

PROJECT NAME:	APPROVED BY:
CATALOG NO:	TYPE NO:

ELCD 1008

Evenlite's emergency lighting control device ELCD 1008 is a UL-listed, Branch Circuit Emergency Lighting Transfer Switch (BCELTs) which transfers AC power between two non-synchronous power sources (emergency and normal) to the emergency lighting loads. Coupled with our comprehensive line of emergency lighting inverters, the ELCD 1008 can help turn any lighting fixture into a life-saving emergency egress light source. It is particularly suited for use with line-voltage dimming but can handle all types of lighting loads including 0-10V/DALI dimming with its built-in, auxiliary, low voltage relay, and is fully compliant with the latest 2017 version of the National Electrical Code Article 700. A durable, rugged steel enclosure with a powder-coated finish, coupled with cuttingedge technology and flexible installation features, all combine to make the ELCD 1008 a superior choice above other lighting control devices.

Construction

- 16 gauge (0.060") cold-rolled steel enclosure with textured, powder-coated finish
- 7/8" electrical knock-outs (EKOs) provided on three sides for conduit entry
- Rotatable cabinet with dual-sided, silk-screened panel allows for flexible conduit placement
- PCB-mounted barrier blocks allow for up to 10 AWG wires
- Modular design allows easy removal for field upgrades or servicing

Electrical

- 120 – 277VAC universal input/output voltage
- 20 amp rating for tungsten, incandescent, ballast/LED driver
- Fire alarm interface with normally-open or normally-closed contact closure
- Dimming control interface compatible with 0-10V/DALI
- Latching relay design significantly reduces power consumption
- Short circuit withstand capability of 10kA
- Two internal 30A fuses provide added protection for emergency and normal power circuits.

ORDERING GUIDE – ELCD 1008

Model	Operation
ELCD 1008	Includes 0-10V/Dali and fire alarm interface



Mechanical

- Size: 9.0" W x 9.5" H x 2.75" D
- Weight: 5.85 lbs.
- Color: Powder painted finish - charcoal gray cabinet (RAL 7016), light gray access plate (RAL 7035)
- Indicator LEDs: Normal power (green), Emergency power (red)
- User controls: Test button, remote laser test
- Mounting: Surface mount (can be plenum mounted)
- Environment: 0-40°C

Warranty

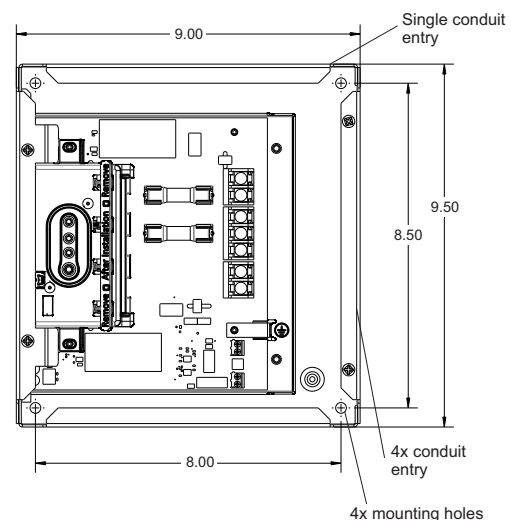
- Three-year limited warranty

Compliance

- UL listed to UL 1008 standard for safety transfer switch equipment BCELTs
- cUL listed to CSA C22.2 emergency transfer switch equipment
- UL listed to UL 2043 for plenum-rated products

