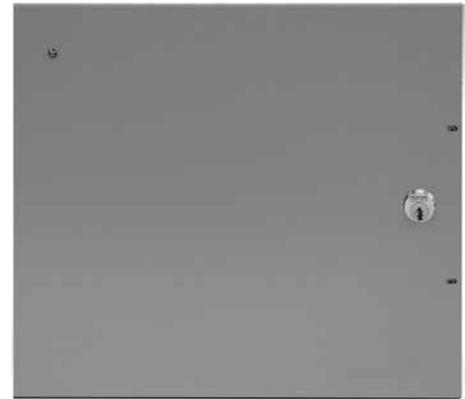


ELR150 Power supply door opened



ELR150 Power supply door closed

Available for all Series Devices

The ELR option provides remote Latch Retraction of exit devices. Continuous duty solenoids retract the Latchbolt(s) for momentary unlatching or continuously for dogging. The ELR feature can be interfaced with automatic door operators, card readers, push buttons, toggle/key switches, and fire alarm systems.

- ELR option **REQUIRES** ELR150 Series Power Supply.
- UL Listed for Panic and Fire for Class II Circuitry
- ELR can be used in combination with all Apex options including Hex Key or Cylinder Dogging. ELR option is not available for (DE) Delayed Egress Devices.

Door Widths –3 Device - 2-7 to 3-0 Door
 4 Device - 3-1 to 4-0 Door

The Power Supply model number is determined based on the number of devices requiring electrical power. See To Order ELR150 Power Supply below.

To order: specify prefix “ELR” (e.g. ELR2108)

ELR Conversion Kit

A standard device can be retrofit to the Electric Latch Retraction option by ordering the kits listed below. A ELR Conversion Kit **REQUIRES** a ELR150 Series Power Supply.

To Order:

Wide Stile Devices

- 3-0 ELRK-3, ELRKF-3
- 4-0 ELRK-4, ELRKF-4

Narrow Stile Devices

- 3-0 NELRK-3, NELRKF-3
- 4-0 NELRK-4, NELRKF-4

Note: Power may be supplied through a 4-wire continuous circuit hinge (furnished by others).

Solenoid Specifications

Current Pulse (2 seconds max.) 4.75 Amp.
 Continuous 3.6 VDC / 0.8 Amp.

To Order: ELR150 Power Supply – The model number is determined based on the number of devices requiring electrical power.

- ELR150 - Power Supply, no control modules
- ELR151 - Power Supply including (1) control module to control (1) exit device
- ELR152 - Power Supply including (2) control modules to control (2) exit devices
- ELR153 - Power Supply including (3) control modules to control (3) exit devices
- ELR154 - Power Supply including (4) control modules to control (4) exit devices

To order power supply with Battery Backup specify suffix BT (e.g. ELR151BT)

ELR150 Series Power Supply

The ELR150 Series is a power supply **REQUIRED** to control ELR Devices. The power supply contains a Motherboard that will accept up to four plug-in Control Modules. Each Control Module (part #CM150-08, see page 22) controls one ELR Device and includes a Time Delay Feature. The Time Delay provides a variable (0 - 4 minutes) Latch Retraction period in response to a momentary input.

Specifications

- UL Listed for Class II Output.
- UL 294 - Conforms to U.L. 294 Standards incorporating enhanced Access Control communication capabilities.
- Circuit breakers provide protection for Motherboard
- 115 or 230 Volt user selectable switch.
- A.C. Input = 115 Volts at 1 Amp.
- Battery Back-up / Power Tap available (see page 22).
- LED Indicator - Provides clear indication that power is available to the supply.
- Keyed Cabinet - To maintain safety and security, each Power Supply is equipped with a preinstalled key-cylinder.
- Includes lockable box with key lock.
- Dimensions: 16” W x 14” H x 6” D.
- Weight: 15 lbs.

ELR POWER SUPPLY ACCESSORIES

Control Module

The CM150-08 Control Module is a card that is installed in the ELR150 Series Power Supply and controls one ELR device and includes a Time Delay Feature. The Time Delay provides a variable Latch Retraction period in response to a momentary input.

Specifications

Input

Switch Input

- Normally open

Voltage Input

- Input Voltage: 5-24VDC or VAC
- Input Current: approx. 0.005 Amp.
- Minimum pulse width: 0.25 seconds

Output

- Current Pulse: 4.75 Amp. (2 seconds max.)
- Continuous: 3.6 VDC / 0.8 Amp.

Time Delay

- User selectable: 0-4 minutes delay after input is removed

Fire Alarm Terminal

- Red LED (D3) blinks when Fire Alarm interrupts circuit
- Provides immediate termination of output

Switch Input:

- Accepts normally closed contacts or 5-24 Volts from a listed fire detecting device.

