



DS1100i Series Glassbreak Detectors



- ▶ **Microprocessor-based SAT**
- ▶ **Automatic environmental test circuitry**
- ▶ **Sound check**
- ▶ **Multiple enclosure designs**

The DS1100i Detector Series uses microprocessor-based sound analysis technology (SAT) to listen for the specific frequencies associated with breaking glass. The DS1101i, DS1108i, DS1102i, and DS1103i can be used to detect breakage of plate, tempered, laminated and wired glass types. A built-in environmental test feature alerts the installer to false alarm hazards in harsh environments. Several cover designs are available.

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 magnet operated test mode provides a location verification and operational test when using the optional DS1110i glassbreak tester. The 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 DS1103i: 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 DS1101i, DS1102i, DS1108i: 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

Region	Certification
USA	UL DS1101i, DS1102i, DS1103i: ANSR: Intrusion Detection Units (UL639), ANSR7: Intrusion Detection Units Certified for Canada (cULus) DS1108i: ANSR: Intrusion Detection Units (UL639)
China	CCC DS1101i-CHI and DS1102i-CHI: 2005013901000139

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 DS1100i detector on the ceiling, or on the wall opposite or adjacent to the window. Coverage depends on room acoustics and window size.

Standard Coverage

7.6 m (25 ft) for glass sizes over 30.5 cm x 30.5 cm (12 in. x 12 in.).

Technical Specifications

Mechanical

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

DS1101i Glassbreak Detector Features a round enclosure.	DS1101i
DS1101i-FRA Glassbreak Detector Features a round enclosure. For use in France.	DS1101i-FRA
DS1102i Glassbreak Detector Features a square enclosure.	DS1102i
DS1103i Glassbreak Detector Features a rectangle flush mount enclosure.	DS1103i
DS1108i Glassbreak Detector Features a round enclosure.	DS1108i

Accessories

DS1110i Glassbreak Tester Used to test DS1101i, DS1102i, DS1103i, and DS1108i Glass Break Detectors. Powered by a 9 V alkaline battery (supplied).	DS1110i
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