

* Try these other fine ELK products *

Magic Module Series

- MM443** Magic Module, 4 Input, 4 Output, Programmable
MM447 Automation Controller w/Voice, Caddx Interface
MV480 Recordable Voice Module, 400 Channels
MKHOME1 Home Control Kit for Caddx NX Controls
MK400 Starter Kit, Includes MM443 & MK485
MK485 Programming Kit, MB485, Cables, Software
MK410 X-10® Transceiver Kit, Programmed MM443
MK420 iButton™ Access Kit w/ MM443, MA100, MA101
MA100 iButton™ 'Touchkey' Reader & Interface Pack
MA101 iButton™ 'Touchkeys', 10 pcs w/keyring holders
MA290 Proximity / Wiegand Data Interface to MM443
MB485 Data Bus Interface, RS232 to RS485
MC100 Clock / Calendar Module for MM443
ML8 Link Interface to Caddx 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

ECHO™ Sirens & Speakers

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

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

- 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, 16.5VAC @ 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
980 Telephone Line Fault Monitor
998 Warning Alarm System Decals
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
01/03

Telephone Line Fault Monitor ELK-980

APPLICATION:

The **ELK-980** triggers a relay output upon sensing a dead telephone line. Circuitry monitors phone line voltage as well as current in order to protect against false sensing. It installs easily between the incoming telephone block and the equipment using standard 8 conductor modular cables (not supplied).

ELK
PRODUCTS, INC.

Telephone Line Fault Monitor ELK-980



FEATURES:

- Detects a Faulted Telephone Line.
- Monitors Phone Line Voltage and Current.
- Selectable Time Delay period on the relay.
- Built-in LED displays Status / Fault Memory.
- Unit is Powered by 12 or 24 Volts D.C.
- Provides Form "C" Relay Output on Fault.
- Dual RJ31/38X 8 Position Modular Jacks.
- Lifetime Limited Warranty, call for details.

SPECIFICATIONS:

- Operating Voltage: 12 or 24 Volts D.C.
- Current Draw: 30mA.
- Dimensions: 4.4" x 3.0" x 1.125".
- Relay Contact Rating: 1A @ 250VAC.
- Requires (2) 8 Pin Modular Cables
(not included).

This device complies with Part 68 of the FCC rules. FCC Reg. No. 5K6USA-25252-KX-N Ren No. 0.0B. It has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. See label on ELK-980 for Canadian DOC Certification Number.

Features and Specifications subject to change without notice.

ELK
PRODUCTS, INC.

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<http://www.elkproducts.com>
email: info@elkproducts.com

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Instructions Printed On Inside

INSTALLATION

1. Connect the ELK-980 to the incoming phone jack using a standard 8 wire full modular "male to male" phone cord (J2).
 2. Connect the security equipment using a second 8 wire cord (J1). Depending on the equipment, this cord may be identical or it may have a male plug on one end and spade terminals on the other. (**PHONE CORDS ARE NOT SUPPLIED**)
 3. Connect two (2) wires from the ELK-980 to 12 Volts D.C. To power from 24 VDC, move **Jumper JP3** to the **24V** position.
 4. Connect two (2) wires from the relay output to the device that is to be activated when a dead phone line is detected.
- Option:** Power and relay connections can be made using the four (4) extra wires in modular cord J1. This requires a cord with a male plug on one end and spade terminal wires on the other. This is not possible if the security equipment requires a male plug ended cord. See **FIGURES 1 and 2** below for details on the various jumper options and wiring configurations.

OPERATION

A typical on-hook phone line will measure around 48 volts. The voltage is lower during a call in process (off-hook), however the telephone instrument will then draw current on the line. The ELK-980 utilizes both telco voltage and current to properly detect a faulted line while reducing incidents of false detects. **The ELK-980 considers the phone line to be faulted whenever the line voltage falls below 3 volts and the line current draw is less than 18mA.**

- PHONELINEOK** - STATUS LED blinks once per second as line is tested. Relay energized, contacts COM and NC are closed.
- PHONELINE FAULT** - STATUS LED steady ON. Relay de-energized, contacts COM and NC are open, COM and NO are closed.
- FAULT MEMORY** - Upon restoral of a phone line fault the LED remains predominantly ON and blinks OFF once every 3 seconds. To reset memory indication, momentarily short (for 2 seconds) the two small pins beside the STATUS LED. LED should return to 1 blink per second if phone line is OK.

