

**BOSCH**

Invented for life

DS1100i Series Glass Breakage Detectors



- ▶ Microprocessor-based SAT
- ▶ Automatic environmental test circuitry
- ▶ Sound check
- ▶ Multiple enclosure designs

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.

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	CE

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

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

Installation/Configuration Notes

Mounting

Mount the DS1100i 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.).

Technical Specifications

Power Requirements

Tamper Output: Normally-closed cover activated tamper switch with separate terminals. Contacts rated at 28 VDC, 125 mA maximum.

Environmental Considerations

Operating Temperature: -29°C to +49°C (-20°F to +120°F)
For UL Certified 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.

Ordering Information

DS1101i Glass Break Detector Features a round enclosure.	DS1101i
DS1101i-FRA Glass Break Detector Features a round enclosure. For use in France.	DS1101i-FRA
DS1108i Glass Break Detector Features a round enclosure.	DS1108i
DS1102i Glass Break Detector Features a square enclosure.	DS1102i
DS1103i Glass Break Detector Features a rectangle flush mount enclosure.	DS1103i

Accessories

DS1110i Series Glass Break Tester Used to test DS1100i Series Glass Break Detectors. Powered by a 9 V Alkaline battery (supplied).	DS1110i
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Europe, Middle East, Africa:
 Bosch Security Systems B.V.
 P.O. Box 80002
 5600 JB Eindhoven, The Netherlands
 Phone: +31 40 2577 284
 Fax: +31 40 2577 330
 emea.securitysystems@bosch.com
 www.boschsecurity.com

Americas:
 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

Asia-Pacific:
 Bosch Security Systems Pte Ltd
 38C Jalan Pemimpin
 Singapore 577180
 Phone: +65 6319 3450
 Fax: +65 6319 3499
 apr.securitysystems@bosch.com
 www.boschsecurity.com

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