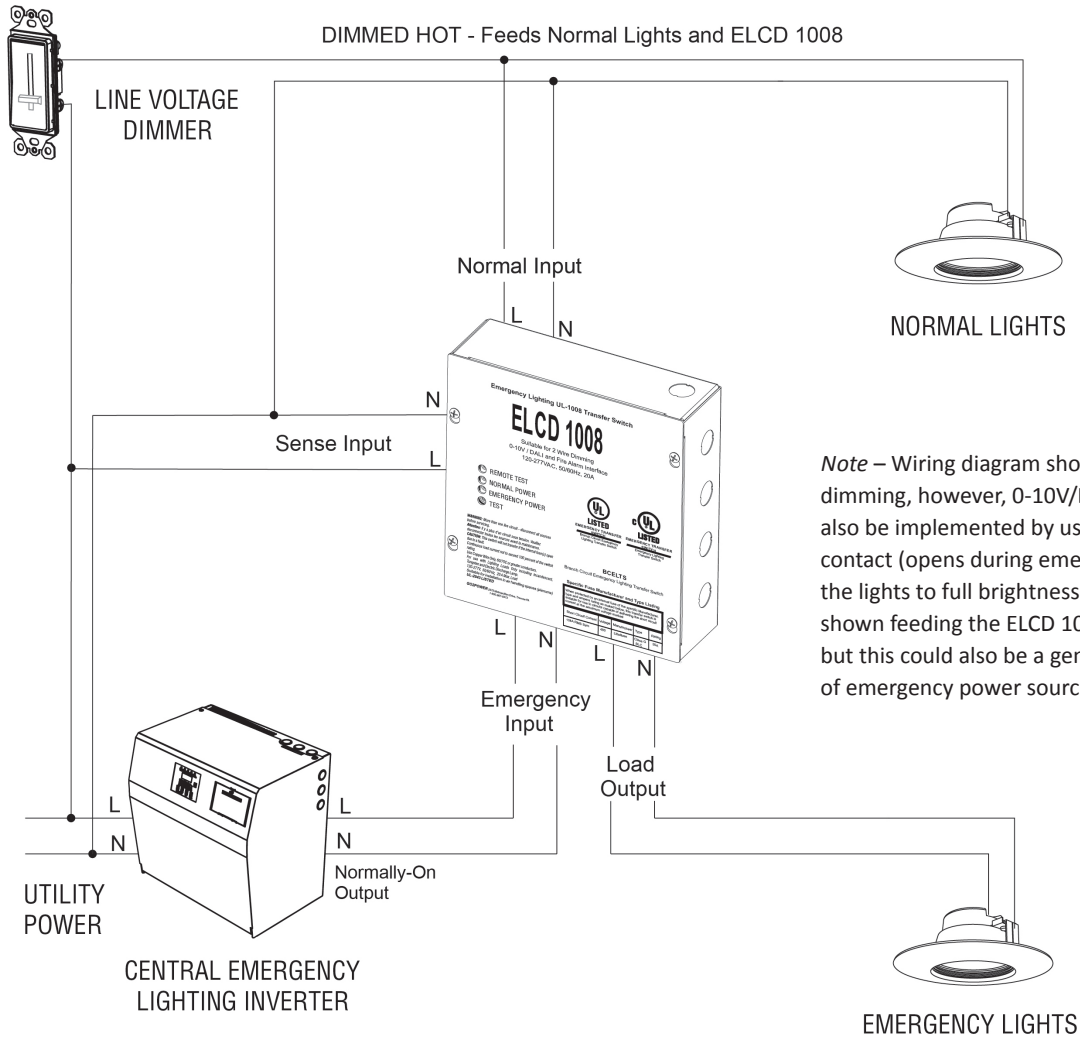


ELCD 1008 OUTLINE DRAWING



ELCD 1008

ELCD 1008 WIRING DIAGRAM



Note – Wiring diagram shows line-voltage dimming, however, 0-10V/DALI dimming can also be implemented by using the auxiliary contact (opens during emergency mode bringing the lights to full brightness). A central inverter is shown feeding the ELCD 1008 emergency input but this could also be a generator or other type of emergency power source.

Operation:

There are two basic modes of operation for the ELCD 1008 – normal and emergency mode.

During normal mode (sense input present), emergency lights and normal lights can be turned On/Off or line-voltage dimmed using the normal input. As long as the sense input power is present, the normal input feeds directly to the load output through the ELCD 1008 (see Fig.1)

When the ELCD 1008 detects a loss of power at the sense input, load output power is automatically transferred from the normal input to the emergency input entering the emergency mode of operation (see Fig. 2). With full line voltage present at the emergency input from the emergency power source, the lights will be brought up to full brightness.

Figure 1 - Sense Input present*



Figure 2 - Sense Input not present*



** Simplified drawing – actual circuit breaks line and neutral connections (DPDT)*