* Try these other fine ELK products *

**Magic Module Series**

- MM443: Magic Module, 4 Input, 4 Output, Programmable
- MM447: Automation Controller w/Voice, C addx Interface
- MV480: Recordable Voice Module, 400 Channels
- MKHOME1: Home Control Kit w/ C addx NX Controls
- MK-485: Programming Kit, MB485, Cables, Software
- MK-410: X-10 Transceiver Kit, Programmed MM443
- MA100: Button™ Access Kit w/ MM443, MA100, MA101
- MA101: Button™ "Touchkey" Reader & Interface Pack
- MA101: Button™ "Touchkeys", 10 pcs w/keyring holders
- MA215: Proximity / Wiegand Data Interface to MM443
- MB485: Data Bus Interface, RS232 to RS485
- MC100: Clock / Calendar Module for MM443
- ML8: Link Interface to C addx NX Controls
- MT100: Temperature Sensor Module for MM443
- MM220: Magic Module, 2 Input, 2 Output, Programmable

**Rust Free Sirens / Speakers**

- 1RT: Speaker & Stainless Steel Enclosure
- 150RT: Siren & Stainless Steel Enclosure
- 155RT: Voice Siren in Stainless Steel Box

**Speakers & Sirens**

- 44: Speaker, 30 W, 8 Ohm Compact Horn
- 45: Siren, Compact Horn, 118db
- 55: Voice Siren, Compact Horn
- 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

**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**

- 1240: Battery, Lead Acid, 12v, 5Ah
- 1270: Battery, Lead Acid, 12v, 8Ah
- 12100: Battery, Lead Acid, 12v, 12Ah
- 12170: Battery, Lead Acid, 12v, 18Ah
- 12250: Battery, Lead Acid, 12v, 25Ah
- 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, 16.5V@ 40 VA
- TRG2440: Transformer, 24V@ 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
- 980: Telephone Line Fault Monitor
- 998: Warning Alarm System Decals
- 999: Double Side Tape
- SL1: Strobe Light, 4 colors available
- WK1: Wall Mount Kit for SL1 Strobes

For more information contact your local Distributor or:
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http://www.elkproducts.com  Email: info@elkproducts.com

05/03
**APPLICATIONS AND WIRING DIAGRAMS**

**Example 2:** Relay "A" is used to bypass a 24 hour zone when an access code is entered on the control's keypad. The "-" Access Output is connected to -T on the ELK-924.

**Power Terminals:**
Connect to Aux. Power.
POS = +", NEG = -"

**Trigger Terminals:**
For positive (+) outputs, use +T.
For negative (-) outputs, use -T.

**Relay "A" Contacts:**
COM and N/C are connected when ELK-924 is off (no trigger).
COM and N/O are connected when ELK-924 is on.

**Relay "B" Contacts:**
COM and N/C are connected when ELK-924 is off (no trigger).
COM and N/O are connected when ELK-924 is on.

**RED LED (D3):**
On: The ELK-924 is triggered and BOTH relays are energized (COM and N/O are connected).
Off: The ELK-924 is not triggered and BOTH relays are de-energized (COM and N/C are connected).

**Example 1:** The relays are used to switch two different voltages. The ELK-924 is powered by the control panel and triggered by a low-current, positive alarm output.

**Example 3:** Wire jumpers are used to tie Relays "A" and "B" in parallel for high current switching. Currents as high as 12A can be switched with this hookup. **Note:** Use heavy-gauge wire for all high current runs.

**Hookup Examples for Disabling Sensitive Trigger**

**Example 2:** Relay "A" is used to bypass a 24 hour zone when an access code is entered on the control's keypad. The "-" Access Output is connected to -T on the ELK-924.

**Example 4:** If sensitive trigger is not desired, place a wire jumper between POS and +T (for positive output controls) or between NEG and -T (for negative output controls).