BOSCH

DS1102i Series Glassbreak Detectors

▶ Microprocessor-based sound analysis technology (SAT)

▶ Automatic environmental test circuitry

▶ Sound check

The DS1102i Detector Series uses microprocessor-based sound analysis technology (SAT) to listen for the specific frequencies associated with breaking glass. The DS1102i and DS1102i-CHI 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 square detectors mount on ceilings or walls.

System overview

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.

Regulatory information

Region	Regulatory compliance/quality marks	
Europe	CE	[DS1101i]
USA	UL	ANSR: Intrusion Detection Units (UL639), ANSR7: Intrusion Detection Units Certified for Canada (ULC-S306) DS1102i
Canada	ULC	
China	CSP	CSP2024031901000001

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 DS1102i 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.).

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:	8.6 cm x 8.6 cm x 2.1 cm
	(3.4 in. 3.4 in. x 0.83 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.

Ordering information

DS1102I Glassbreak detector, square
Square detector uses microprocessor-based sound analysis technology (SAT) to listen for the specific frequencies associated with breaking glass.
Order number **DS1102I | 4.998.800.267 F.01U.413.581**

DS1102I-CHI Glassbreak detector, square
Square detector uses microprocessor-based sound analysis technology (SAT) to listen for the specific frequencies associated with breaking glass.
Order number **DS1102I-CHI | F.01U.003.599 F.01U.381.797 F.01U.413.584**

Accessories
DS1110I Glassbreak tester
Used to test DS1101i, DS1102i, DS1103i, and DS1108i Glass Break Detectors.
Order number **DS1110I | 4.998.800.270 F.01U.381.951**

Services
EWE-DETCTR-IW 12 mths wrty ext detector general
12 months warranty extension
Order number **EWE-DETCTR-IW**