

# ELCD 1008

## UL1008 Transfer Device

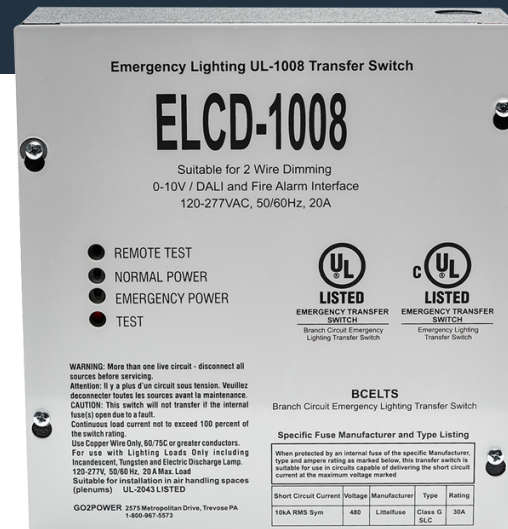
Step into the next generation of emergency lighting control with Evenlite's ELCD 1008—a UL-listed Branch Circuit Emergency Lighting Transfer Switch (BCELTs) engineered to deliver seamless, reliable performance when it matters most. Designed to transfer AC power between two non-synchronous sources—emergency and normal—the ELCD 1008 ensures your emergency lighting loads stay illuminated without interruption. When paired with our comprehensive line of emergency lighting inverters, it transforms virtually any lighting fixture into a lifesaving egress light source. Optimized for line-voltage dimming yet versatile enough to handle all lighting loads, the ELCD 1008 offers 0–10V/DALI dimming pass-through with a field-adjustable rotary selector (10%, 20%, 40%, 60%, 80%, 100%) for automatic load reduction in emergency mode. Fully compliant with the latest NEC 2017 Article 700, it combines a rugged, powder-coated steel enclosure with cutting-edge control technology and flexible installation features—delivering unmatched durability, compliance, and performance. When safety, efficiency, and reliability are non-negotiable, the ELCD 1008 stands above the rest.

### 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 12–24V AC/DC Fire Alarm Input
- Dimming control interface compatible with 0–10V/DALI
- Field selectable 0–10V dimmable zone in emergency operation
- Field Selectable Transfer Delay from 1 second to 15 minutes
- Field-programmable 0–10V dimmable emergency zone with six user-selectable preset levels: 10%, 20%, 40%, 60%, 80%, 100%; supports full-range dimming from 10% to 100%
- Latching relay design significantly reduces power consumption
- Short circuit withstand capability of 10kA
- Two internal 20A fuses provide added protection for emergency and normal power circuits.



- 0–10V or Digital Addressable Lighting Interface (DALI) passthrough in normal operation
- Line Voltage dimming passthrough in normal operation

### MECHANICAL

- Size: 9.0"W x 9.5"H x 3"D
- Weight: 5.85 lbs.
- Color: Powder painted finish – charcoal gray cabinet (RAL 7016), light gray access plate (RAL 7035)
- Indicator LEDs: System Fault (Blinking Red), Utility Power (Green), Emergency Power (Steady Red & Steady Green), Test
- User controls: Test button, remote laser test
- Mounting: Surface mount
- Environment: 0–40°C

### CERTIFICATION

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

### WARRANTY

- 5-year limited warranty – view complete warranty terms online at [www.evenlite.com/terms-warranty](http://www.evenlite.com/terms-warranty).

