

Overview

The Echoflex Emergency Lighting Circuit Transfer Switch (ELCTR) is designed to automatically switch a single 20A, 120V or 277V lighting load from a normal power source to an emergency power source when there is a power failure or other emergency situation present.

The Emergency Lighting Circuit Transfer Switch is a device that can be used for any emergency lighting application that requires UL1008 emergency transfer of a branch circuit.

Finished in a fine-textured, scratch resistant epoxy paint, the ELCTR is wall mounted with conduit entry via the top, bottom or right side

When normal power is lost with the presence of an emergency source, the normal source is disconnected from the load and the emergency source is connected to the load.

The ELCTR switches hot (line) and neutral conductors and is electrically interlocked to ensure normal power is fully disconnected before emergency power is applied with mechanically maintained (held) contactor.

When normal power is restored, the emergency source is disconnected from the load and normal source is connected to the load.

The ELCTR monitors voltage on normal feed branch circuit.

The emergency state control priority is:

- 1 – Power Failure
- 2 – Fire Alarm/contact activation

The ELCTR has front panel status indicators for Normal Power (green) and Emergency Power (red).

Other features include a fire alarm dry contact input, which can be set for normally open or normally closed operation and an auxiliary relay for 0–10V or Digital Addressable Lighting Interface (DALI) control signals.



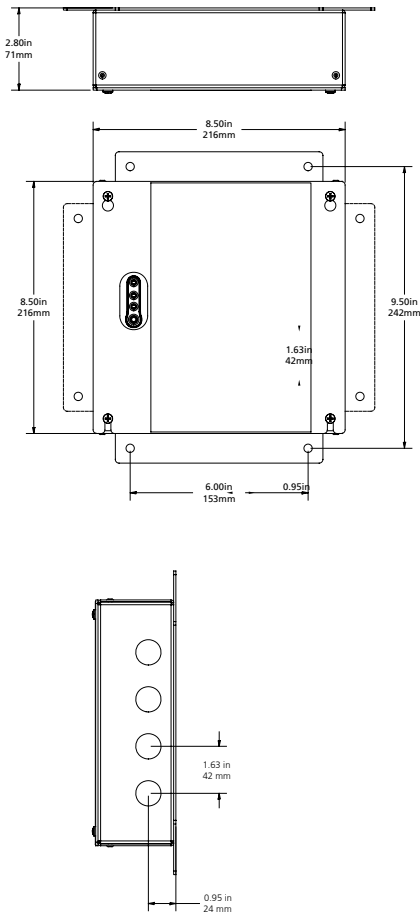
Features

- UL1008 listed for NEC 700, 701 emergency lighting applications
- Single 120-277V, 20A power input
- Interlocked break-before-make relays
- Control bypass relay for 0-10V or DALI controlled circuits
- Continuous monitoring of normal and emergency power
- Field-selectable normally open (NO) or normally closed (NC) dry contact fire alarm input
- Convenient and clearly marked contractor terminations
- NEMA 1 rated enclosure
- A front panel accessible Laser Test, enabling remote testing with the use of a laser pointer
- A front panel accessible push-and-hold Test Switch
- Front panel status indicators for Normal Power (green) and Emergency Power (red)

Ordering Information

Description	Model #	Part #
Emergency Lighting Circuit Transfer Switch - 120-277VAC	ELCTR-20-1P	7180A1220

Dimensional Diagram



Electrical Specifications

Power Supply	Single phase 120-277 VAC circuit, up to 20 Amps
Normal Feed Input	<ul style="list-style-type: none"> Additional terminals provided for constant normal power sense feed when circuit is fed by a dimmer or controlled circuit Terminals sized for 10-18 AWG wire Circuit fed from a remote panel (supplied by others)
Emergency Source Feed Input	Circuit fed from a remote breaker panel (supplied by others)
Short Circuit Protection	<ul style="list-style-type: none"> Class G Short Circuit Current Rating (SCCR) protection rated for 10,000 Amps RMS symmetrical Rated for a continuous load <ul style="list-style-type: none"> - 2400W per circuit at 120V - 5440W per circuit at 277V Fuse protection to allow listed use with any circuit breaker brand Current protection located on load side of contactor, and protects both normal and emergency source feeds
Fire Alarm Input	<ul style="list-style-type: none"> Field configurable normally closed (NC) or normally open (NO) dry contact input Input terminals accept 10–20 AWG class 2 connection from alarm panel Up to ten ELCTR can be wired in series to a single contact relay Maximum total wire length between contact relay and ELCTR units is 1,000 feet (300m)
User Controls	Front panel local control includes a test button, laser test sensor, and 2 LED status indicators for presence of normal and emergency power

Mechanical Specifications

Enclosure	NEMA 1 rated steel enclosure
Weight	2.8 kg (6.2 lbs.)
Operating Temperature	0°C to 40°C (32°F to 104°F) ambient
Relative Humidity	5%–95% RH (non-condensing)
Dimensions	216 x 267 x 70 mm (8.5 x 10.5 x 2.75 ")
Mounting	<ul style="list-style-type: none"> Wall mount unit with adjustable mounting plate Front access to wiring space for easy contractor connections – clearly marked termination strips Conduit entry via top, bottom, or right side (see manual)

Agency Listing & Compliance

- ANSI/UL 1008 Listed Branch Circuit Emergency Lighting Transfer Switch (BCELTS) / Automatic Transfer Switch for use in emergency systems
- Category code WPWR- UL File E157852
- Complies with Standard CSA C22.2 No. 178 TRANSFER SWITCH EQUIPMENT
- Complies with ANSI/NFPA 110, Standard for Emergency and Standby Power Systems



Satisfies requirements of the National Electric Code (NFPA 70):

- Article 700 – Emergency Systems
- Article 701 – Legally Required Standby Systems
- Article 702 – Optional Standby Systems
- Section 518.3C – Assembly Occupancies

Specifications are subject to change without notification.