipment. It is designed to eliminate common false alarms effectively. It's suitable for indoor applications such as banks, hotels, warehouses and homes etc.

Feature

Built-in microprocessor
Wall mounted or ceiling
High/low sensitivity for optional
Unique test mode
Lockable alarm mode
Anti-EMI and anti-RF interference
Tamper protection

Specifications

Voltage: DC 9~16V
Standby Current: ≤ 15 mA（DC 12V)
Alarm Current: ≤25 m
Detection Distance:10 meters
Test Time: ≤60s
Operating Temperature: - 10℃~ + 80℃（1 4℉ ～1 7 6℉ ）
Dimension: 60 .00mm x 88.00 mm x 21.00mm

General View
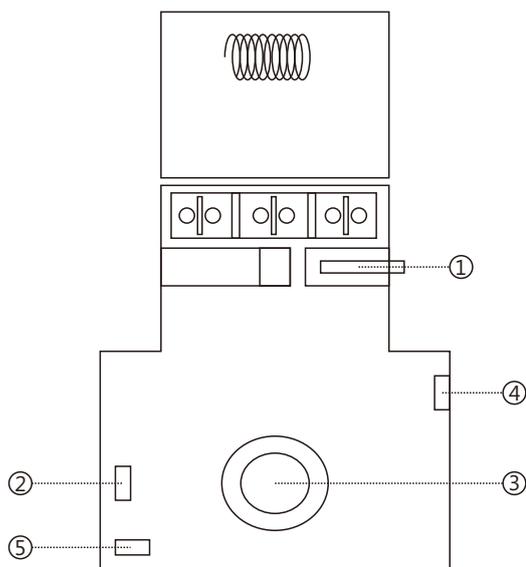
1.Temper Switch
2.Optional Sensitivity Jumper
3.Sensor
4.Lock/Unlock Jumper
5.Learning Jumper

Using Glass Break Detector
Enrolled to control panel

When the control panel is in enrolling state, simulate alarming of glass break detector by using a sharp object such as a key knock on the glass or trigger the tamper switch. The detector will send out the wireless signal to connect to the main panel. The glass break detector is set in 24-hour emergency zone in default.

Operation
Test Mode

Detector enters test mode after powered on. RED LED indicator flashes 12 times to enter the normal working mode.

Normal Mode

1. RED LED flashes intermittently, the glass break detector has detected a high frequency attack signal.
2. GREE LED flashes intermittently, the glass break detector analyzes the high frequency attack signal, indicating attack analysis has been successfully confirmed and part of the frequency spectrum is valid but detector has not generated an alarm.
3. You can choose the sensitivity of detector in the course of normal mode. (JP 2: IN =LOW < 5 m >, OUT =HIGH < 9 m >.)

Alarm Mode

Alarm output: The detector has two types of alarm output. (JP 1:IN =UNLOCK & OUT =LOCK)

Mode 1 (JP 1:IN =UNLOCK)
RED LED and GREEN LED are illuminated and at the same time relay is open for 4 seconds. Then RED LED and GREEN LED are extinguished and relay is closed simultaneity.

Mode 2 (OUT =LOCK)
RED LED and GREEN LED are illuminated and at the same time relay is open for 4 seconds. Then GREEN LED is extinguished and relay is closed simultaneity, and RED LED is still illuminated.Pull out JP1 jumper in the course of normal mode, RED LED is illuminated for 4 seconds then extinguished, the lockable alarm mode is chosen successfully. To cancel lockable alarm mode after detector generates an alarm, you can replace JP1 jumper and glass break detector will enter normal mode.

LED Indication

The detector is equipped with two LEDs: a red Event LED and a green Alarm LED. When the LEDs are enabled, they light in a variety of patterns to convey the detector's operational status.The following table summarizes the LED messages.

Working Status	Red LED	Green LED
Test Mode	Intermittent 12 times	Off
Work Mode, Event Detected	Flashes	Off
Work Mode, Alarm	Off	Flashes


```
c
nc
tamper
gnd
12v
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12V: Anode of DC power
GN D:Cathode of DC power
TAMPER:Anti-tamper switch output
NC/C:relay output
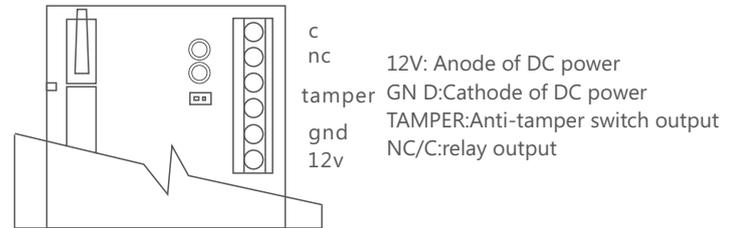
Installation and Detector Sensitivity Adjustment

The detector should be installed on the ceiling or walls adjacent or the places opposite the protected glass. Avoid sources of ambient vibration or sound, such as loudspeakers, air conditioners, fans, blowers or doorbells. Make sure there's unobstructed "view" between the glass and the detector. The detector has two sensitivity settings which are set using JP2 jumper. Insert the JP2 jumper to adjust the sensitivity to be low if the environment produces echos. Pull out JP2 jumper to adjust the sensitivity to be high if there's sound-proof material in the room.

How to install:

1. Open the cover & fix the base to the right place.
2. Buckle the PCB board to the base.
3. Close the cover properly.

Testing the Detector

Once the detector enters normal mode, set the sensitivity to be high. Adjust the distance between handset glass break test instrumentation and glass break break detector to 9m. The bell mouth of test instrumentation should be opposite the detector, then press and hold feeler switch to test. If GREEN LED is illuminated or RED LED and GREEN LED are illuminated simultaneity, which means the detector works normally. If no LED is illuminated, adjust the installation location of detector until the conditions above are satisfied.

Mounting Location