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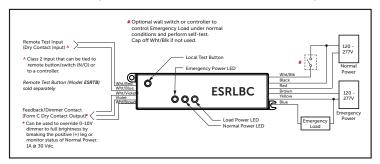
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UL924 / 5 AMP AUTOMATIC LOAD CONTROL RELAY

ESRLBC

UL924 Emergency Lighting Automatic Load Control Relay, 5 Amp SPST, Universal 120-277 Vac, 0-10 Vdc Dimmer Override, Dry Contact Fire Alarm Interface, DALI Dimmable Loads, Daily Self Test









Ballast Size Housing



SPECIFICATIONS

Relays & Contact Type: One (1) SPST Continuous Duty Coil Expected Relay Life: 10 million cycles minimum mechanical

Operating Temperature: -30 to 140° F Operate Time: 18ms

LED: Green = Normal Power

Red = Emergency Power Yellow = Load Power

Dimensions: 1.40"H x 5.63"W x 1.00"D

 $\textbf{Housing Detail:} \ \ \text{See} \ \textbf{Housing F} \ \text{in housing guide for dimensions}$

Origin: Made of US and non-US parts

Wires: 16", 600V Rated

Approvals: UL Listed, UL924, C-UL, CE, RoHS **Gold Flash:** No

Override (Test Switch): No

Humidity Range: 5-95%(noncondensing)

Coil Current:

Normal Power = 38 mA max Emergency Power = 88 mA max

Coil Voltage Input:

Emergency Input: 120-277 Vac (50/60 Hz) Normal Input: 120-277 Vac (50/60 Hz)

Relay Contact Ratings:

5 Amp Electronic/LED Ballast @ 277 Vac 5 Amp Ballast @ 120-277 Vac

Feedback/Dimmer Override Contact:

1Amp Resistive @ 30 Vdc

TESTING

Apply Emergency Power to the Emergency Power Input and Normal Power to the Normal Power Input. (If using the Wall Switch Input [Wht/Blk wire], apply Normal Power to the switch also, but keep the switch OFF/OPEN.)

- a. The Red LED (Emergency Power available) should be ON.
- b. The Green LED (Normal Power available) should be ON.
- c. The Yellow LED (Load Status) should be OFF.
- d. The Load should be OFF.

Initial Test for Correct Wiring

e. The N/O Feedback/Dimmer Contact should be CLOSED.

ocal Test Button

- 1. Turn wall switch OFF. Emergency light should be OFF.
- 2. Press and hold "Local Test Button"
- 3. Emergency light should turn ON.
- 4. Release "Local Test Button" and emergency light should turn OFF.

Remote Test Button (Model ESRTB - sold separately)

- 1. Turn wall switch OFF. Emergency light should be OFF.
- 2. Press and hold "Remote Test Button"
- 3. Emergency light should turn ON.
- ${\bf 4.\,Release\, "Remote\, Test\,\, Button"\, and\, emergency\, light \, should\, turn\,\, OFF.}$

Wall Switch or Controller Contact

- 1. Turn ON switch if not already on.
- 2. Emergency light should turn ON.
- 3. Turn wall switch OFF.
- 4. Emergency light will remain on for two seconds before turning OFF.

AUTOMATIC LOAD CONTROL RELAYS & DIMMING OVERRIDE APPLICATION

With our Automatic Load Control Relays (ALCR), you will complete your emergency lighting application as specified. Designed specifically for applications that require emergency load to be switched during a loss of normal power, creating a path to illuminate your emergency fixture.

TROUBLESHOOTING

CONDITION	ACTION
Red LED is OFF	Check Emergency Power Input wiring (BROWN and YELLOW wires) and voltage.
Green LED is OFF	Check Normal Power Input wiring (BLACK and RED wires) and voltage.
Yellow LED is ON but Load is OFF	 Check Load wiring (BLUE wire and Load's neutral). Verify Load's operating voltage is the same as the Emergency Power Input Voltage. Check bulbs and ballast. Replace unit.
Load is ON but Yellow LED is OFF	Replace unit.
Yellow LED and Load do not turn on when being tested	 Check bulbs and ballast. Check wiring connections if using a remote test option. Press local test button on the unit. Replace unit.
Yellow LED and Load will not turn OFF	Verify status of Normal Power Input. Open Wall Switch Input. Verify that no test inputs are stuck closed. (i.e. Remote Test Input is not closed).