

**Description:**

The EMERGENCY LIGHT CONTROL RELAY (ELCR) Z10 is a Remote Mounted Emergency lighting shunt device. It is designed to allow switching of designated 0-10 volt dimming emergency lighting fixtures. The ELCR - Z10 contains digital circuitry to safely bypass and shunt switches and relays, forcing light fixtures full on, in the event of a power failure thus providing the emergency lighting power access to alternate power systems such as generators and central inverters.

**Features:**

Unit is designed to override switches and dimming levels to force emergency lighting on full bright in case of normal utility power failure per UL 924 requirements.

Unit recess mounts into the ceiling using a standard 4 11/16" square junction box (not included) and standard 2 gang plaster ring.

**Unit Housing and faceplate are metal.**

Faceplate is white and the unit is mounted to 1" plaster ring with 4 included screws.

**MADE IN AMERICA.**

**Electrical:**

Unit carries a full **20 amp** rating for incandescent, fluorescent - magnetic and electronic ballasts, and LED lighting power supplies. 1200 watts incandescent Maximum Load Recommended.

- Sense input: 120V AC or 277v AC with less than 20 ma current draw.
- Room switch input: 120V AC or 277v AC with less than 10 ma current draw.
- Emergency power input: 120V AC or 277v AC
- Output voltage: Same voltage as the emergency power input.
- Load ratings are as follows: 20 AMPS (NEVER LOAD BREAKER ABOVE 16 AMPS)
- Load Ratings-Auxiliary Relay: 30 volts DC, 6 amps max Normally open relay

**Dual voltage rated for 120v or 277v—Sense Line (Normal Breaker Hot) is voltage specific and must be specified when ordering—120v or 277v.**

Operating Temperature: 32°F to 140°F

Normal and emergency power do not have to be of the same phase.

4 separate LED status indicators (NEC 700-7).

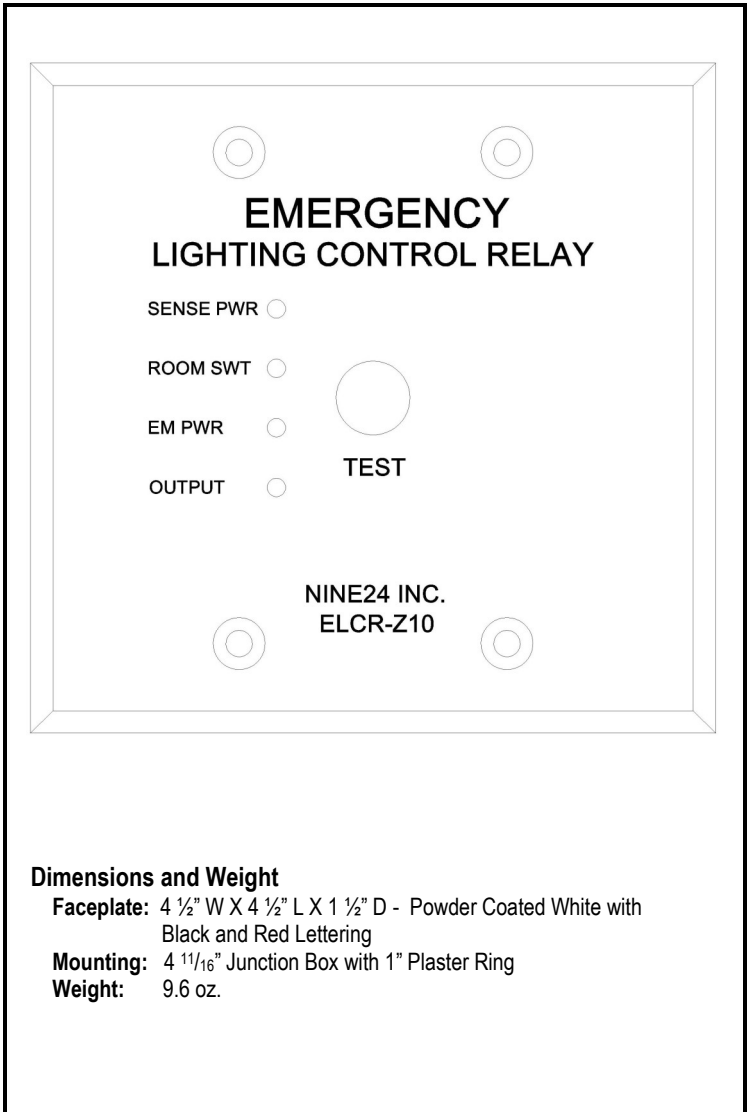
Exposed test switch for local inspection. (NEC 700-4)

Meets requirement of NEC 700-B,C

ETL 924 listed, dated August 12, 2012

Warranty: Limited 3 year product replacement warranty

**Specification-Grade Emergency Lighting Control For Switched Emergency Circuits with 0 to 10v dimmer line auxiliary contact adder**



**Dimensions and Weight**

**Faceplate:** 4 1/2" W X 4 1/2" L X 1 1/2" D - Powder Coated White with Black and Red Lettering

**Mounting:** 4 11/16" Junction Box with 1" Plaster Ring

**Weight:** 9.6 oz.

**Fire Alarm and Security System Interface option:**

In the event of an emergency condition (fire, storm, security breach, etc.) or alarm testing, the "FAI-120" and "FAI-277" option causes the ELCR - Z10 units to illuminate the emergency lighting through the opening of a N.C. 24V contact in the building fire alarm or security system. The ELCR - Z10 will energize the emergency lighting fixtures during a loss of normal power no matter what the state of the fire alarm or security system. Requires (2) 18ga LV wires to the nearest fire alarm panel where the N.C. 24v contacts are located. Each "FAI" has a current draw of 40ma. Wiring diagrams provided on separate cut sheet.

# WIRING DIAGRAM

**NOTE:** THE ELCR-Z10 DEVICE IS A MULTI VOLTAGE DEVICE. ALL INPUTS CAN BE OF DIFFERENT VOLTAGES AND ALL INPUTS ARE ISOLATED. THE OUTPUT OF THE DEVICE TO THE EMERGENCY FIXTURE WILL ALWAYS BE THE SAME VOLTAGE AS THE EMERGENCY POWER INPUT OF THIS DEVICE. THE SENSE (VOLTAGE SPECIFIC) AND ROOM SWITCH INPUTS ARE USED ONLY FOR MONITORING PURPOSES AND ARE ISOLATED BOTH HOT AND NEUTRAL FROM THE EMERGENCY POWER WHICH FEEDS THE FIXTURE.

