

DS1100i Glass Breakage Detector Series

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 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
- Multiple enclosure designs

■ 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 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

Approval 

■ Planning

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

Environmental Considerations

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

Mounting

Location: Designed to be mounted on the ceiling, opposite wall, or adjacent wall. Coverage is dependent on room acoustics and window size.

Radio Frequency Interference (RFI) Immunity

No alarm or setup on critical frequencies in the range from 26 to 950 Megahertz at 50 v/m.

Tamper Output

Normally Closed cover activated tamper switch with separate terminals. Contacts rated at 28 VDC, 125 mA max.

Hardware Options

DS1110i Series Glass Break Tester



Used to test DS1100 Series detectors. For DS1101i, DS1102i, DS1103i, DS1108i, DS1109i.

DS1101i Ceiling or Wall mount Detector in Round Enclosure

Prod. ID DS1101i



DS1108i Ceiling or Wall Mount Detector in Round Enclosure

Prod. ID DS1108i



■ Technical Specifications

Alarm Output	Form "C" reed relay rated 3.5 watts, 125 mA @ 28 VDC for resistive loads.
Enclosure Design	
Material:	High impact ABS plastic enclosure
Dimensions (H x D):	0.83 in. x 3.4 in. (2.1 cm x 8.6 cm)
Power Requirements	6 to 15 VDC, 23 mA @ 12 VDC

■ Technical Specifications

Alarm Output	Normally Closed reed relay rated at 3.5 watts, 125 mA @ 28 VDC for resistive loads.
Enclosure Design	
Material:	High impact ABS plastic enclosure
Dimensions (H x D):	0.83 in. x 3.4 in. (2.1 cm x 8.6 cm)
Power Requirements	9 to 15 VDC, 21 mA nominal @ 12 VDC

DS1102i Ceiling or Wall Mount Detector in Square Enclosure

Prod. ID

DS1102i



DS1103i Flush Mount Glass Break Detector

Prod. ID

DS1103i



■ Technical Specifications

Alarm Output	Form "C" reed relay rated 3.5 watts, 125 mA @ 28 VDC for resistive loads.
Enclosure Design	
Material:	High impact ABS plastic enclosure
Dimensions (HxWxD):	3.4 in. x 3.4 in. x 0.83 in. (8.6 cm x 8.6 cm x 2.1 cm).
Power Requirements	6 to 15 VDC, 23 mA @ 12 VDC

■ Technical Specifications

Alarm Output	Normally Closed reed relay rated at 3.5 watts, 125 mA @ 28 VDC for resistive loads.
Enclosure Design	
Material:	High impact ABS plastic enclosure
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 cm x 0.625 cm)
Power Requirements	9 to 15 VDC, 21 mA nominal @ 12 VDC

