DS1108i Glassbreak Detector

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Invented for life

- Microprocessor-based sound analysis technology (SAT)
- Automatic environmental test circuitry
- Sound check

The DS1108i Detector uses microprocessor-based sound analysis technology (SAT) to listen for the specific frequencies associated with breaking glass. The DS1108i 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. The round enclosure mounts on ceilings or walls.

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 ensures 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. The automatic sound check feature allows the end user to verify that the detector is powered and functioning by clapping hands. An 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	2004/108/EC EMC Directive (EMC); 2006/95/EC Low-Voltage Directive (LVD); 2011/65/EU Restriction of the use of certain hazardous substances in electrical and electronic equip-ment(RoHS)
USA	UL	DS1108i: ANSR: Intrusion Detection Units (UL639)

Installation/configuration notes

Notice
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 DS1108i 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.).

Parts included

Quant.	Component
1	Detector
1	Literature – Installation Guide

Technical specifications

Electrical

Current:	21 mA nominal at 12 VDC
Voltage:	9 VDC to 15 VDC

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.

Mechanical

Dimensions (HxDiameter):	2.1 cm x 8.6 cm (0.83 in. x 3.4 in.)
Material:	High-impact ABS plastic enclosure

Outputs

Alarm:	Normally-closed (NC) reed relay rated at 3.5 W, 125 mA at 28 VDC for resistive loads
Tamper:	Normally-closed (NC) cover-activated tamper switch with separate terminals. Contacts rated at 28 VDC, 125 mA maximum.

Ordering information

DS1108i Glassbreak Detector
Round detector uses microprocessor-based sound analysis technology (SAT) to listen for the specific frequencies associated with breaking glass.
Order number **DS1108i**

Accessories

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

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