

DS1109i Glass Breakage Detector with Magnetic Contact

Prod. ID DS1109i



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.

■ Features

- Microprocessor-based Sound Analysis Technology (SAT)
- Automatic environmental test circuitry
- Built-in door/window contact

■ 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

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

■ Planning

Standard Coverage

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

■ Technical Specifications

Alarm Output	Normally Closed reed relay rated at 3.5 watts, 125 mA @ 28 VDC for resistive loads.
Enclosure Design	
Dimensions (H x W x D):	1.25 in. x 3.75 in. x 0.88 in. (3.2 cm x 9.5 cm x 2.3 cm)
Material:	High impact ABS plastic enclosure
Environmental Considerations	
Operating Temperature:	-20°F to +120°F (-29°C to +49°C) <i>For UL Certified installations, +32°F to +120°F (0°C to +49°C)</i>
Mounting	
Location:	Designed to be mounted on the ceiling, opposite wall, or adjacent wall. Coverage is dependent on room acoustics and window size.
Power Requirements	9 to 15 VDC, 21 mA nominal @ 12 VDC
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.