

GSN PATROL 501

DIGITAL ACOUSTIC GLASS BREAK DETECTOR

THE LEADER OF NEW TECHNOLOGIES OF FLAWLESS PROTECTION
OF ALL KNOWN GLASS TYPES

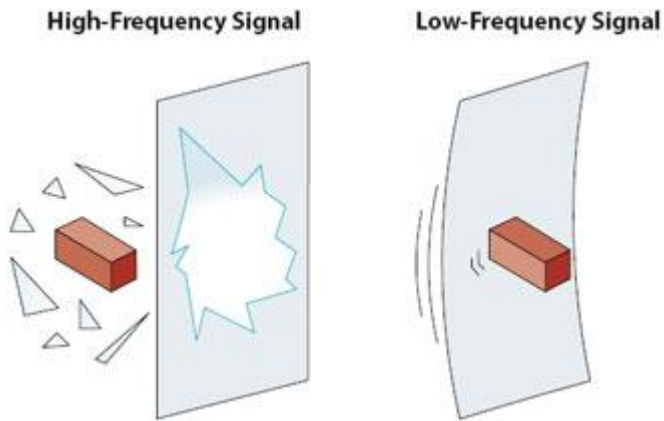
FEATURES



- Highly selective sensitivity
- Dual-channel detection of the break (impact) / sound signals sequence
- Digital mathematical algorithm of signal processing
- Extraordinary immunity to false alarms
- Stable operation in harsh environments
- Ideal protection from RF and EM interferences
- Automatic microphone overload protection
- Last event memory time: 30min
- Protects all glass types
- Elegantly designed to blend into any decor

ALGORITHM

Unique algorithm is based on recognition of sequence of low-frequency and high-frequency signals of framed pane glass breakage.



Low-frequency signal is emitted upon the impact of glass. High-frequency signal occurs upon the glass breakage.

For creating an alarm, both a low-frequency sound of the glass impact and a high-frequency glass breakage sound must be registered within a predetermined time frame.

Since both detector channels must register the actual glass breakage, false alarms are practically excluded.

The program of microcontroller, based on the mathematical algorithm, analyzes signals and detects only the actual breakage of all standard framed glass types.

RELIABILITY

Due to the unique program and perfectly adjusted filters the **PATROL-501** provides excellent protection from false alarms in extremely harsh environments. Highly selective sensitivity of the high frequency channel enables the **PATROL-501** to detect real glass breakage with high accuracy among a variety of background noises.

The above features enable the **PATROL-501** to be used in extremely harsh environments, such as airports, industrial plants as well as in the vicinity of noisy restaurants, bars, etc. High RFI and EMI immunity allows the detector to be mounted next to radio and electromagnetic emission sources.

TECHNICAL SPECIFICATIONS

Power input:	9 - 16VDC;
Current consumption:	
In stand-by mode:	17.8mA;
In alarm mode with LED on:	18.7mA;
Alarm period:	3sec;
Warm up period:	2sec;
Detection range:	12m x 170°;

Relay output:	NC; 60V; 120mA; 16Ω;
Opening protection:	TAMPER SWITCH;
Microphone type:	Omnidirectional Electret Microphone;
Operating temperature range:	-30°C +50°C;
Storage temperature range:	-40°C +80°C;
RFI immunity:	30V/m at a frequency range 10MHz - 1000MHz;
EMI immunity:	50000V;
Dimensions:	87mm x 52mm x 24mm;
Weight:	58gr.