ENFORCER®

Glass Break / Audio Discriminator

ENFORCER 190

Installation Manual

The ENFORCER 190 is the most convenient audio glass break detector for glass break protection on the market today. Designed with the latest technology, it is the installer's answer to the problem of sensitivity setting and false alarms. A single convenient ENFORCER 190 is enough to protect all the windows and doors within a 15ft radius when mounted on the ceiling, eliminating the need to install unsightly individual detectors on each pane of glass. Sensitivity setting is extremely simple with SECO-LARM's yellow turbulence LED (patented) which eliminates the need for external test meters. The relay output is programmed for a 2-second reset.

- Yellow turbulence led (patented) allows fast and easy sensitivity adjustment without external test meter
- Yellow LED gives pinpoint sensitivity adjustment to eliminate false alarms
- Detects the high-frequency sound of glass breaking
- Wide 25ft radius protection area if ceiling-mounted, 45ft if wall-mounted
- Red trigger LED
- Tamper proof case
- Installs without RF-shielded cable
- Compact size and attractive appearance allow installation anywhere

SECO-LARM®

Parts List
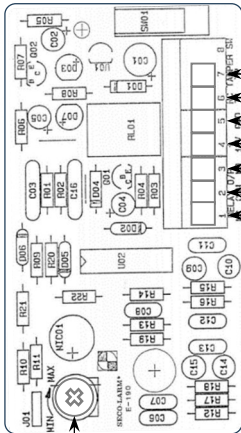
1x **Glass Break / Audio Discriminator**   2x **Mounting screws**   1x **Manual**

Specifications

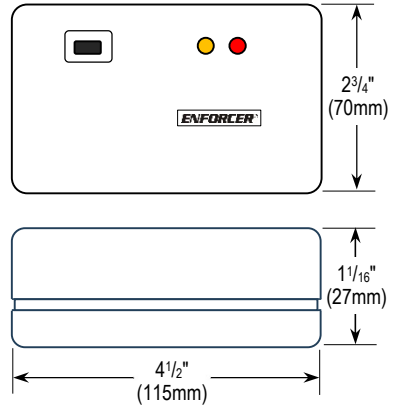| Operating voltage		12VDC (7.5V~15V)
Current draw	Standby	5mA@12VDC
	Triggered	80mA@12VDC
Outputs	Detection	Dry relay, NO/NC/COM (3A@24VDC, 3A@125VAC)
	Tamper	N.C. Contact
LED Indicators	Yellow	Environmental noise level
	Red	Triggered
Protection radius		25ft if ceiling-mounted, 45ft if wall-mounted
Housing material		ABS Plastic
Operating temperature		-14°~122° F (-10°~50° C)
Dimensions		$4^1/_2$"x$2^3/_4$"x$1^1/_{16}$" (115x70x27 mm)
Weight		3.35 -oz (95g)

Overview

Terminal and PCB layout

7 – N.C. Tamper output
6 – COM Tamper output
5 – COM Ground
4 – 12VDC
3 – Relay N.O.*
2 – Relay COM*
1 – Relay N.C.*

Sensitivity adjustment potentiometer

(Drawings not to scale)

*For N.O. output, use terminals 2 and 3.
For N.C. output, use terminals 1 and 2.

Housing

$2^3/_4$" (70mm)

$1^1/_{16}$" (27mm)

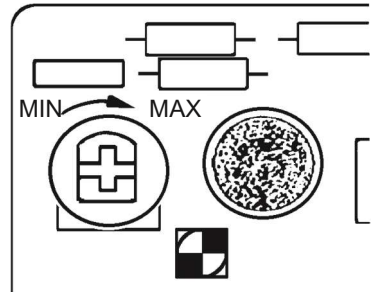$4^1/_2$" (115mm)

Installation

Installation and Operation Notes

1. The detector normally receives power from the alarm panel. If connected to a separate power source, it should also be connected to a rechargeable battery, in case AC power fails.
2. The detector should be mounted in a location so that every glass window and door to be protected is within its radius of protection (25ft if ceiling-mounted, 45ft if wall-mounted). For greatest security, attach to the wall or ceiling, using screws instead of double-sided foam tape. For larger areas, two or more units can be used without fear of interfering with each other.
3. Close all doors and windows when in use.
4. Mount any optional memory buzzer, musical device, or any sound generating equipment as far from the detector as possible to reduce the chance of accidental triggering and reducing the chance of being discovered by an intruder.
5. Use either terminals 2 and 3 for N.O. output or 1 and 2 for N.C. output, but not both.

Setting the Sensitivity

The ENFORCER 190 includes SECO-LARM's unique patented yellow turbulence LED. This LED flashes when environmental noise is high enough to cause false alarms, thereby allowing instant sensitivity setting without the use of a special external test meter.

To set sensitivity, hold a thin flexible plastic ruler flat against a glass window within the unit's protection range. Pick up one end of the ruler while holding the other end down, and then let the ruler snap against the glass window. This should cause the yellow LED to come ON without turning

on the red LED. If the red LED lights with a light snap, the detector setting may be too sensitive. Turn the sensitivity control counterclockwise with a small screwdriver (see diagram at right and *Overview* on pg. 3). If the yellow LED does not come ON, increase the sensitivity by turning the control clockwise. Continue snapping the ruler on the window until the yellow LED comes ON, but the red LED does not. Repeat this process with each window to ensure the detector sensitivity is set for each pane of glass.

When the sensitivity has been adjusted using the above procedure, determine whether the sensitivity is high enough to trigger the alarm by snapping the ruler harder to simulate a break-in. If the red LED does not come ON, the sensitivity must be increased.

NOTE: When used within the approved operating temperature range (see *Specifications*, pg. 2), the detector's sensitivity will remain stable. If the temperature should drop below -14° F (-10° C), the detector's sensitivity will increase, and the sensitivity setting will need to be decreased. If the temperature should rise above 122° F (50° C), the detector's sensitivity will decrease, and the sensitivity setting will need to be increased.

Installation (Continued)

Setting the Sensitivity (Continued)

When setting sensitivity, make sure the room's environment is as close as possible to what it will be when the detector is in use. For instance, if the curtains are usually closed at night when the alarm is armed, then set the sensitivity with the curtains closed. If a window in the room is normally left open, set the sensitivity with the window open. The sensitivity should always be retested when the room environment changes, such as when furniture is moved.

Depending on the type of glass, sensitivity may be different when set by tapping the inside as opposed to the outside of the window with a ruler. For best results, tap the inside of the window.

NOTES:

- Do not set sensitivity higher than necessary to protect the glass in the detector's range. Doing so only increases the chance of false alarms without increasing protection. Leaving a door or window open will also increase the chance of false alarms.
- For extra protection, the ENFORCER 190 is equipped with an N.C. tamper switch to protect against opening or breaking of the case.

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