

DOOR GUARD PLUS

MAGNETIC DETECTOR OF OPENING, SHOCKS AND TILT



A wireless, universal magnetic opening, shock and tilt detector SAFE for reliable protection of windows and doors of all types and designs. Enhanced with an accelerometer, it supports a wider range of applications. The device consists of two modules - a detector and a magnet.



Data Encryption with AES Algorithm with Floating Code

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



Radio Signal Distance up to 1200 m

Stable and efficient communication at a range of up to 1200 m in open space.



Bidirectional Information Transfer between Devices

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



Detection Distance < 4 cm

The device operates via a magnetic field—when the magnet moves away from the detector, the reed switch is triggered.



Input for Connecting a Wired External NC Detector

Integration of other security features, including third-party devices.



Tilt and Position Change Detection

The device detects changes in vertical tilt angle as well as any manipulation of the magnetic contact.



Firmware Update via Cloud Services

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



Security Level 2 According to EN 50131

This represents the highest level of protection for wireless components of the alarm and emergency system (PZTS) as standard.



Up to 5 Years of Battery Life

Powered by a replaceable battery that ensures continuous operation for up to 5 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.



Vibration and Impact Detection

Detects vibrations or impacts that may indicate an attempt to force or tamper with the magnetic contact.



Tamper Protection Against Sabotage and Unauthorized Handling of the Device

Protects devices from sabotage or any unauthorized handling.

Technical Specifications - Door Guard Plus

Model Identification

SAFE 38110	White EAN kód - 0728204234747
SAFE 38111	Black EAN kód - 0728204235027

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 1,200 m (3937.01 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	Magnetic, change of position
Sensor	Tri-axial accelerometer, reed contact
Detection Range	<40 mm (1.57")
Shock Detection	Adjustable, 3 levels
Tilt Detection	Up to 25°

Inputs/Outputs

Alarm Input	1 × NC/NO dry contact (adjustable)
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Small but Powerful

Door Guard Plus is a sophisticated security device composed of two main parts: a detector with an integrated, highly reliable reed relay capable of withstanding up to 2 million opening cycles, and a strong permanent magnet. The detector is installed on the movable part of a window or door, while the magnet is fixed to the stationary frame. The device operates using a magnetic field - when the magnet moves away from the detector, the reed switch is triggered. In addition to the reed switch, the detector also includes a three-axis accelerometer to detect vibrations and changes in angle.

Smart Security

This advanced detector features an integrated accelerometer that can detect changes in vertical tilt angle, impacts or vibrations. As a result, it not only reliably protects windows left open for ventilation but can also detect vibrations or shocks that may signal an attempted break-in or tampering with a magnetic contact. Door Guard Plus also supports a wider range of applications. In addition to monitoring the opened or closed status of doors and windows, it can also track the movement or position changes of other objects such as paintings, safes or other valuables. When the sensor is triggered, an alarm signal is immediately sent to the central SAFE alarm system unit, which promptly notifies the user of potential danger.

Supports System Extensibility

The Door Guard Plus includes an NC input on the back for connecting an external wired detector. This allows easy integration of additional security features, including devices from third party manufacturers. These may include flammable or explosive gas detectors, armored contacts for garage doors, a flood detectors, wired magnetic contacts, or other normally closed circuit sensors. This feature significantly enhances the flexibility and modularity of the entire SAFE alarm system.



Technical Specifications - Door Guard Plus

General

Power Supply	1× CR123A battery
Power Consumption	Max. 125 mW
Current Consumption	≤12 µA (operation) / ≤2.3 mA (alarm)
Battery Life	When activated twice a day with a battery efficiency of 70%: 4 years (ext. NO input) 2 years (ext. NC or pulse input)
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F) (indoors)
Operating Humidity	10 % to 90 % (RH)
Product Dimensions	100.2 mm × 20.8 mm × 20.3 mm (3.94" × 0.82" × 0.80")
Package Dimensions	137.0 mm × 98.0 mm × 28.0 mm (5.39" × 3.86" × 1.10")
Weight (net)	70 g (0.15 lb)
Weight (gross)	128.8 g (0.28 lb)
Installation	Bracket mount
Housing Material	PC + ABS
Compatibility	Hub 2 Plus LTE SAFE 38300
Compliance	CE EN 50131-1:2006+A1:2009+A2:2017+A3:2020 EN 50131-6:2017 EN 50131-5-3:2017 EN 50131-2-6:2008 Security Grade 2 Environmental Class II
Warranty	36 months

Easy Installation and User-friendly Setup

Both parts of the wireless door opener can be quickly and easily attached to the surface using the special double-sided adhesive tape (included) or, if level 2 security is required, both parts can be fixed using the screws and mounting material provided. The detector also features a tamper function to protect the device from sabotage or unauthorized handling. Adding the detector to the system is extremely simple with the ProSAFE app - just scan the device's unique QR code and then set the desired functions. Within moments, everything is ready, and your device begins operating 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.

