Siren Driver

ELK-100

Two Channel- High Performance

APPLICATION:
The ELK-100 Siren Driver is a great choice for residential and commercial security installations. It draws less current than many siren drivers, and offers two volume levels (one indoor, the other outdoor) simultaneously. The ELK-100 has two inputs, Yelp & Steady.

FEATURES:
• Two Volume Levels Simultaneously.
• Draws Less Current Than Most Sirens.
• Loud Attention Getting Sound.
• ComboTrigger™ option 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.
• MilliMiser™ option allows further reduction of current draw for controls that have limited alarm or auxiliary output.
• Lifetime Limited Warranty.
• Packed In Reusable Poly Storage Box.

SPECIFICATIONS:
• Operating Voltage: 6 - 14 Volts D.C.
• Sound Level: 122 db @ 1 meter.
• Sounds: Steady, Yelp, & Slow Sweep
• Steady Overrides Yelp.
• Nominal Current Drain: 1.2 Amps.
• MilliMiser™ Current Drain 800 mA.
• Maximum Speaker Loading: 4 Ohms.
• Size: 2.75” X 3.6” (70mm X 91mm).

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For more information contact your Local Distributor or:
ELK PRODUCTS,INC 828-397-4200 FAX 828-397-4415
http://www.elkproducts.com  Email: info@elkproducts.com

PO Box 100 • Hwy. 70W • Hildebran, NC 28637 • USA

Instructions Printed On Inside
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 (MmilliMiser™) 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.

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

**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.

**MmilliMiser™** 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.

**DELETE SLOW SWEEP STARTUP:**

Cut Resistor R18 to delete the slow sweep startup on the Yelp channel.

**WARNING:** The purpose of the slow sweep startup is to provide a unique sound pattern (ComboTrigger) to identify Fire from Burg if Yelp input is pulsed by a control with only a single alarm output.

**LIFETIME LIMITED WARRANTY**

Elk Products, Inc. (“Manufacturer”) warrants to the original purchaser (the “Customer”) that the products it manufactures (“Product”) shall be free from defects in material and workmanship at time of shipment. Manufacturer’s obligations under this Limited Warranty shall be limited to repairing or replacing, at its option, free of charge, any product returned to Manufacturer freight prepaid. Manufacturer shall have no obligations under this Limited Warranty or otherwise if (1) the Product has been damaged by negligence, accident, mishandling, lightning, flood, or other Acts of God, (2) the Product has not been operated in accordance with its operating instructions, (3) the Product has been altered or repaired by anyone outside Manufacturer’s authorized facilities, (4) adaptations or accessories have been made or attached which Manufacturer determined adversely affect its performance, safety or reliability, (5) Products such as batteries and fused transformers have their own warranties, and are not included in this Limited Warranty. If a Product should malfunction or fail, contact Manufacturer or one of its authorized distributers for a Return Authorization (RA) number. Returned Products must include a complete description of the problem, along with the RA number clearly marked on the outside of the package. Manufacturer will not be responsible for any unnecessary items included with any returned Product.

This warranty is the exclusive warranty for any product, Manufacturer specifically disclaims any and all other warranties of any kind, express or implied, including any warranties of fitness for a particular purpose or of merchantability. Manufacturer shall not be liable in tort, including negligence or strict liability, and shall have no liability at all for injury to persons or property, Manufacturer’s liability for failure to fulfill its obligation under this limited warranty or any other liability in connection with a product shall be limited to the amount of the purchase price received by Manufacturer for the product. The remedies stated in this limited warranty are the customer’s exclusive remedies against Manufacturer for any product, under no circumstances shall Manufacturer be liable for any indirect, incidental, special or consequential damages, including lost profits and revenues, inconvenience or interruptions in operations, or any other commercial or economic losses of any kind. These limitations and disclaimers are not made by Manufacturer where prohibited by law. Some states prohibit limitations of warranties and the customer may have additional rights in those states.

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