

# Siren Driver - Two Channel

# ELK-101

## APPLICATION

The ELK-101 is a two channel (Yelp and Steady) siren driver. It is capable of delivering high output volume while consuming very low current draw. It can be powered from 6 or 12 VDC and is compatible with a wide variety of alarm panels.

## SPECIFICATIONS

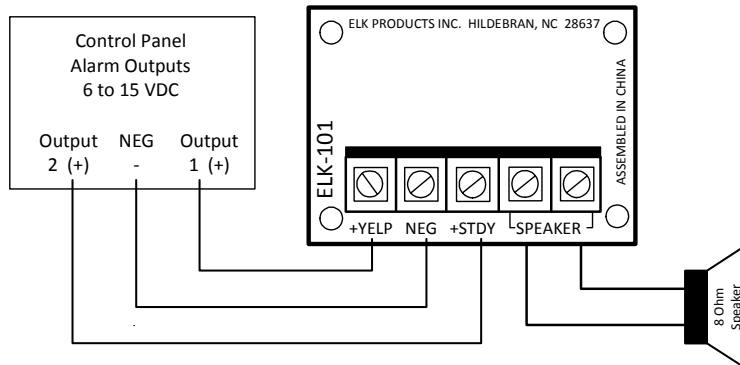
- Two (2) channel operation, steady and yelp sounds
- Steady overrides yelp if both are triggered
- High output
- Very low current draw
- Reverse polarity protection
- Terminals block for easy hookup
- Dimensions: 1.9"H x 2.3"W x .7"D.
- Lifetime Limited Warranty (See Elk website for details)

Features and Specifications subject to change without notice.

## INSTALLATION/OPERATION

1. Mount inside the control. Double sided foam mounting tape is provided.
2. Connect the SPEAKER terminals to 1 or more 8 Ohm alarm type Speakers following the suggested connection diagrams below.
3. Connect the Yelp and/or Steady inputs to positive (+) switched alarm outputs on the control. Then connect the NEG input to the negative of the control or power source. **OBSERVE POLARITY!**

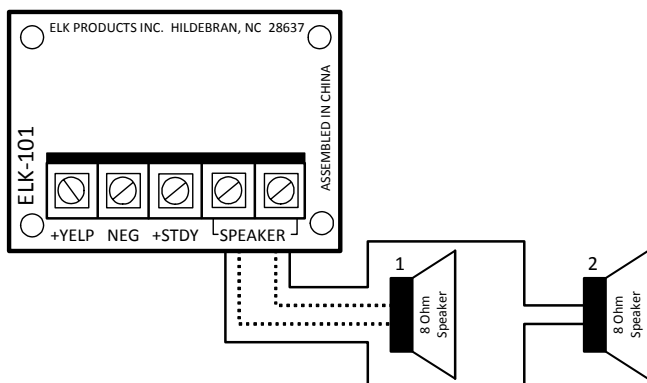
Note: Should both inputs become triggered at the same time the Steady will take priority and override the Yelp.



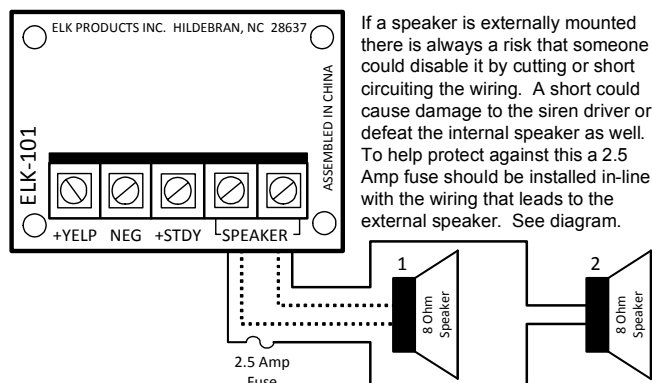
| Combined TOTAL Speaker Load | Voltage | Current Draw |
|-----------------------------|---------|--------------|
| 8 Ohms                      | 6V      | 305 mA       |
| 4 Ohms                      | 6V      | 440 mA       |
| 8 Ohms                      | 12V     | 610 mA       |
| 4 Ohms                      | 12V     | 950 mA       |

DO NOT EXCEED the output ratings of the control or power source. The above chart shows the est. current draw based on speaker load and operating voltage.

### Two (2) Speakers - Parallel wired = 4 Ohm load.

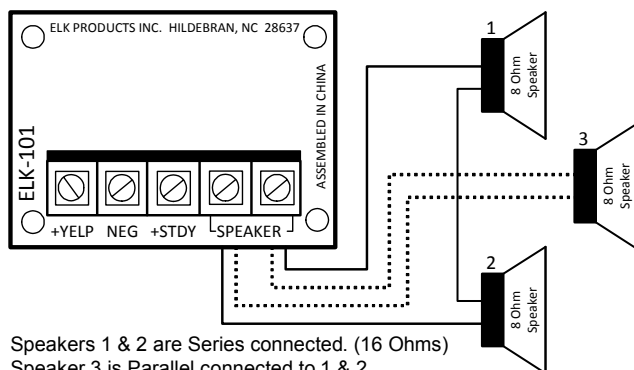


### Two (2) Speakers - Parallel wired and fuse protected.



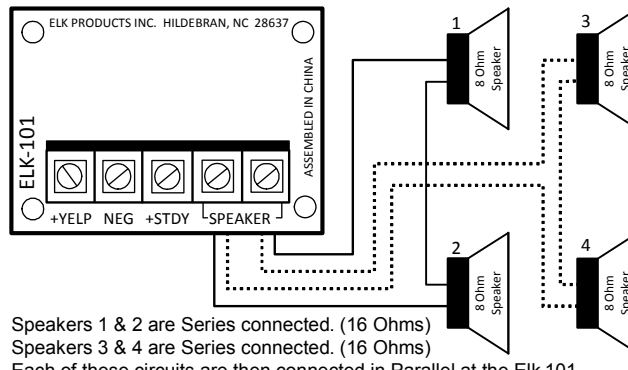
If a speaker is externally mounted there is always a risk that someone could disable it by cutting or short circuiting the wiring. A short could cause damage to the siren driver or defeat the internal speaker as well. To help protect against this a 2.5 Amp fuse should be installed in-line with the wiring that leads to the external speaker. See diagram.

### Three (3) Speakers - Series/Parallel (total Load=6 Ohms)



Speakers 1 & 2 are Series connected. (16 Ohms)  
Speaker 3 is Parallel connected to 1 & 2.  
Net result is approximate a 6 Ohm combined load.

### Two (2) Series wired Speaker pairs. Each pair is then parallel wired to the Siren. (total load = 8 Ohms)



Speakers 1 & 2 are Series connected. (16 Ohms)  
Speakers 3 & 4 are Series connected. (16 Ohms)  
Each of these circuits are then connected in Parallel at the Elk-101.  
Net combined load is around 8 Ohms.