

# 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

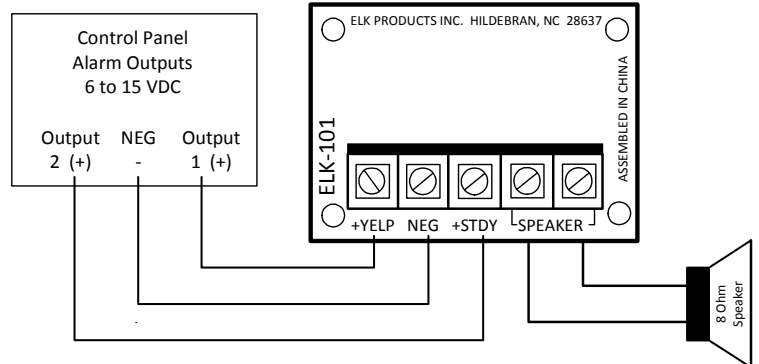
- Two (2) channel operation, steady and yelp sounds
- Steady overrides yelp if both are triggered
- High output
- Very low current draw
- Reverse polarity protection
- Terminals block for easy hookup
- Dimensions: 1.9"H x 2.3"W x .7"D.
- Lifetime Limited Warranty (See Elk website for details)

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.
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!**

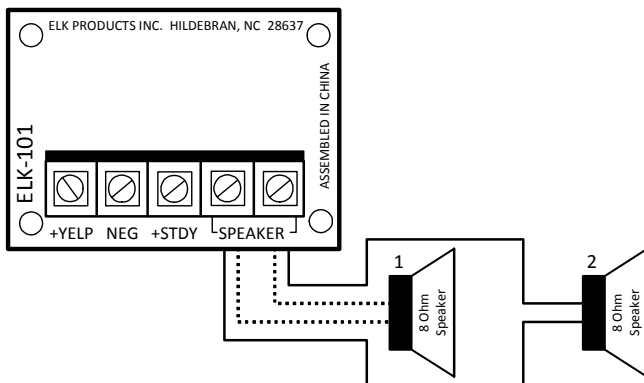
Note: Should both inputs become triggered at the same time the Steady will take priority and override the Yelp.



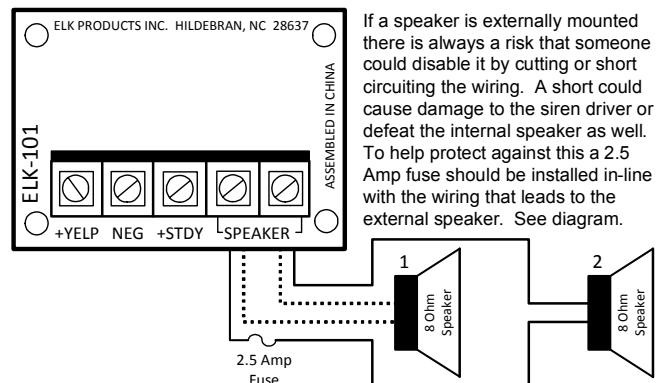
Combined TOTAL Speaker Load	Voltage	Current Draw
8 Ohms	6V	305 mA
4 Ohms	6V	440 mA
8 Ohms	12V	610 mA
4 Ohms	12V	950 mA

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.

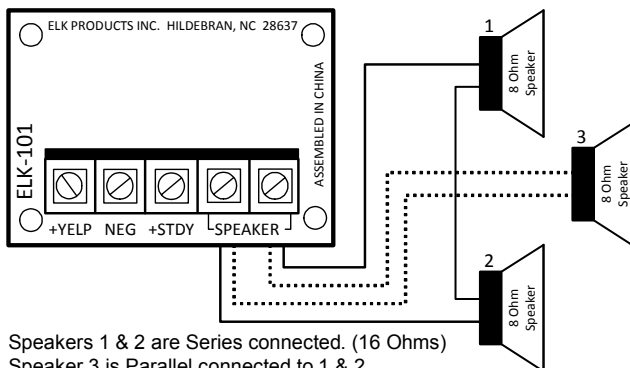


### Two (2) Speakers - Parallel wired and fuse protected.



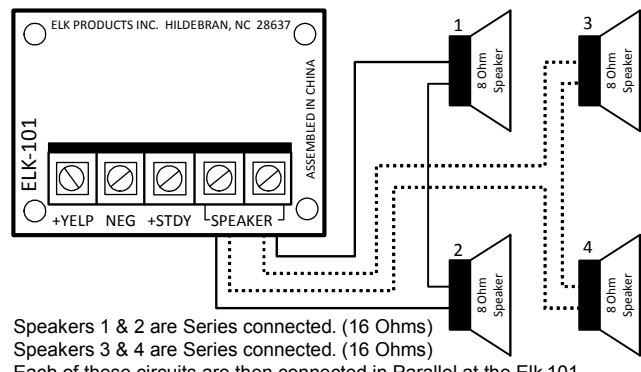
If a speaker is externally mounted there is always a risk that someone could disable it by cutting or short circuiting the wiring. A short could cause damage to the siren driver or defeat the internal speaker as well. To help protect against this a 2.5 Amp fuse should be installed in-line with the wiring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