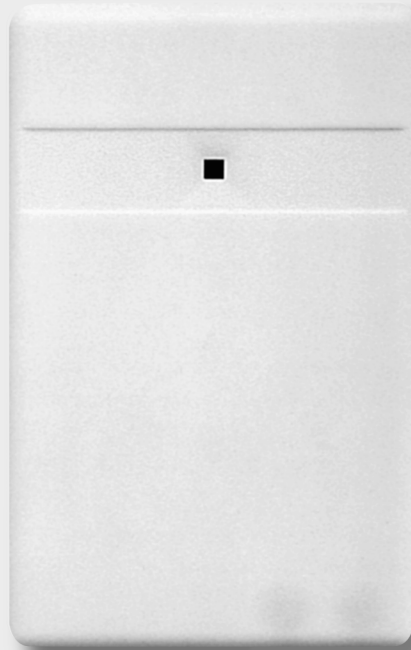## Glassbreak Detector
15' (4.6 m) Range

FlexGuard ®

The new FG-1515 Glassbreak Detector uses the latest technology to provide faster response and increased false alarm immunity. The FG-1515 is designed to allow fast and easy installation. Optimum operation can be quickly verified using the FG-701 Glassbreak Simulator.

Features

■ **FlexCore™ Signal Processor**
The FlexCore Signal Processor is an Application-Specific Integrated Circuit (ASIC), which processes sound data in parallel rather than sequentially; for faster, more accurate detection decisions.

The combination of proven FlexGuard performance with the speed of FlexCore processing provides unmatched false alarm immunity without compromising detection.

■ **Easy Installation and Setup**
IntelliSense's patented technology allows remote activation of Test Mode (w/simulator). The FG-1515 has a centered wire entry hole, 45° terminal blocks, and EOL terminals. A hand-clap feature verifies that the detector is functioning. No sensitivity adjustments are required.

■ **Mount the Detector Anywhere**
Mounts on any wall, in the window frame, or on the ceiling, with no minimum range and a maximum range of 15' (4.6 m) to the glass.

■ **Covers All Glass Types**
The FG-1515 works on all glass types, including plate, tempered, laminated, wired, film-coated, and sealed insulating glass.

IntelliSense®

Specifications

Physical Dimensions:
3 7/8" x 2 2/5" x 7/8"
(98 mm x 62 mm x 21.8 mm)
White high impact ABS plastic housing

Weight:
Product only 3.2 oz. (90 g)
Pkgd. Product 4.1 oz. (116 g)

Range:
15' (4.6 m) maximum, omnidirectional
no minimum range

Alarm Relay:
FG-1515 Form A, 125 mA max. 25 VDC max.
FG-1515T Form C, 125 mA max. 25 VDC max.

Alarm Duration:
5 seconds (unaffected by alarm LED latching)

ESD Immunity:
10 kV discharges of either polarity to
exposed surfaces

Power Requirements:
6 to 18 VDC; 12 mA typical at 12 VDC, 22 mA
max, (Latched LED) AC ripple: 4 Volts peak-to-
peak at Nominal 12 VDC

RFI Immunity:
30 V/m, 10 MHz to 1000 MHz

Operating Temperature:
14° to 122° F (-10° to 50° C)
Storage: -4° to 122° F (-20° to 50° C)

Tamper (FG-1515T only):
Combination cover/wall tamper
25 mA max., 24 VDC max.

Approvals and Listings:
FCC and IC Verified
UL Listed
ULC Listed
CE

Features

FlexCore™ Parallel Signal Processing
Sound wave signals are processed by the ASIC in parallel, rather than in sequence. This enables the detector to process 50% more data in less time; ensuring better detection and false alarm immunity.

Multiple Domain Signal Analysis
The FG-1515 performs Multiple Domain Signal Analysis in which time, frequency and amplitude characteristics are evaluated for signal qualification. This enables the detector to accurately distinguish false alarms from true glassbreak events.

Installer-Friendly Terminal Blocks
Terminal blocks have 45° angle entry and added positions for EOL resistors.

Power Up Self-Test
The unit performs a series of self-tests upon power up. If any self-test fails, the unit will signal trouble by alternately flashing the indicator LEDs.

Remote LED Enable/Disable
Remotely enable or disable the indicator LEDs using the FG-701 Glassbreak Simulator.

Remote Test Mode Enable/Disable
Test Mode can be enabled or disabled remotely using the FG-701. The unit automatically resets from Test Mode in 5 minutes.

Enclosed PC Board
The PCB is protected from potential damage during installation.

Glass Type/Thickness

Type*	Minimum	Maximum
Plate [3a]	2.4 mm (3/32")	10 mm (3/8")
Tempered	3 mm (1/8")	10 mm (3/8")
Laminated [1]	3 mm (1/8")	14 mm (9/16")
Wired	6 mm (1/4")	6 mm (1/4")
Coated [2,3b]	3 mm (1/8")	6 mm (1/4")
Sealed	3 mm (1/8")	6 mm (1/4")
Insulating [1,3b]	(Maximum overall 7/16")	

* Minimum size for all types is 28 cm (11") square; glass must be framed in the wall or mounted in a barrier at least 0.9 m (36") wide.

[1] Protected only if both plates of the unit are broken.

[2] Coated glass with security films, including films for solar protection, up to 12 mil. thick may be used. Film Technologies International, Inc.'s GLASS-GARD® GGLL 1200 has been evaluated with this product by Underwriters Laboratories, Inc. at IntelliSense's request.

[3] In compliance with Underwriters Laboratories of Canada's Standard for Intrusion Detection Units (CAN/ULC-S306-M89):
a. Plate glass 3mm to 10mm can be used.
b. ULC recognizes a maximum range for protecting sealed insulated glass and coated glass of 7.5 ft. (2.3 m).

Note: The FG-1515/1515T detects shattering of framed glass by direct impact. It may not consistently detect breakage by blows that only crack the glass, by high velocity projectiles such as bullets, or glass broken without an impact.

Accessories

Model	Order #	Description
FG-701	P/N 0-000-701-01	Glassbreak Simulator
FG-SP1	P/N 0-010-700-01	Spacer Plate depth of 0.6" [15.2 mm]

FlexGuard® Glassbreak Simulator/Tester

The sound of breaking glass is digitally simulated by the FG-701. The FG-701 is compatible for testing all IntelliSense glassbreak detectors. IntelliSense highly recommends testing glassbreak detectors before final installation. (See the FG-701 Operating Instructions).

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