

# High Performance Siren Driver Module

## ELK-100

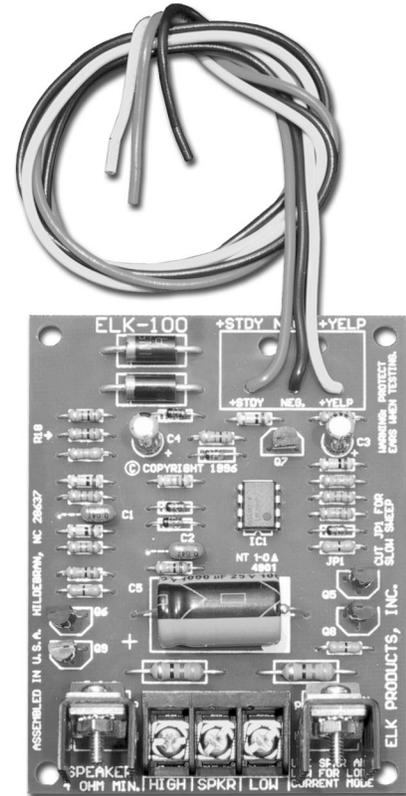
The ELK-100 Siren Driver is a great choice for residential and commercial security installations. It draws less current than most siren drivers, and offers two volume levels (example: one indoor, the other outdoor) simultaneously. Our exclusive *MilliMiser™* option allows further reduction of current draw for controls that have limited alarm or auxiliary output power. The ELK-100 has two inputs, Yelp & Steady. The Steady sound overrides the Yelp. The Yelp input has our unique *ComboTrigger™* feature, especially designed for controls that have a single alarm output with a pulsing option for fire or burglary. When pulsed, this channel produces a distinctive third sound pattern.

## Features

- Two Volume Levels Simultaneously.
- Draws Less Current Than Most Sirens.
- MilliMiser™ Lowers Current Draw.
- Economical - Drives Multiple Speakers.
- ComboTrigger™ For Single Outputs.
- Pre-Wired for easy Installation.
- Lifetime Limited Warranty.

## Specifications

- Operating Voltage: 6 to 14 Volts D.C.
- Current Draw: 1.2 Amps, (700mA on *MilliMiser™* setting), with one 8 ohm speaker.
- Sound Level: 120 dB @ 1 meter, 14 Volts D.C., with one 8 ohm speaker.
- Max. Speaker Loading: 4 Ohms.
- Size: 2.75" x 3.6" (70mm x 91mm).



Features and Specifications subject to change without notice.

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**SPEAKER HOOKUP** The ELK-100 has 3 speaker terminals. Terminal HIGH is for high volume (max. current draw), LOW is for low volume (min. current draw), and SPKR is a common terminal. The unique benefits of having 3 terminals are:

1. Two volume levels can be obtained simultaneously from two speakers (ie: one indoor, the other outdoor).
2. Current draw can be minimized (**MilliMiser™**) by connecting speaker(s) to terminals SPKR & LOW only.
3. Maximum volume can be obtained by connecting speaker(s) to terminals SPKR & HIGH only.
4. Low wattage speakers (10 to 15 watts) may be connected to SPKR & LOW with no danger of burnout.

Speakers 8 Ohm Nom.	Connection of 2 or more Speakers (series, parallel)	Total Load	Avg. current draw using Terminals SPKR & HIGH	Avg. current draw using Terminals SPKR & LOW
1	---	8 Ohms	1.2 Amps	800 mA
2	Parallel	4 Ohms	2.1 Amps	1.5 Amps
2	Series	16 Ohms	700 mA	600 mA
3	2 Series, 1 Parallel	6 Ohms	1.7 Amps	1.2 Amps

TABLE 1. ELK-100 SPEAKER LOADING & CURRENT DRAW

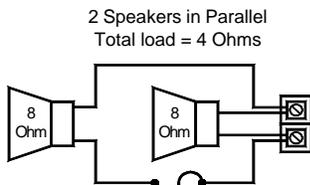
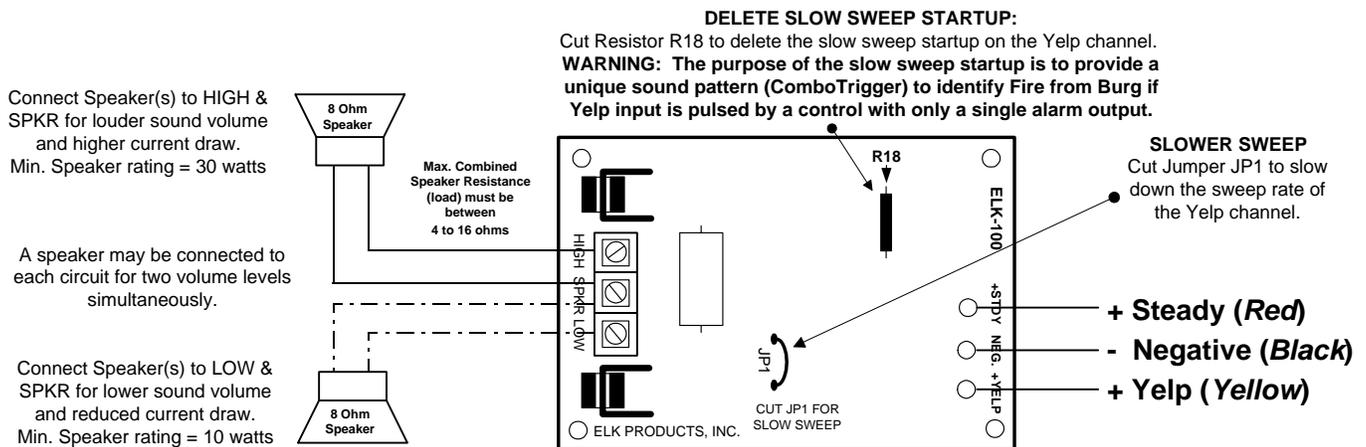
NOTE: While normal resistance for a single alarm speaker is 6.5 to 8 Ohms, total resistance (or load) changes when multiple speakers are wired together in series or parallel. Total resistance should never be less than 4 Ohms on either the SPKR & LOW or the SPKR & HIGH terminal connections. Refer to Table 1 and the diagrams below for wiring multiple 8 Ohm speakers in parallel or series to maintain a load between 4 and 16 Ohms.

**MilliMiser™** Connecting the speaker(s) to the LOW and SPKR terminals allows current draw to be reduced by approximately 25% with only 6 to 8% less sound.

**VOLTAGE INPUTS** Connect the 3 terminals on the ELK-100 to the control panel alarm output as follows:

- +STDY (Red) = Steady Channel generally connected to the alarm output terminal for Fire.
- NEG. (Black) = Common Negative (-)
- +YELP (Yellow) = Yelp Channel generally connected to the alarm output terminal for Burglary.

**ComboTrigger™** For controls with only a single alarm output, connect the NEG and +YELP to the alarm output and program the control to pulse the output (if available) for Fire. Pulsing the +YELP input on/off at a 1 sec. duty cycle produces a unique slow sweep sound which draws attention and helps identify Fire from Burg.



Always add a 1.5 Amp fuse in series with outdoor speaker(s). Shorting of the outdoor speaker wires will blow this fuse and allow other speaker(s) to operate.