**ORDERING GUIDE**

ELCD1008

MODEL	
<b>ELCD 1008</b>	Includes 0-10V/DALI and fire alarm interface

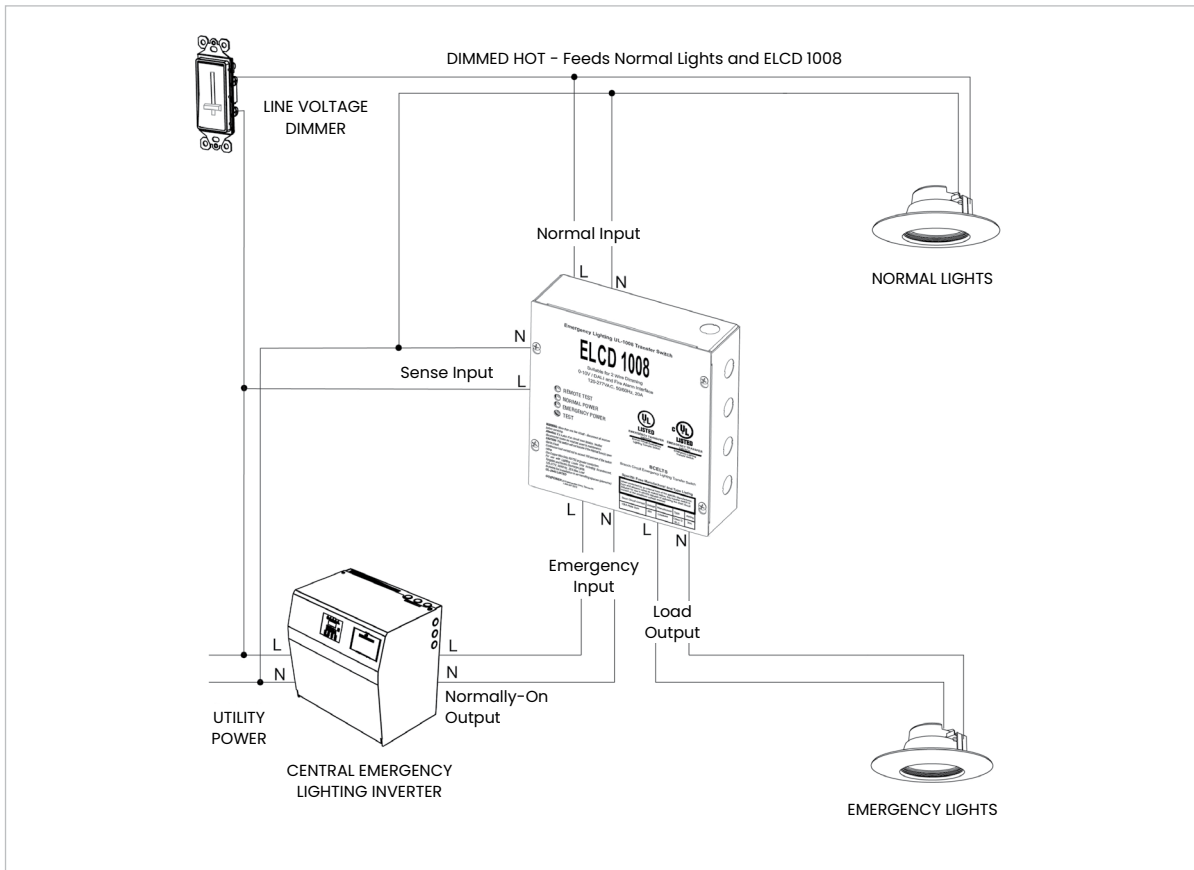
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**WIRING DIAGRAM**

Wiring Diagram 1 shows line-voltage dimming, however, 0-10V/DALI dimming can also be implemented by using the 0-10V Dimming 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.

