BOSCH
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DS1101i Series Glassbreak Detectors

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

The DS1100i Detector Series uses microprocessor-based sound analysis technology (SAT) to listen for the specific frequencies associated with breaking glass. The DS1101i, DS1101i-BEL, DS1101i-CHI, and DS1101i-FRA 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 detectors mount on the ceiling 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 his 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	89/336/EEC, EN55022: 1998 +A1: 2000 +A2: 2003, EN50130-4: 1996 +A1: 1998 +A2: 2003, EN61000-4-2: 1995 +A1: 1998 +A2: 2001, EN61000-4-3: 2002 +A1: 2003, EN61000-4-4: 1995 +A1: 2000 +A2: 2001, EN61000-4-5: 1995 +A1: 2001, EN61000-4-6: 1996 +A1: 2001 +A2: 2001, EN61000-4-11: 1994 +A1: 2001, EN60950-1: 2001 +A11: 2004
USA	UL	ANSR: Intrusion Detection Units (UL639), ANSR7: Intrusion Detection Units Certified for Canada (ULC-S306)
China	CCC	DS1101i-CHI: 2009031901000553

Installation/Configuration Notes

Note   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 DS1101i series detectors 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.).

Ordering Information

DS1101i Glassbreak Detector	**DS1101i**
DS1101i-BEL Glassbreak Detector for Belgium	**DS1101i-BEL**
DS1101i-CHI Glassbreak Detector for China	**DS1101i-CHI**
Accessories	
DS1110i Glassbreak Tester Used to test DS1101i, DS1102i, DS1103i, and DS1108i Glass Break Detectors. Powered by a 9 V alkaline battery (supplied).	**DS1110i**

Parts Included

Quant.	Component
1	Detector
1	Hardware pack
1	Literature – Installation Guide

Technical Specifications

Electrical

Current:	23 mA at 12 VDC
Voltage:	6 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:	Form C reed relay rated 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.