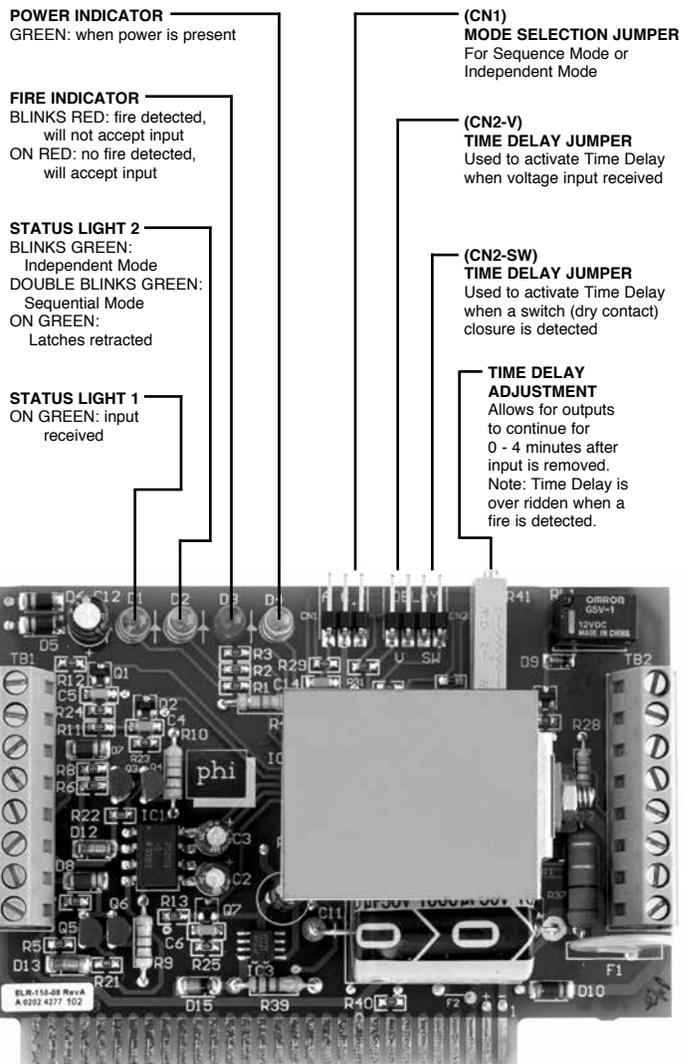
Voltage Input:

- Input Current: 0.005 Amp.
- Minimum pulse width: 0.25 seconds

Auxiliary Contacts

- Relay isolated contacts provided for remote signaling (e.g. door operator)
- Normally open or normally closed contacts are rated at 0.5 Amp., 24VDC or VAC
- Contact operation follows successful operation of the ELR device.

To Order: specify CM150-08

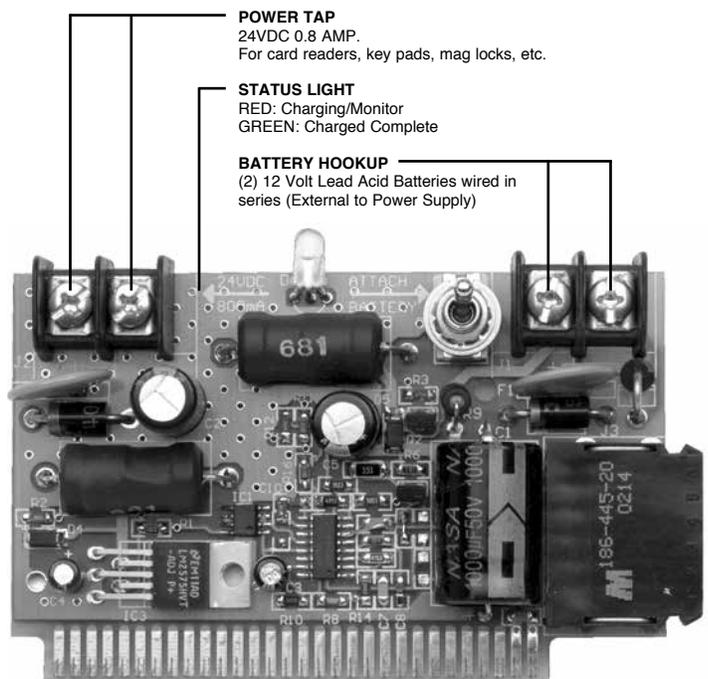


Battery Backup Power Tap

The BT150-07 Battery Backup is an optional card that can be installed in the ELR150 Series Power Supply to provide temporary power to ELR Devices in case of power shortage or outages. Uses (2) 12VDC Lead Acid batteries (furnished by others). One Amp hour set of batteries provides approximately 15 minutes of backup to four exit devices. 24V Power tap is also included to provide power to Card Readers, etc.

