

*** Try these other fine ELK products ***

M1 Cross Platform Control

- M1G** Full Featured Security & Automation Control
M1KP LCD Keypad, 2 x 16 Character, backlighted
M1XIN 16 Zone (input) expander. Up to 12 per sys.
M1XOVR 16 Output expander. 8 voltage/8 Relays
M1RB 8 relay board for use w/Ctrl, XOVR, or XO
M1DBH Data Bus wiring hub for multiple homeruns
M1XEP Ethernet port expander/interface
M1XSP Serial port expander for additional serial ports.

Magic Module Series

- MM220** Magic Module, 2 Input, 2 Output, Programmable
MM443 Magic Module, 4 Input, 4 Output, Programmable
MB485 Data Bus Interface, RS232 to RS485

Rust Free Sirens / Speakers

- 1RT** Speaker & Stainless Steel Enclosure
150RT Siren & Stainless Steel Enclosure

Speakers & Sirens

- 44** Speaker, 30 W, 8 Ohm Compact Horn
45 Siren, Compact Horn, 118db
M120 Siren, Single Tone, 107db, Mini Horn
SP15 Speaker, 15 watt, Small Horn
SP30 Speaker, 30 watt, Horn
SP35 Speaker, 20 watt, Interior
SP40 Speaker, 40 watt, Horn
SS15 Siren, Dual Tone, 110db, Horn
SS30 Siren, Dual Tone, 120db, Horn
SS36 Siren, Dual Tone, 105db, Interior

ECHO™ Sirens & Speakers

- 73** ECHO Speaker, 20 Watt, Interior
74 ECHO Dual Tone Siren, Interior
75 ECHO Voice Siren, Interior

Siren & Voice Drivers

- 100** High Performance Siren Driver
110 Voice Siren Driver, English & Spanish
120 Recordable Voice Module and Siren
124 Recordable Voice Module, 4 Channels

Surge Suppressors

- 950** Surge Suppressor, Phone & Power Line
951 Surge Suppressor, Phone - Single Line
955 Surge Suppressor, Phone - Dual Line

Relay Modules

- 912** Compact Relay, 12 Vdc, SPDT
912B Heavy Duty Compact Relay, 12/24 Vdc, SPDT
924 Sensitive Relay, 12/24 Vdc, DPDT
941 Alarm Output Director
960 Delay Timer Relay, 1 sec. to 60 min.

Power Products

- 1250** Battery, Lead Acid, 12v, 5Ah
1280 Battery, Lead Acid, 12v, 8Ah
P112 12 Volts DC, 1 Amp Power Supply w/Enclosure
P124 24 Volts DC, 800mA Power Supply w/Enclosure
P1216 12 Volts DC, 1.5 Amp Power Supply
P412 12 Volts DC, 4 Amp Power Supply
P624 Power Supply & Battery Charger
PD9 Power Distribution Module
965 Low Battery Cutoff and Power Switch
TRG1640 Transformer, 16.5VAC @ 40 VA
TRG2440 Transformer, 24VAC @ 40 VA

Accessories

- 129** Computer Sound Card Interface
800 Audio Amplifier, 10 Watts
900-2 "B" Connectors, Unfilled, 500 pcs
902-2 "B" Connectors, Gel filled, 500 pcs
999 Double Sided Tape
SL1 Strobe Light, 4 colors available
WK1 Wall Mount Kit for SL1 Strobes

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



Siren Driver

Two-Channel High Performance

ELK-100

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
- Reduce current draw with MilliMiser™ option
- ComboTrigger™ - works well with controls with a single alarm output
- Lifetime Limited Warranty

Siren Driver

ELK-100



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)

Features or Specifications subject to change without notice.

Instructions Printed On Inside



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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

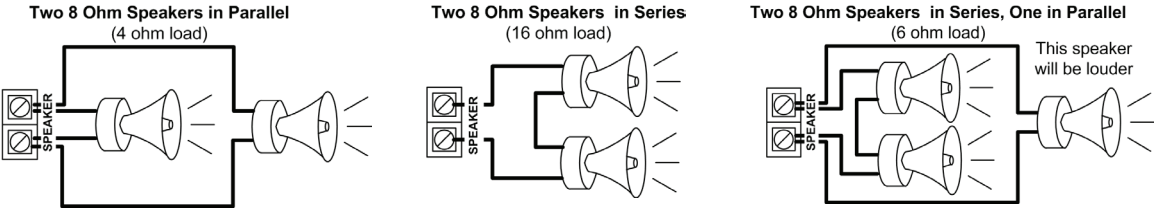
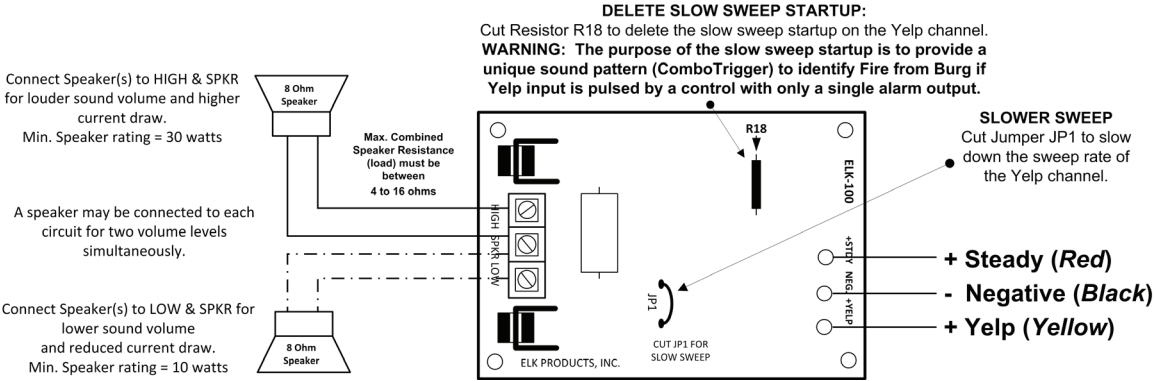
NOTE: While normal resistance for a single alarm speaker is 6.5 to 8 Ohms, total resistance (or load) changes when multiple speakers are wired together in series or parallel. Total resistance should never be less than 4 Ohms on either the SPKR & LOW or the SPKR & HIGH terminal connections. Refer to Table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



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 RMA number clearly marked on outside of the package. Manufacturer will not be responsible for any unnecessary items included with any returned Product.

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