

*** 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:
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<http://www.elkproducts.com> Email: info@elkproducts.com
 05/02

Low Battery Cutoff & Master Power Switch ELK-965

APPLICATION:

The **ELK-965** is a Low Battery Cutoff Module combined with a Master Power Switch. It is designed to work with virtually any 12 Volt D.C. control panel or power supply. In the event of an extended power outage, the ELK-965 sensing circuit automatically disconnects the battery when the voltage falls below 10 Volts.



Low Battery Cutoff and Master Power Switch ELK-965



In the event of an extended power outage, the ELK-965 sensing circuit automatically disconnects the battery when the voltage falls below 10 Volts. This helps to prevent "deep discharging" of the battery. The convenient power switch permits the installer or user to easily disconnect both the Battery and the AC power from the control or power supply.

FEATURES:

- Works with most 12 Volt DC Control Panels.
- Automatic Low Battery Cutoff Protects Battery From Deep Discharge.
- AC and Battery On / Off Power Switch.
- Visual LED Power Indicator.
- Installer Friendly - Small Compact Size.
- Includes AC Wires & Battery Leads.
- Fits Standard Snap Track.
- Includes Double Sided Mounting Tape.
- Lifetime Limited Warranty, call for details.
- Packed In Reusable Poly Storage Box.

SPECIFICATIONS:

- Size: 1.75" X 2.185" (44.5mm X 55.5mm).
- Relay Contacts: 7 Amp @ 28 VDC.
- On / Off Power Switch: DPDT Slide Type.
- AC Power Leads: 18AWG, 18" Length.
- Maximum Transformer Size: 18 VAC.
- Battery Leads: 18 AWG, 16" Length.
- Low Battery Cutoff Voltage: ~ 10 Volts D.C.

Features or Specifications subject to change without notice.

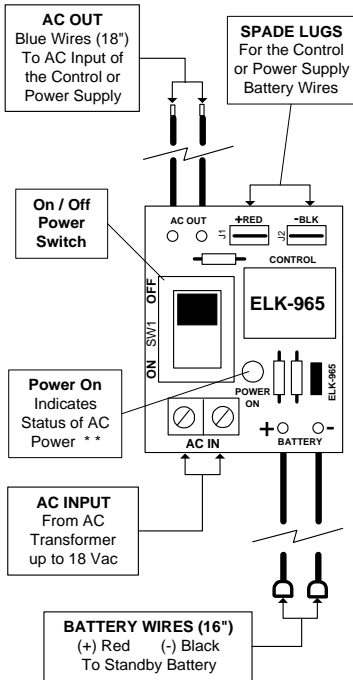


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Instructions Printed On Inside

ELK-965 INSTRUCTIONS

The ELK-965 is extremely useful for adding a Master Power On / Off switch and an automatic low battery cutoff to virtually any 12 Volts D.C. Control Panel or Power Supply.



Installation

1. Disconnect AC transformer and battery from the Control or Power supply.
2. Turn off the Power Switch on the ELK-965.
3. Connect blue wires from the ELK-965 to the AC input of the Control or Power Supply.
4. Connect red and black battery wires from the control or power supply to the male spade lugs on the ELK-965.
5. Connect AC transformer wires to the terminals marked AC IN on the ELK-965.
6. Connect red and black battery wires from the ELK-965 to the 12 Volt D.C. standby battery.

Note: The Control or Power Supply cannot be powered up from the battery only because the ELK-965 battery cutoff relay requires AC power to be on and the Control or Power Supply charging current to be verified before it will energize..

Operation

In the event of an AC power outage the battery continues to provide power until it's voltage level drops to approximately 10 Volts. The ELK-965 will then disconnect the battery, thus shutting off the DC power to the device and saving the battery from a harmful deep discharge condition. The battery remains disconnected until the AC power is restored.

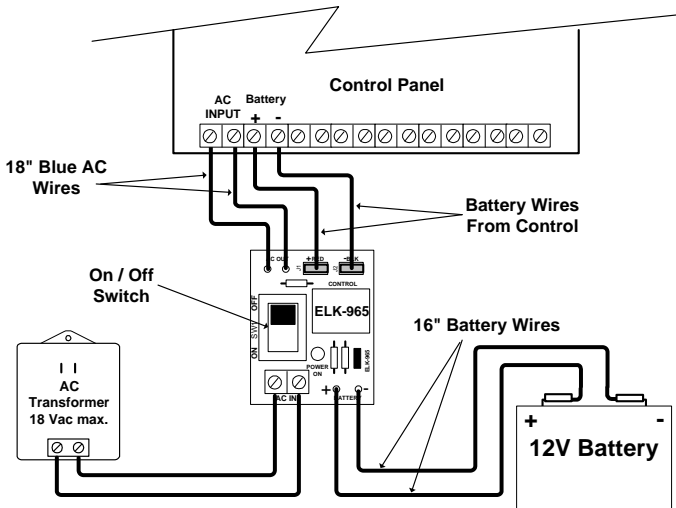
The On / Off switch allows both the AC and DC (battery) power to be turned off to a control or power supply. The green Power On LED primarily indicates the status of the incoming AC power, however it can also provide other useful troubleshooting indications.

** Green "Power On" LED Indications

LED On = AC Power is On and the red and black battery wires from control are connected.
LED OFF = AC Power is Off or the red and black wires from control are both disconnected.
LED Dim = AC Power On but one of the red or black wires from control is disconnected.

Caution: The ELK-965 cannot determine the status or condition of a battery. This functionality would have to be provided by the control panel or power supply.

Control Panel Hookup



Power Supply Hookup