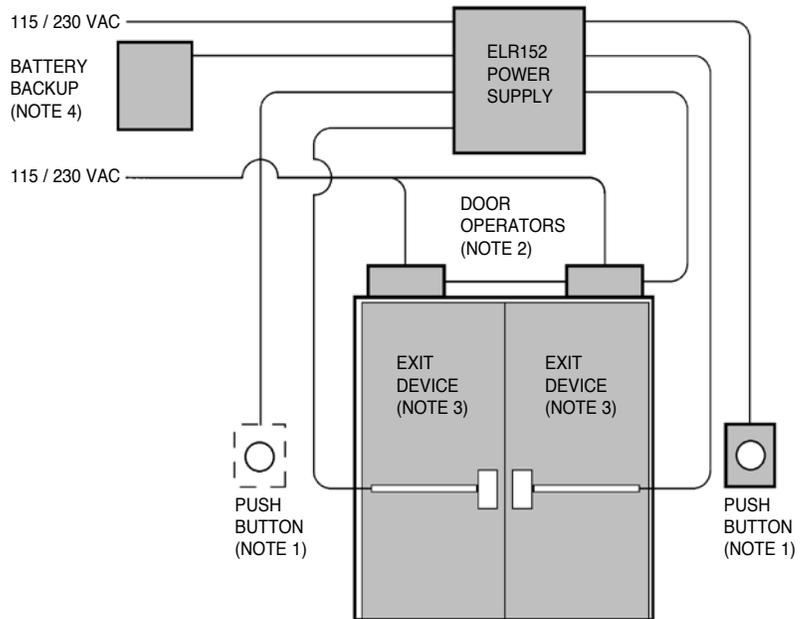
Electrical Ratings – 24 VDC, 0.8 Amp. - Power Tap

To Order: specify BT150-07



Simultaneous Pair of Doors

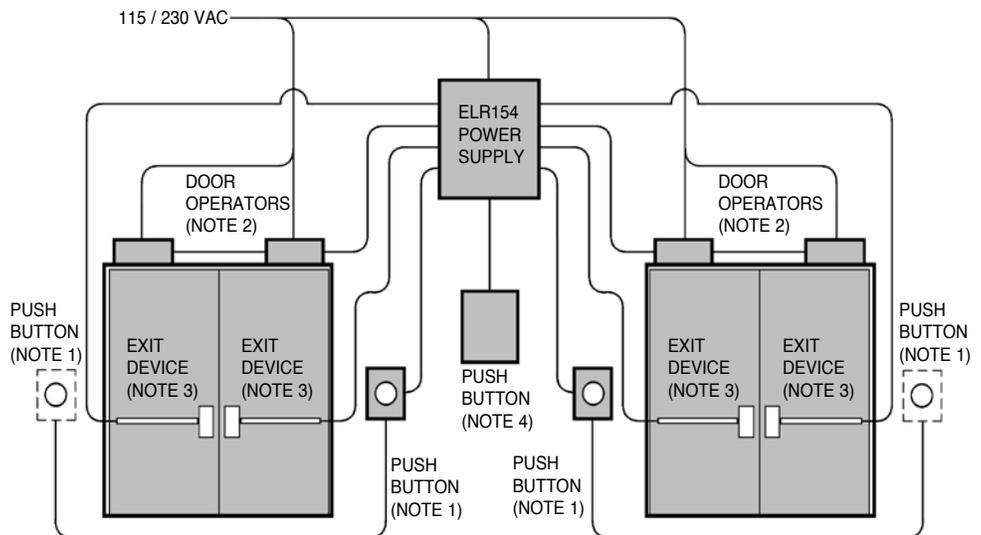
Pressing the push button retracts the latches on each exit device. When both exit devices have retracted latches, the control modules in the power supply signals the door operators to open the doors. The doors will remain open until released by the Time Delay feature on the Control Module.



4 CONDUCTOR (28 GAGE MIN.) POWER TRANSFER REQUIRED. EPT-5 CONCEALED POWER TRANSFER (see page 29), DOOR CORD OR HINGE (FURNISHED BY OTHERS)

Two Independent Pairs of Doors

Each pair of doors are operated by pressing a push button which retracts latch(es) on each exit device. When both exit devices have retracted latches the control modules in the power supply signal the door operators (such as the Precision D-4990 Low Energy Operator) to open the doors. The doors will remain open until released by the Time Delay feature on the Control Module.



4 CONDUCTOR (28 GAGE MIN.) POWER TRANSFER REQUIRED. EPT-5 CONCEALED POWER TRANSFER (see page 29), DOOR CORD OR HINGE (FURNISHED BY OTHERS)

Notes:

1. Push Button may be replaced with Card Reader, keypad, etc., providing normally open contacts and/or voltage inputs. See hookup instructions in the ELR150 Installation Instructions.
2. Activation for Door Operators are provided by dry contact on the Control Module. (2) wires must be run from the Power Supply to each operator requiring control.
3. Each exit device requires (4) wires to operate. See chart to the right for proper gage and wire run.
4. When Battery Backup is used, (2) 12 gage wires, less than 3 feet long, connect batteries to Backup. Batteries must be mounted outside the power supply enclosure. Battery Backup has a Power Tap feature that can provide power to a Card Reader, keypad system, etc. See page 22 for details.

Wire Gage	Maximum Wire Run for 22 Gage Power Transfer	Maximum Wire Run for 28 Gage Power Transfer
16	75' - 0"	55' - 0"
14	125' - 0"	75' - 0"
12	200' - 0"	---