

DS1109i Glassbreak Detector

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- ▶ Microprocessor-based SAT
- ▶ Automatic environmental test circuitry
- ▶ Built-in door or window contact

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 mount on door or window frames. A built-in magnetic contact allows monitoring of a door or window opening.

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 push button operated test mode provides a location verification and operational test when using the optional DS1110i glassbreak 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 can be programmed to latch if desired.

Certifications and approvals

| Region | Certification |
|--------|---------------|
| Europe | CE DS1101i |

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 DS1109i on the ceiling, or on the wall opposite or, adjacent to the window. Coverage depends on room acoustics and window size.

Standard Coverage

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

Technical specifications

Electrical

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

Mechanical

| | |
|----------------|-----------------------------------------------------------------------------------------------------------------|
| Dimensions: | 3.2 cm x 9.5 cm x 2.3 cm (1.25 in. x 3.75 in. x 0.88 in.) |
| Material: | High impact ABS plastic enclosure |
| Alarm Output: | Normally-closed reed relay rated at 3.5 W, 125 mA at 28 VDC for resistive loads. |
| 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) |
| 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

DS1109i Glassbreak Detector

Mounts to door or window frames. Includes an internal magnetic contact.

Order number **DS1109i**

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**

Represented by:

North America:
Bosch Security Systems, Inc.
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone: +1 800 289 0096
Fax: +1 585 223 9180
security.sales@us.bosch.com
www.boschsecurity.us

Europe, Middle East, Africa:
Bosch Security Systems B.V.
P.O. Box 80002
5617 BA Eindhoven, The Netherlands
Phone: + 31 40 2577 284
Fax: +31 40 2577 330
emea.securitysystems@bosch.com
www.boschsecurity.com

Asia-Pacific:
Robert Bosch (SEA) Pte Ltd, Security Systems
11 Bishan Street 21
Singapore 573943
Phone: +65 6571 2808
Fax: +65 6571 2699
apr.securitysystems@bosch.com
www.boschsecurity.asia

China:
Bosch (Shanghai) Security Systems Ltd.
203 Building, No. 333 Fuquan Road
North IBP
Changning District, Shanghai
200335 China
Phone +86 21 22181111
Fax: +86 21 22182398
www.boschsecurity.com.cn

Latin America and Caribbean:
Robert Bosch Ltda Security Systems Division
Via Anhanguera, Km 98
CEP 13065-900
Campinas, Sao Paulo, Brazil
Phone: +55 19 2103 2860
Fax: +55 19 2103 2862
latam.boschsecurity@bosch.com
www.boschsecurity.com