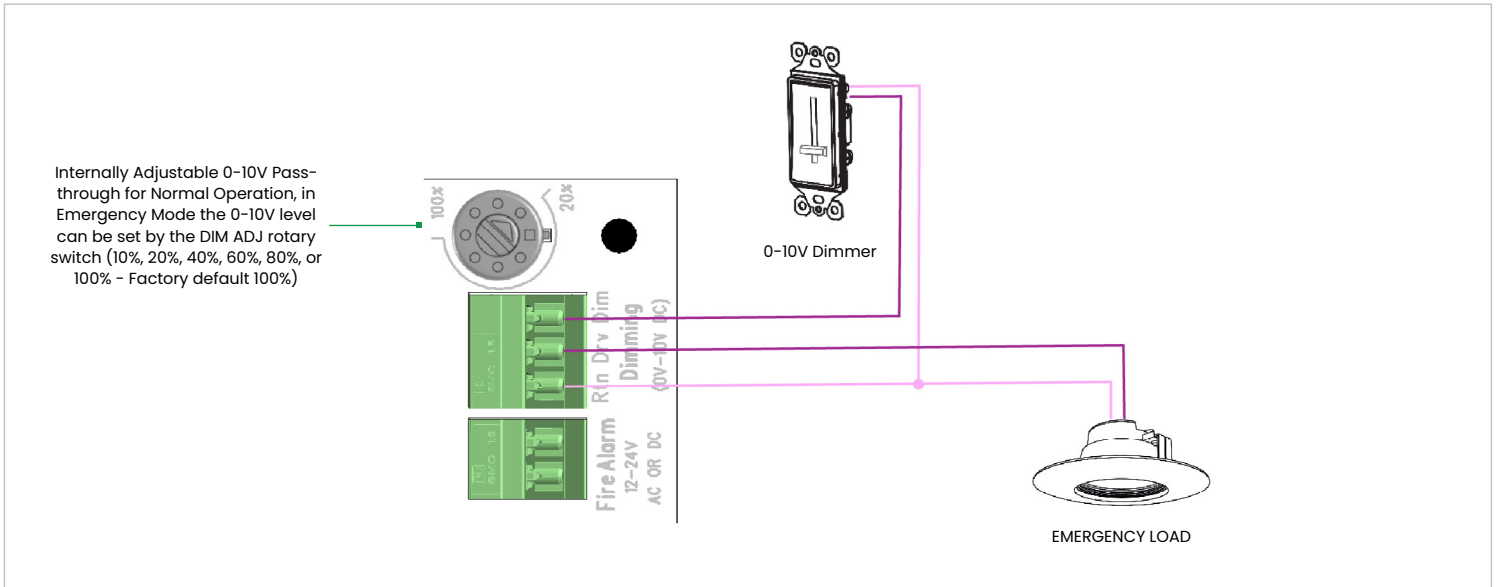
**DIAGRAM 1**



**WIRING DIAGRAM**

Wiring Diagram 2 shows the capability of the ELCD 1008 with 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 or the user preset level). There are 6 user presets which can be changed by rotating the DIM ADJ either clockwise (CW) for brighter and counterclockwise (CCW) for dimmer. The furthest CW rotation is an Open Circuit or 100% light level, and the furthest CCW rotation is about 1V or 10%. The User Presets are current dependent, which means that the values will change depending upon how much current the Dimmer Module has to sink.

**DIAGRAM 2**



**NOTE:** The Internally Adjustable Emergency 0-10V level can be used without 0-10V dimming in Normal AC mode.

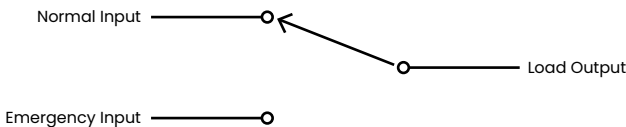
**OPERATION**

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

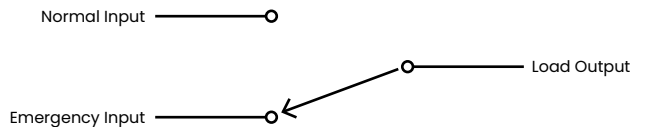
During normal mode (sense input present), emergency lights and normal lights can be turned On/Off or line-voltage dimmed using the normal input. As long as the sense input power is present, the normal input feeds directly to the load output through the ELCD 1008 (see Fig.1)

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\***

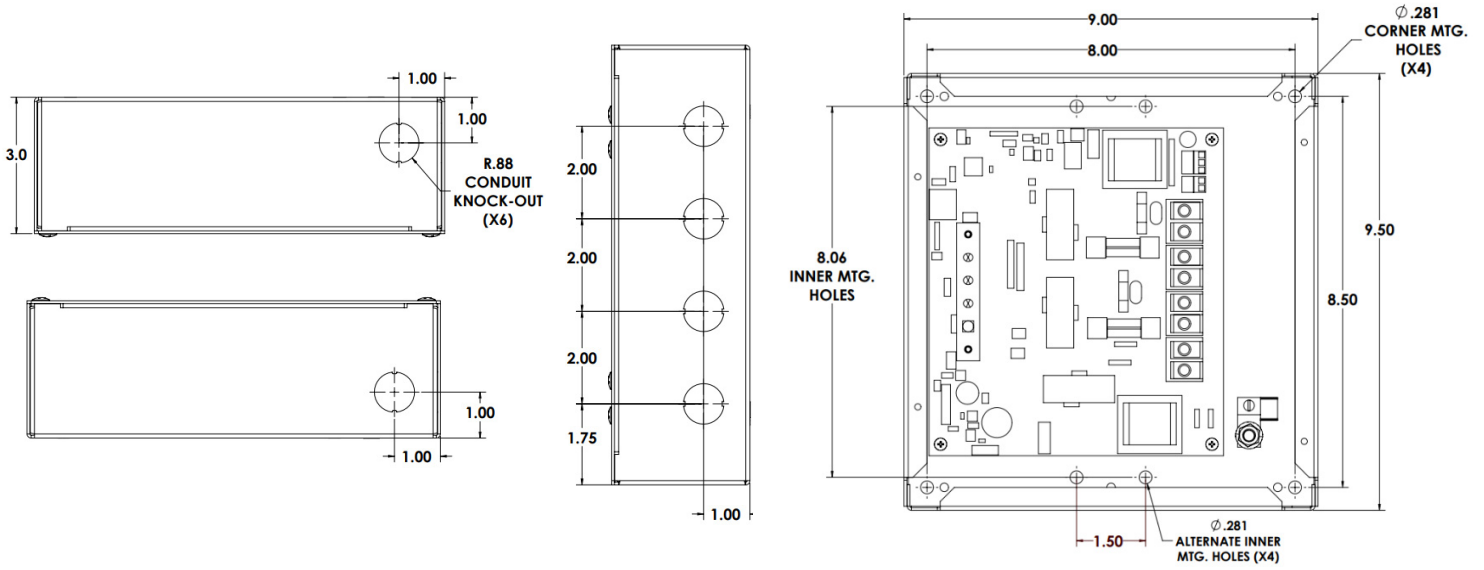


**FIGURE 2 – SENSE INPUT NOT PRESENT\***



\*Simplified Drawing: Actual circuit breaks line and neutral connection (DPDT)

**OUTLINE DRAWING**



**BACK PLATE EXPLODED VIEW**

