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# DS1103i Flush-mount Glassbreak Detector



The DS1103i Detector uses microprocessor-based sound analysis technology (SAT) to listen for the specific frequencies associated with breaking glass. The DS1103i 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 rectangular enclosure mounts flush 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 magne- 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

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

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)

## 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 DS1103i 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	Mounting Bracket and 2 screws
1	Literature – Installation Instructions

**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) <i>For UL Certificated installations, 0°C to +49°C (+32°F to +120°F)</i>
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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.
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**Mechanical**

Material:	High-impact ABS plastic enclosure
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**Dimensions**

Unmounted (HxWxD):	12 cm x 8.3 cm x 1.3 cm (4.8 in. x 3.25 in. x 0.5 in.)
Flush-mounted (HxWxD):	12 cm x 8.3 cm x 0.625 cm (4.8 in. x 3.25 in. x 0.25 in.)

**Outputs**

Alarm:	Normally-closed (NC) reed relay rated at 3.5 W, 125 mA at 28 VDC for resistive loads
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**Ordering Information**

<b>DS1103i Flush-mount Glassbreak Detector</b>	<b>DS1103i</b>
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Rectangular detector uses microprocessor-based sound analysis technology (SAT) to listen for the specific frequencies associated with breaking glass

**Accessories**

<b>DS1110i Glassbreak Tester</b>	<b>DS1110i</b>
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Used to test DS1101i, DS1102i, DS1103i, and DS1108i Glass Break Detectors. Powered by a 9 V alkaline battery (supplied).

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