

No.9 GLASS SENTRY

GENERAL

Ademco's No. 9 Glass Sentry will detect breaking glass. It covers a 32 sq. ft. area and detects breakage of a single continuous piece of glass. It is not to be used for multi-light openings unless one unit is used per piece of glass. The No. 9 Glass Sentry is listed with Underwriter's Laboratories for primary protection, and therefore, can be used on Grade A installations in lieu of foil.

Research has proven that a high frequency shock wave is produced whenever window type glazing is broken. This shock wave contains a high frequency pattern. This high frequency pattern identifies itself as produced by a break in the glass surface. The shock wave travels across surface of glass in the same manner as waves travel whenever a pebble is tossed into water.

Upon receipt of this high frequency pattern, a tuned fork and tuned cavity within the Glass Sentry become resonant. This actuates an internal mechanical switch to displace itself, to open or close, depending on its preset condition for 1/2 second (500 m.s.) then automatically resets itself.

Glass Sentry requires no operation power, as tuning and switch activation is done by mechanical means. Hence it is "Dry circuit" and adapts to any type of input control or circuit.

Glass Sentry is sensitive only to frequency, and therefore is not affected by vibration or shock created by tapping, hitting, or any disturbance against the glass surface.

Each Sentry protects a 4' x 8' (approx. 32 square feet) glass surface. Mounting is at 3 to 4 inches from corners or edge of framing. Large surfaces require Sentrys at 4' intervals along surface.

Glass Sentrys may be used in unlimited number and connected "open circuit" or "closed circuit"; (spst. n.c. or spst. n.o.)

Glass Sentry operates at full effectiveness whenever "glass cutter" tools are used. "Glass cutters" only etch glazing and determine area glass to be broken. Upon breakage of etched area, high frequency shock waves travel across the surface and are detected by the Glass Sentry. Again, Glass Sentry operates itself to "open" or "close".

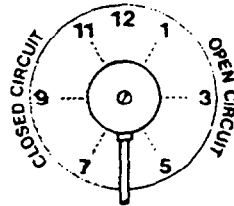
Glass Sentry has proven completely successful in all types of installation. Glass Sentry "on" time is sufficient to operate all types of wireless units.

Glass Sentry greatly increases security of glass surface, while also significantly decreases cost and time of installation.

INSTALLATION AND ADJUSTMENT

Glass Sentry should be applied directly to the window surface as follows:

1. Clean the mounting area with either acetone or denatured alcohol and wipe the surface dry.
2. Place Glass Sentry no less than 3-4 inches from any edge of the glass being protected.
3. Remove the protective covering from the adhesive pad, and press Glass Sentry firmly on the glass with its leads extended down in the 6 o'clock position.
4. Allow at least 6 inches of slack lead wire to the No. 9 before the leads are secured to the frame or edge of the glass.
5. If available, attach the No. 9708 tester probes to the Glass Sentry leads. The Glass Sentry is a closed circuit device when the leads are positioned between 6 and 12 o'clock (going clockwise). It is an open circuit device just after the 12 o'clock position (clockwise) to just before the 6 o'clock position (approximately). Any Glass Sentry indicating the appropriate closed or open condition when the No. 9708 tester is in the SET position is a functioning unit. As an additional test:
6. Set Glass Sentry between the 6 and 7 o'clock position. Move the No. 9708 tester knob to the TEST position (no LED lit). Using the No. 9709 shock unit, strike the glass approximately 6 inches away from the No. 9 with a "wrist snapping" (not a "hammer") motion.



The strike is trying to trick the Glass Sentry into seeing the same frequency as breaking glass, therefore, repeating strikes in succession may be necessary to activate unit. Remember, this is only a secondary test.

7. Sensitivity setting:

Closed circuit: The 9 o'clock position is the normal (least sensitive) position for a typical 1/8 inch residential glass. The 7 and 11 o'clock positions have more sensitivity, and should be used on all other type glass, such as wired, tempered, etc.

Open circuit: The 3 o'clock position is the normal (least sensitive) position for typical 1/8 inch residential glass. The 1 and 5 o'clock positions have more sensitivity and should be used on all other type glass, such as wired, tempered, etc.

OPERATION

The No. 9 Glass Sentry generates a fast open (or close) when it senses breaking glass. It is therefore advisable to use the unit in conjunction with a solid-state control with a fast loop (quick reaction time) selected. For electro-mechanical controls, a No. 9710 Pulse Stretcher should be used as an interface. A pulse stretcher will extend the quick open to approximately five seconds.

NOTE

Pulse stretcher can only be used with No. 9 in closed circuit mode.

Coverage

The No. 9 Glass Sentry will monitor a surface area of approximately 52 sq. ft. with no dimension larger than eight feet. Multiple units should be placed no farther apart than four feet along the area to be covered and at least three inches from any edge of the glass. Keep in mind that the Glass Sentry will protect only a continuous piece of glass. For multi-light openings, separate units must be used.

Types of Glass

Glass Sentry can be attached to wired glass, tempered glass, residential glass (typically 1/8 inch thick), commercial glass (typically 1/4 inch thick).

SPECIFICATIONS:

Maximum Voltage Rating	115 volts rms
Maximum Current Rating	1.0 amp
Configuration	SPST NO/NC
Maximum Resistance1 ohm
Input Leads	Two Wire, Stranded, 18"
Mounting	Self adhesive, peel and stick

U.L. listed for primary and supplemental use.