

# FG-1625R/1625RT

The new FG-1625R Glassbreak Detector uses the latest technology to provide faster response and increased false alarm immunity. The FG-1625R is specifically designed to allow fast, easy installation, while the adjustable sensitivity settings can compensate for the acoustics of any room. 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 (with simulator). The FG-1625R has a centered wire entry hole, 45° terminal blocks and EOL terminals. A hand-clap feature verifies the detector is functioning.

### **Selectable Sensitivity**

Two dip switches on the FG-1625 make it easy to set the sensitivity to match the acoustics of room. Four different sensitivity levels are available, ranging from very low to 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 25' (7.6 m) to the glass.

### **Covers All Glass Types**

The FG-1625 works on all glass types, including plate, tempered, laminated, wired, film-coated, sealed insulating glass.

### **Multiple Domain Signal Analysis**

The FG-1625R 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.

### **Enclosed PC Board**

The PCB is protected from potential damage during installation.

### **Patented Remote Test Mode**

The Patented Remote Test Mode can enable or disable the indicator LEDs remotely using the FG-701 Glassbreak Simulator. The detector automatically resets from Test Mode in five minutes.

### **Mounting Locations**

The FG-1625R can be mounted on the ceiling, opposite wall, adjoining wall, or the same wall as the glass.



**Glassbreak  
Detector**

**IntelliSense**

# FG-1625R/1625RT

## SPECIFICATIONS:

### Physical Dimensions:

White high impact ABS plastic housing  
4 1/4" D x 7/8" (11 mm x 2.2 cm)

### Weight:

Product Only:  
-4.5 oz (128 g)  
Pkgd Product:  
-7.5 oz (215 g)

### Range:

25' (7.6 m) maximum, omnidirectional  
Range is adjustable; no minimum range

### Alarm Relay:

FG-1625R: Form A, 125 mA max, 25 VDC max  
FG-1625RT: Form C, 125 mA max, 25 VDC max

### Tamper Switch (FG-1625RT only):

Combination cover/wall tamper  
25mA max, 24VDC max

### Alarm Duration:

Five seconds (unaffected by alarm LED latching)

### ESD Immunity:

10kV discharges of either polarity to exposed surfaces

### Power Requirements:

6 - 18VDC, 12 mA typical at 12VDC;  
22mA max (Latched LED)  
AC ripple: 4V peak-to-peak at nominal 12VDC

### RFI Immunity:

30V/m, 10MHz - 1000MHz

### Operating Temperature:

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

### Approvals and Listings:

FCC and IC verified  
CE  
C-Tick  
UL Listed  
ULC Listed



### Glass Type/Thickness

Type*	Minimum	Maximum
Plate <sup>3a</sup>	2.4 mm (3/32")	10 mm (3/8")
Tempered	3 mm (1/8")	10 mm (3/8")
Laminated <sup>1</sup>	3 mm (1/8")	14 mm (9/16")
Wired	6 mm (1/4")	6 mm (1/4")
Coated <sup>2, 3b</sup>	3 mm (1/8")	6.4 mm (1/4")
Sealed	3 mm (1/8")	6 mm (1/4")
Insulating <sup>1, 3b</sup>	(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.

<sup>1</sup> Protected only if both plates of the unit are broken.

<sup>2</sup> 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 the request of IntelliSense.

<sup>3</sup> In compliance with Underwriters Laboratories of Canada's Standard for Intrusion Detection Units (CAN/ULC-S306-M89):

a. Plate glass 3mm to 10 mm can be used.

b. ULC recognizes a maximum range for protecting sealed insulated glass and coated glass of 12.5 ft. (3.8 m).

Note: The FG-1625R/1625RT 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

### Description

FG-701 P/N 0-000-701-01 Glassbreak Simulator

### 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.

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## Glassbreak Detector

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Louisville, KY 40222  
1-800-467-5875

## ORDERING:

### Part No.

FG-1625R/1625RT

### Description

Glassbreak Detector Round Case

L/FG1625R/D 2/03

**IntelliSense**