## Glassbreak Detector and Magnetic Contact

# FlexGuard ®

The FG-1508 glassbreak detector and magnetic contact gives you two sensors in one for maximum versatility, performance and value.

## 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.

■ **Glassbreak Plus Forced Entry Detection**
Glassbreak detection is enhanced by a built-in ValueGap® magnetic contact to monitor the opening of doors and windows. The result is double protection from one sensor.

■ **Selectable Sensitivity**
The sensitivity of the FG-1508 may be set to match the acoustics of the room. Two different sensitivity levels are available; low or high. The range can then be verified remotely with the FlexGuard FG-701 Glassbreak Simulator.

■ **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 8' (2.4 m) to the glass.

■ **Covers All Glass Types**
The FG-1508 works on all glass types, including plate, tempered, laminated, wired, film-coated, and sealed insulating glass.

# IntelliSense®

## Specifications

**Range:**
8' (2.4 m) maximum
4' (1.2 m) maximum (for lowest UL setting)
No minimum range

**Alarm Relay:**
Form A, 250 mA maximum
25 VDC maximum

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

**Tamper Switch:**
Cover tamper 25 mA maximum
24 VDC

**Power Requirements:**
6 - 18 VDC; 13 mA typical at 12 VDC, 22 mA max.
AC Ripple: 4 Volts peak-to-peak at nominal 12 VDC

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

**RFI Immunity:**
30 V/m, 10MHz - 1000 MHz

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

**Magnetic Contact:**
Make gap 0.9" (2.3 cm) minimum
Break gap 2.2" (5.6 cm) maximum

**Physical Dimensions:**
Glassbreak housing: 4-9/16" x 15/16" x 1-1/4"
(11.6 cm x 2.3 cm x 3.2 cm)
Magnet housing: 4-9/16" x 15/16" x 1/2"
(11.6 cm x 2.3 cm x 1.3 cm)

**Weight:**
2.9 oz. (81 g)
Packaged product; 3.8 oz. (108 g)

**Approvals and Listings:**
FCC / IC verified
CE
C-Tick
UL Listed
ULC Listed

## 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-1508 performs Multiple Domain Signal Analysis in which time, frequency and amplitude characteristics are evaluated for signal qualification. This enables the detector to accurately discriminate false alarms from true glassbreak events.

**Two Sensors in One... ValueGap® Contact**
A built-in reed switch and separate actuator magnet provide forced entry protection in addition to glassbreak detection.

**Indicator LED**
Denotes detection of sound events and alarm condition.

**Alarm Memory**
Alarm LED can be set to latch upon alarm; helps identify which FG-1508 alarmed in multiple detector applications.

**Enclosed PCB**
The PCB is protected from potential damage during installation.

**Remote Test Mode Enable and Disable**
Test mode can be activated remotely with the FG-701 Glassbreak Simulator.

**Test Mode Time Out**
Automatically resets from test mode in five minutes.

**Easy Installation and Set-up**
Mount within 8' (2.4 m) of the glass to be protected. No minimum range. Select either low or high sensitivity.

**Power Up and Continuous Self Test**
If any test fails, the unit will signal trouble by alternately flashing the indicator LEDs.

## Glass Type/Thickness

Minimum size for all types is 11" (28 cm) square. Glass must be framed in the wall of the room or mounted in a barrier of 36" (0.9 m) minimum width.

| Type | Thickness Minimum | Maximum |
|---|---|---|
| Plate | 3/32" (2 mm) | 3/8" (10 mm) |
| Tempered | 1/8" (3 mm) | 3/8" (10 mm) |
| Laminated[1] | 1/8" (3 mm) | 9/16" (14 mm) |
| Wired | 1/4" (6 mm) | 1/4" (6 mm) |
| Coated[2,3] | 1/8" (3 mm) | 1/4" (6 mm) |
| Sealed Insulating[1] | 1/8" (3 mm) | 1/4" (6 mm) |

[1] Protected only if both glass plates are broken.
[2] Coated glass with security films, including films for solar protection, up to 12 mil. thick may be used. Film Technologies, Inc.'s GLASS GARD® GLL 1200 has been evaluated with this product by Underwriters Laboratories Inc. at IntelliSense's request.
[3] Underwriters Laboratories of Canada has investigated the use of the coating referred to on note 2 for plate and tempered glass.

Note: The FG-1508 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 impact.

## Accessories

**FG-701 Glassbreak Simulator**
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 during installation.
(See FG-701 Operating Instructions.)