

Glass Break Detectors

DS1100i Series Glass Breakage Detectors

DS1101i or DS1108i	Units in a round cover
DS1102i	Unit in a square cover
DS1103i	Flush mount application unit



The DS1100i Series are Glass Breakage Detectors which use microprocessor-based Sound Analysis Technology (SAT) to listen for the specific frequencies associated with breaking glass. They 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. Several cover designs are available.

■ Features

- Microprocessor-based Sound Analysis Technology (SAT)
- Automatic Environmental Test Circuitry
- Sound Check Feature
- Multiple Enclosure Designs
- UL Listed, CE

■ Basic Functions

Signal Processing

- Audio signals are analyzed using microprocessor-based Sound Analysis Technology (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

- Magnet 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 which 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.

■ Certification

UL Listing	BP1448
CE-EMC	89/336

■ Coverage

Standard Coverage

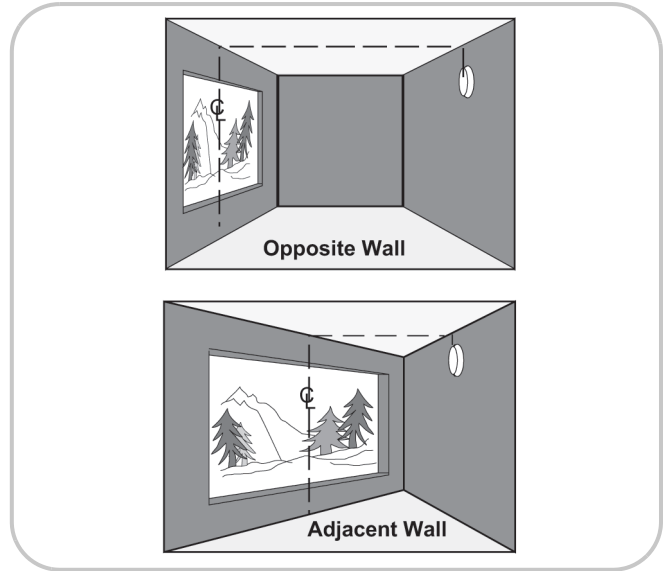
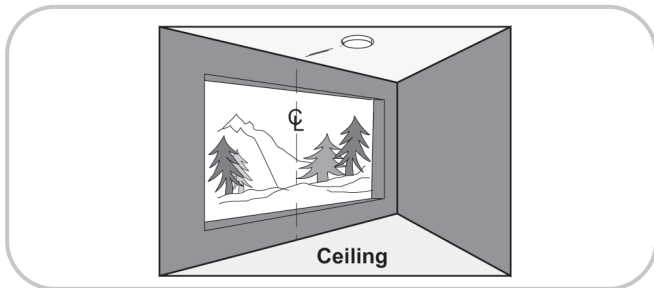
25 ft. (7.6 m) for glass sizes over 12 in. x 12 in. (30.5 cm x 30.5 cm).

■ Technical Specifications

Power Requirements for DS1101i and DS1102i	6 to 15 VDC, 23 mA @ 12 VDC
Power Requirements for DS1103i and DS1108i	9 to 15 VDC, 21 mA nominal @ 12 VDC
Alarm Output for DS1101i and DS1102i	Form "C" reed relay rated 3.5 watts, 125 mA @ 28 VDC for resistive loads.
Alarm Output for DS1103i and DS1108i	Normally Closed reed relay rated at 3.5 watts, 125 mA @ 28 VDC for resistive loads.

Tamper Output	Normally Closed cover activated tamper switch with separate terminals. Contacts rated at 28 VDC, 125 mA max.
Radio Frequency Interference (RFI) Immunity	No alarm or setup on critical frequencies in the range from 26 to 950 Megahertz at 50 v/m.
Storage & Operating Temperatures	-20°F to +120°F (-29°C to +49°C). For UL Certificated installations, +32°F to +120°F (0°C to +49°C).
Enclosure Design for DS1101i and DS1108i	ABS high impact plastic cover. Dimensions (DxH): 0.83 in. x 3.4 in. (2.1 cm x 8.6 cm)
Enclosure Design for DS1102i	ABS high impact plastic cover. Dimensions (HxWxD): 3.4 in. x 3.4 in. x 0.83 in (8.6 cm x 8.6 cm x 2.1 cm).
Enclosure Design for DS1103i	ABS high impact plastic cover. Dimensions (HxWxD): 4.8 in. x 3.25 in. x 0.5 in. (12 cm x 8.3 cm x 1.3 cm). Flush Mounted (HxWxD): 4.8 in. x 3.25 in. x 0.25 in. (12 cm x 8.3 x 0.625 cm).
Standard Mounting	Designed to be mounted on the ceiling, opposite wall, or adjacent wall. Coverage is dependent on room acoustics and window size.

■ Mounting Options



■ Optional Accessories

