



DS1109i Glass Breakage Detector



- ▶ Microprocessor-based SAT
- ▶ Automatic environmental test circuitry
- ▶ Built-in door or window contact

The DS1109i Detector uses microprocessor-based sound analysis technology (SAT) to listen for the specific frequencies associated with breaking glass. It can be used to detect breakage of plate, tempered, laminated and wired glass types. A built-in environmental test feature alerts the installer of false alarm hazards in harsh environments. It is specially designed to be mounted on door or window frames, too. A built-in magnetic contact allows monitoring of a door or window opening.

Functions

Signal Processing

Audio signals are analyzed using microprocessor-based SAT and must produce specific frequency, signature, and timing relationships to cause an alarm. The sophistication of this processing technique insures proper catch performance while eliminating false alarms.

Test Features

Push button operated test mode provides a location verification and operational test when using the optional DS1110i glass break tester. Test mode also includes an environmental test that alerts the installer to possible false alarm sources caused by ambient noise. Automatic sound check feature allows the end user to verify that

the detector is powered and functioning by clapping his hands. Externally visible alarm LED indicates an alarm or test condition and may be programmed to latch if desired.

Certifications and Approvals

UL Standard

UL639, Intrusion Detection Units

Installation/Configuration Notes

Mounting

Mount the DS1109i on the ceiling, or on the wall opposite or, adjacent to the window. Coverage depends on room acoustics and window size.

Standard Coverage

3 m (10 ft) for glass sizes over 30.5 cm x 30.5 cm (12 in. x 12 in.).

Technical Specifications

Enclosure Design

Dimensions: 3.2 cm x 9.5 cm x 2.3 cm (1.25 in. x 3.75 in. x 0.88 in.)

Material: High impact ABS plastic enclosure

Environmental Considerations

Operating Temperature: -29°C to +49°C (-20°F to +120°F)
For UL Certificated installations, 0°C to +49°C (+32°F to +120°F)

Radio Frequency Interference (RFI) Immunity: No alarm or setup on critical frequencies in the range from 26 MHz to 950 MHz at 50 V/m.

Outputs

Alarm: Normally-closed reed relay rated at 3.5 W, 125 mA at 28 VDC for resistive loads.

Tamper: Normally-closed cover activated tamper switch with separate terminals. Contacts rated at 28 VDC, 125 mA maximum

Power Requirements

Current: 21 mA nominal at 12 VDC

Voltage: 9 VDC to 15 VDC

Ordering Information

DS1109i Glass Breakage Detector	DS1109i
Mounts to door or window frames. Includes an internal magnetic contact.	

Hardware Accessories

DS1110i Series Glass Break Tester	DS1110i
Used to test DS1100i Series Glass Break Detectors. Powered by a 9 V Alkaline battery (supplied).	

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