



DS1109i Glassbreak 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 mount on door or window frames. 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

The push button operated test mode provides a location verification and operational test when using the optional DS1110i glassbreak 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 can be programmed to latch if desired.

Certifications and Approvals

Region	Certification	
Europe	CE	89/336/EEC, EN55022: 1998 +A1: 2000 +A2: 2003, EN50130-4: 1996 +A1: 1998 +A2: 2003, EN61000-4-2: 1995 +A1: 1998 +A2: 2001, EN61000-4-3: 2002 +A1: 2003, EN61000-4-4: 1995 +A1: 2000 +A2: 2001, EN61000-4-5: 1995 +A1: 2001, EN61000-4-6: 1996 +A1: 2001 +A2: 2001, EN61000-4-11: 1994 +A1: 2001, EN60950-1: 2001 +A11: 2004
USA	UL	ANSR: Intrusion Detection Units (UL639)

Installation/Configuration Notes

- Note** Glassbreak detectors are intended only as a component of a perimeter protection system. They should always be used in conjunction with motion sensors.

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**Electrical**

Current: 21 mA nominal at 12 VDC

Voltage: 9 VDC to 15 VDC

Mechanical

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

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

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

Environmental

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.

Ordering Information**DS1109i Glassbreak Detector****DS1109i**

Mounts to door or window frames. Includes an internal magnetic contact.

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