

FG-1025Z Glassbreak Detector



Features

Only listens for sounds coming from Glass

Using 2 microphones and Time-Of-Arrival (TOA) processing, the detector listens only for the sound of breaking glass arriving from the protected area and ignores sounds arriving from elsewhere in the room.

- Superior False Alarm Immunity Digital Signal Processing (DSP) uses an on board Microcontroller with over 1.000 lines of software code to instantly digitise sounds into mathematic sequences, distinguishing common false alarms from breaking glass.
- Field Proven Glassbreak Protection

As the world's most popular glassbreak detectors, IntelliSense products are field-proven around the globe to accurately detect breaking glass.

- Installer Friendly Installations Designed with the installer in mind, the detector features a centred wire entry hole, 45° terminal blocks, ample wiring room, EOL terminals, dip switches and optional mounting spacers.
- Ceiling Mount Detector Mounts on the ceiling with a maximum range of 7.6 m to the glass.
- Fast and Accurate Testing Place the detector in test mode remotely from the floor using the FG-701 hand-held glassbreak simulator.

Easily Verify Detector Operation at Any Time A simple clap of the hands will blink the green LED verifying the detector is awake and processing incoming sounds. Both the red and the green LED's will flash if at anytime the continuous self-test discovers a detector failure.





System features	 Time-of-Arrival Two microphones, 180° opposed, enable the unit to hear glass breaking and determine if it came from the perimeter glass it is protecting. False alarm sounds originating from the room are eliminated. This innovative technology dramatically increases accuracy, reliability and false alarm immunity. Digital Signal Processing (DSP) Microcontroller based technology instantaneously converts sound vibrations into mathematical sequences to accurately identify the signal pattern of breaking glass. DSP Advantage With DSP, the FG-1025Z performs extensive analysis on signal variables including: flex/audio thresholds; ratios and durations; time coincidence; attack thresholds; and microphone overloads. 	 Indicator LED's Denoted detection of sound even and alarm condition. Dip Switches To enable or disable event LED ar alarm memory LED. Installer Friendly Terminal Block Angle-entry for ease of installation positions for End-of-Line Resistor Enclosed PC Board No handling of the PCB (Printed C Board). Built-in Self Testing Automatically performs continual tests. The unit will signal if any test fails. Remote Test Mode Enable and Disable Can be tested remotely with the FG-701 Tester. 	Test Mode Time Out Automatically resets from test mode in 10 minutes. Easy Installation and Set-up Simply mount within 7.6 m of the glass to be protected. No sensitivity adjustment required. and Radio Frequency Immunity (RFI) s. 30 V/m, 10 - 1.000 MHz Power Up and Continuous Self Test ircuit If any test fails, the unit will signal trouble by alternately flashing the indicator LED's. self- Accessories t FG-701 : Glassbreak Simulator FG-SP2 : Spacer Plate
Specifications Glass Type Thickness	Physical Dimensions White high impact ABS plastic housing. 108 x 22.4 mm (Ø x d) Weight: 128 g Range 7.6 m Maximum. Mounting location Ceiling. Alarm Relay Form C (NO/NC) \ 125 mA @ 25 VDC. Alarm Duration 5 seconds (unaffected by alarm LED latching). Minimum size for all glass types is 28 cm framed in the wall of the room or mounted width. Type Min. Thickness Plate 2.4 mm Tempered 3.2 mm Laminated* 3.2 mm Wired 6.4 mm Coated** 3.2 mm	Tamper Switch Combination cover and wall tamp MA @ 24 VDC. Power Requirements 8 ~ 14 VDC. 25 mA @ 12 VDC. AC ripple: 4 Volts peak to peak at Nominal 12 VDC. Operating Temperature 0°C ~ 49°C. ESD Immunity 10 kV; discharges of either polarity exposed surfaces. x 28 cm square. Glass must be d in a barrier of 0.9 m minimum Max. Thickness 6.4 mm	Command Input/Remote LED Enable Active low (0 ~ 1.5 V). High impedance for inputs less than 5.6 V. Draws less than 1 mA for inputs up to 16 V. Trouble input Open collector, active high: 1K series resistor; 20 mA / 16 V max. Approvals UL listed Further information on approvals, to be requested from local distributors/ dealers. FlexGuard® Glassbreak Simulator/Tester The sound of breaking glass is digitally simulated by the FG-701 and is compatible for testing all IntelliSense glassbreak detectors. Testing glassbreak detectors upon installation is highly
Zones	 Sealed Insulating* 3.2 mm Laminated and sealed insulating glass plates of glass are broken. ** For glass coated on the inner surface RE35NEARL or Hard Glass Security F range to 4.6 m. Time-of-Arrival Processing <u>7.6 m Radius Protected Zone 160° 20° Keep-out Zone 20° Keep-out Zone 160° Excluded Zone 160° Excluded Zone </u> 	6.4 mm s types are protected only if both with 3M scotchshield type Film, reduce maximum effective The FG-1025Z performance is achieved through the use of 2 microphones and Time-Of-Arrival processing. When a sound is generated in the room, the microp nearest the sound will hear it first. Microcontroller in the unit monitor sound events received by the microphones and processes only received first at the 'front' micropl which is pointed toward the prote zone. Sounds arriving at the 'back	recommended. microphone first are simply ignored. Because of the symmetry of the unit, (TOA) the space surrounding the front and back microphones is divided evenly hone between protected and excluded The zones. A region 20 degrees wide on s all each side of the unit is the keep-out zone. In this region sound may or may not be processed. Glass to be one, protected should never be within the keep-out zone. However, false-alarm rejection is still high in this region.
		For furthe	information, please contact:

The IntelliSense glassbreak detector family of products is designed for primary perimeter protection. For a complete security system, additional interior protection devices are recommended.

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