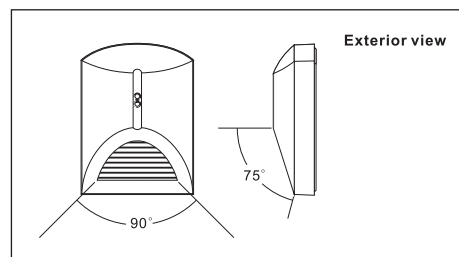
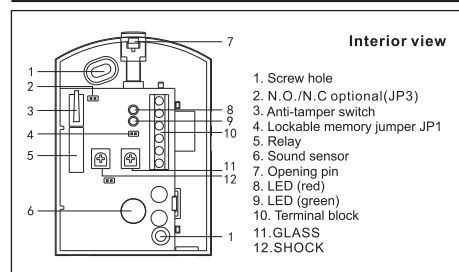


GLASS BREAK DETECTOR



Glass break detector is a device which responds for glass broken and alarms. This product collects environmental sounds by high-accuracy microphone, then analyzes and judges the signal by microprocessor after filtering and magnifying the receiving aural signal, finally sends out the final signal via peripheral output equipment, so that the product can avoid misinformation effectively. The product is suitable for banks, hotels, warehouses and homes etc.

GENERAL SKETCH



CHARACTERISTICS

- Build-in microprocessor
- Special apparent design
- Two-tone color display of LED
- Optional sensitivity
- Unique test mode
- Lockable alarm mode
- SMT technique of production
- Anti-EMI and anti-RFI interference
- N.C./N.O. optional for different alarm

TECHNICAL SPECIFICATIONS

Operating voltage	9~16V DC
Static current	≤25mA (12V DC)
Alarm current	≤30mA
Detection range	Optional sensitivity, High sensitivity: 9m
Test time	≤60s
Operating temperature	-10℃~+55℃
Relay output	N. C. / N. O. capability of contact point: 28VDC/80mA
Anti-tamper switch	Normal closed, capability of contact point: 28VDC/100mA
Size	92.0mm×67.0mm×26.4mm
weight	100g

OPERATIONS

1. Test mode

- (1) Glass break detector entries test mode as long as it is connected to 12VDC power, and it will entry normal mode after LED (red) flashes 30 times intermittently.
- (2) Sweep over the surface of detector by hand in the course of LED(red) intermittent flashing, LED(red) flashes fast, which means glass break detector has detected an aural signal.
- (3) Clap or knock close to the detector in the course of LED(red) intermittent flashing, and LED(green) will be illuminated, which means that glass break detector has detected a high frequency aural signal.
- (4) Pull out and replace JP1 jumper again in the course of LED(red) intermittent flashing, the detector will entry normal mode immediately.

2. Normal mode

- (1) LED(red) flashes intermittently, which means glass break detector has detected a high frequency attack signal.
- (2) LED(green) flashes intermittently, which means 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. GLASS: High frequency gain, SHOCK: Low frequency gain

3. Alarm mode (JP3: In=Normal closed, OUT=Normal open)

Alarm output : The detector has two types of alarm output. The first alarm output mode: JP1: IN=UNLOCK. The second alarm output mode: OUT=LOCK .

The first alarm output mode :

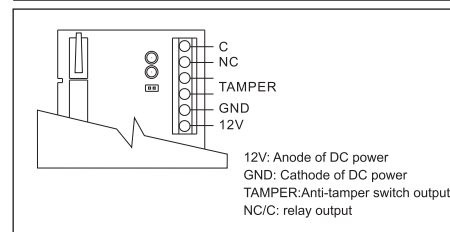
LED(red) and LED(green) are illuminated and at the same time relay is open for 4 seconds; then LED(red) and LED(green) are extinguished and relay is closed simultaneity.

The second alarm output mode:

LED(red) and LED(green) are illuminated and at the same time relay is open for 4 seconds; then LED(green) is extinguished and relay is closed simultaneity, and LED(red) is still illuminated.

4. Pull out JP1 jumper in the course of normal mode, LED(red) is illuminated, then extinguished immediately; LED(green) is illuminated for 4 seconds then extinguished, which means lockable alarm mode is choosed successfully.
5. To cancel lockable alarm mode after detector generates an alarm, you can only replace JP1 jumper and glass break detector will entry normal mode.

CONNECTION SKETCH



INSTALLATION AND SENSITIVITY SETTING

Look for installation locations on the ceiling or walls adjacent or opposite to the protected glass. Avoid proximity to noisy objects such as bells, fans, compressors and loud machinery and make sure that microphone of detector has a direct and unobstructed view of the protected glass.

You can set sensitivity of detector based on requirements. If the environment produces echoes, adjust sensitivity to low (replace JP2 jumper); if the environment has damping materials, adjust the sensitivity to high (pull out JP2 jumper) .

In order to reduce false alarm, please follow below steps to install and adjust:

1. Rotate SHOCK, GLASS in anticlockwise direction to the end;
2. Taking glass break tester, and standing in the farthest area of the protected window;
3. Put the tester loudspeaker hole to the detector, and then press testing button to make sound;
4. Watch the detector green LED whether flicks, otherwise rotate SHOCK in clockwise direction to strength its sensibility, until the green LED flicks.
5. Watch the detector whether alarms, otherwise rotate GLASS in clockwise direction to strength its sensibility, until the detector alarms steady.

If the detector still didn't alarm, you need install it to a nearer place.

INSTALLATION OF THE DETECTOR SKETCH

