

## APPLICATION

The ELK-55 Self-Contained Voice Siren produces high quality pre-recorded voice messages along with loud siren sounds. It features two (2) channels, one for Burglary and one for Fire. The voice message and the siren alternately sound whenever one of the channels is activated. The ELK-55 may also be customized by use of removable on-board jumper plugs. For example: our **MilliMiser™** option allows the already low current draw of the ELK-55 to be reduced even lower. This is ideal for controls with limited alarm output power.

## FEATURES

- Two Input Channels, Burglar & Fire.
- Bilingual Voice - *English Or Spanish.*
- Temporal Coded Bell for Fire signalling.
- Siren only, Speech only, or combined.
- **MilliMiser™** - Lower Current Draw.
- **ComboTrigger™** - Single Alarm Outputs.
- **VolumeStep™** - Gradual Volume Rise.
- Lifetime Limited Warranty.

## SPECIFICATIONS

- Operating Voltage: 10 to 14 Volts D.C.
- Sound Level: 122 db, 13.8 VDC @ 1 meter.
- Nominal Current Drain: 1.25 Amps.
- **MilliMiser™** Current Drain 800 mA.
- Size: 4"H x 4" W x 3.5"D.
- Mounting: Removable "U" Shaped Bracket.



Features and Specifications subject to change without notice.

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**ELK**  
PRODUCTS, INC.

## WIRING CONNECTIONS for ELK-55

**WHITE (Burglary BA+):** Connect to the positive (+) 12 VDC Burglary alarm output terminal. NOTE: This input utilizes our **ComboTrigger™** feature which automatically recognizes the difference in a steady voltage or a pulsing voltage from the control's alarm "bell" output. If the input voltage is steady the Yelping siren and Burglary voice message will play. If the input voltage is pulsing (.5 to 1.5 second intervals) the Bell sound and the Fire message will play, provided the Red wire is connected to a constant +12 VDC source as explained below. The ELK-55 is ideal for controls which have only a single alarm "bell" output.

**ORANGE (Fire FA+):** Connect to the positive (+) 12 VDC Fire alarm output terminal. Note: It may not be necessary to connect this wire if the control panel can pulse the alarm "bell" output for a fire alarm condition. Refer to the instructions for the White and Red wires for more information.

**BLACK (Neg -):** Connect to common negative (-) of the control panel.

**RED ( 12 Vdc +):** OPTIONAL Connection of this wire to a positive (+) 12 VDC constant power source allows use of the steady/pulse **ComboTrigger™** feature by supplying standby current to the microprocessor in the ELK-55. NOTE: Most of the operating current will also be drawn from this wire, therefore the power source must be capable of providing up to 2 Amps of current. It may be necessary to connect this wire directly to the standby battery. If so we recommend using an in-line fuse holder with a 2 Amp fuse for overcurrent and short circuit protection.

**GREEN (BA -):** OPTIONAL Some controls, (DSC & others) switch on and off the negative (-) side of the alarm output instead of the positive (+). The ELK-55 can accommodate this operation quite well. Simply connect the Green wire to the negative (-) 12VDC Burglary alarm output terminal, the Red wire to the positive (+) alarm terminal, and the black wire to the common negative (-) terminal of the control. When connected in this manner, this input will also activate the Fire channel message if the alarm output is pulsed on/off in 1/2 to 1.5 second intervals.

### VOICE MESSAGES

Voice messages are spoken in English, Spanish/English, or Spanish only, depending upon the switch and jumper settings. (See "Jumper Options"). Each channel has an initial cycle, followed by a repeating cycle.

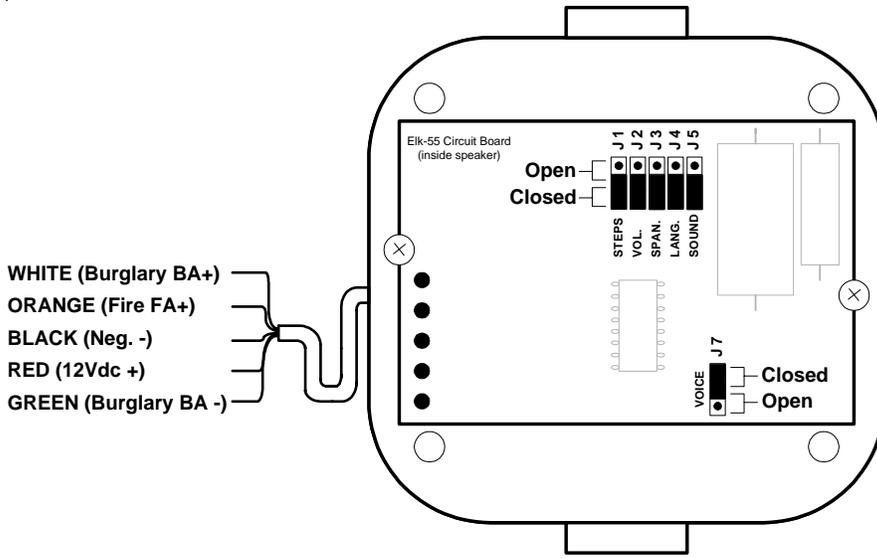
**BA (English):** 3 Sec. Tone, Intruder, intruder, leave immediately followed by warble or pulsing buzzer sound. Repeat

**FA (English):** Fire, fire, leave immediately Followed by a loud distinctive Temporal Coded Bell sound. Repeat

**BA (Spanish):** 3 Sec. Tone, Intruso, intruso Followed by warble or pulsing buzzer sound. Repeat (Message will alternate in English unless J3 is opened.)

**FA (Spanish):** Incendio, incendio Followed by a loud distinctive Bell sound. Repeat (Message will alternate in English unless J3 is opened.)

**PULSING BA INPUT:** (Spanish or English) 3 Sec. Tone, Fire, fire, leave immediately Followed by a Temporal Coded Bell sound. Repeat



**Figure 1**  
Wiring hookup and view of inside with back removed.

#### Jumper Options:

- |           |  |
|-----------|--|
| <b>J1</b> | Closed = Full Volume<br>Open = <b>Volume Step™</b> Siren starts off at low volume and gradually steps up to full volume in 90 seconds.   |
| <b>J2</b> | Closed = Full Current.<br>Open = <b>MilliMiser™</b> Low Current Draw. Reduces current draw by approx. 25% with only 8-10% less volume. Great for controls that have limited alarm current. |
| <b>J5</b> | Closed = Warble Siren Sound.<br>Open = Pulsing Buzzer Sound.   |

	J3	J4	J7
English Speech plus Siren =	Closed	Closed	Closed
English Speech Only =	Closed	Closed	Open
Spanish Speech plus Siren =	Open	Open	Closed
Spanish Speech Only =	Open	Open	Open
Spanish and English plus Siren =	Closed	Open	Closed
Spanish and English Only =	Closed	Open	Open
Siren Sounds Only (No Voice) =	Open	Closed	Closed

#### 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 obligation under this Limited Warranty or otherwise if (1) the Product has been damaged by negligence, accident, mishandling, lightning or 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 to the Product which, in Manufacturer's sole determination, have adversely affected its performance, safety or reliability. 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 distributors for a Return Authorization (RA) number. Returned Products must include a complete description of the problem, along with the RA number clearly marked on 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 REGARDING 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.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1) Reorient or relocate the receiving antenna.
- 2) Increase the separation between the equipment and receiver.
- 3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4) Consult the dealer or an experienced radio/TV technician for help.