

GLASS GUARD

GLASS BREAK DETECTOR



The Glass Guard is a very small wireless glass shatter detector designed to secure glass surfaces with a detection distance of up to 9 meters, multi-frequency signal analysis and two NC inputs for connecting external devices.



Data Encryption with AES Algorithm with Floating Code

The SAFEKeeper encrypted communication protocol ensures maximum protection of the security system.



Radio Signal Range up to 1600 m

Stable and efficient communication with a range of up to 1600 metres in open space.



Bidirectional Information Transfer between Devices

Uninterrupted interaction between the central unit and devices using AES128 encryption.



Glass Break Detection up to 9 m

The highly sensitive audio microphone accurately identifies specific low and high frequency sounds that are typical for glass breaking.



2x Input for Connecting a Wired External NC Detector

These inputs provide easy integration of other safety features, including third-party devices.



Smart Bracket for Quick and Easy Installation

Easily mount to the surface using double-sided tape or screws and mounting hardware.



Firmware Update via Cloud Services

Adding new features, enhancing software security and expanding the security system capabilities.



Add a Device to the System by Scanning a QR Code

Adding a detector is simple with the ProSAFE app. Just scan the device's unique QR code and configure the required functions.



Up to 3 Years of Battery Life

Powered by a replaceable battery that ensures continuous operation for up to 3 years.



Protection Against Radio Signal Interference

If signal interference is detected, the user is alerted, and the device automatically switches to a clear frequency band.



Integrated Temperature Sensor

The sensor includes a temperature feature with adjustable high and low limits that triggers an alarm and displays the current temperature when those limits are exceeded.



Tamper Protection Against Sabotage and Unauthorized Handling of the Device

Protects devices from sabotage or any unauthorized handling.

Technical Specifications - Glass Guard

Model Identification

SAFE 38120	White EAN code - 0728204234754
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Interface

Indication	1× green LED
Button	1× power button

Function

Sabotage Contact	Yes (tamper)
Remote Update	Yes (Cloud)
Temperature Sensor	Yes
Search	Signal strength detection
Test Mode	Yes
Low Battery Alarm	Yes

Wireless Transmission

Carrier Frequency	868.0 MHz – 868.6 MHz
Transmitter Power (EIRP)	Limit 25 mW
Communication Type	Bidirectional
Communication Distance	Up to 1,600 m (5249.34 ft) in open space
Encryption Mode	AES128
Frequency Hopping	Yes (automatic)

Temperature Parameters

Measuring Range	-15 °C to +65 °C (+18.8 °F to +149 °F) (indoors)
Measurement Accuracy	±1 °C (± 33.8 °F)
Resolution	1 °C (33.8 °F)

Detection Parameters

Detection Type	Acoustic
Sensor	Highly sensitive omnidirectional microphone
Detection Range	Max. 9 m (29.53 ft)

Inputs/Outputs

Alarm input	2× NC/NO dry contact (adjustable)
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Reliable Protection of Glazed Surfaces

Glass Guard is a high-end wireless detector that continuously monitors ambient sounds and reliably detects the breakage of many types of glass - from classic to tempered, wire, double glazed, toughened and laminated. With a detection range of up to 9 metres, it is an ideal solution for securing larger areas with extensive glass surfaces. Equipped with a highly sensitive audio microphone, the device precisely identifies the specific low- and high- frequency sound signatures associated with glass breaking. Its advanced signal processing effectively filters out background noise, significantly reducing the risk of false alarms.

Two-Stage Glass Break Detection Technology

Glass Guard is equipped with a highly sensitive, omnidirectional microphone designed to reliably detect acoustic signals using a two-step verification process. First, it identifies the characteristic low-frequency sound produced when glass is struck. Then, it listens for the high-frequency sound generated by the actual breaking and shattering of glass. An alarm is triggered when both types of signals are detected simultaneously. This advanced two-stage detection technology ensures exceptional reliability and greatly reduces false alarms—for example, when someone merely taps on a glass door or window.

Enables System Extensibility

Glass Guard is equipped with two inputs that allow the connection of external wired detectors. These inputs provide seamless integration of additional security components, including third-party devices. Each input can be freely configured in ProSAFE as NO (normally open), NC (normally closed) or Pulse. A wide range of devices can be connected—for example, combustible gas detectors, armored garage door contacts, flood detectors, PIR motion sensors, and more. This feature significantly enhances the system flexibility and expands the modular capabilities of the SAFE alarm system.



Technical Specifications - Glass Guard

General

Power Supply	1× CR123A battery
Power Consumption	Max. 150 mW
Current Consumption	≤45 µA (operation) ≤50 mA (alarm)
Battery Life	3 years (ext. input NO) 1 year (ext. NC input, both inputs enabled)
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F) (indoors)
Operating Humidity	10 % to 90 % (RH)
Product Dimensions	107.8 mm × 34.5 mm × 24.8 mm (4.24" × 1.36" × 0.98") (L × W × H)
Package Dimensions	94 mm × 43 mm × 141 mm (3.7" × 1.69" × 5.55") (L × W × H)
Weight (net)	45 g (0.10 lb)
Weight (gross)	138 g (0.30 lb)
Installation	Bracket mount
Housing Material	PC + ABS
Compatibility	Hub 2 Plus LTE SAFE 38300
Compliance	CE Security Grade 2 Environmental Class II
Warranty	36 months

Easy Assembly and Comfortable Adjustment

The glass break detector should be placed in a room where there are glass surfaces, such as windows or glass doors. It is important that it is properly oriented and has a clear view of the protected glass surfaces. Glass Guard is equipped with a Tamper function that protects the device against sabotage or unauthorized manipulation. Adding the detector to the system is extremely simple thanks to the ProSAFE application - just scan the unique QR code of the device and then set the required functions. Within moments, everything is ready and your device can start working reliably.

SAFEKeeper Wireless Communication

SAFE Keeper is a radio protocol designed for the SAFE wireless security system. It operates at a frequency of 868.0-868.6 MHz and provides an interference-free communication range of over 2,000 m in open areas. Protected by AES128 encryption and a bi-directional communication mechanism, it ensures enhanced security for the transmitted data. In case of radio signal interference, the user is notified and the device automatically switches to a clear frequency band. The device is reliably protected against software-level threats. SAFE Keeper delivers the maximum and effective protection of the wireless security system.

