

GENERAL INFORMATION

The Automatic Load Control Relay (ALCR) is a UL 924 listed emergency device that is powered from an always-available normal/emergency source fed by an upstream emergency transfer switch. The ALCR provides power to emergency lighting load(s) by bypassing switches or other controls upon loss of utility power and ensuring a “lights on state” during loss of normal power while tracking the state of normal lighting loads during normal operation.

In the DIN rail mount model, the ALCR also includes a method of accomplishing the same emergency functionality for directly-controlled 0-10V fixtures or ballasts. An integral relay positively disconnects 0-10V control upon loss of utility power assuring a “lights-on” override for both line voltage and 0-10V controlled emergency fixtures.

APPLICATIONS

- Conference centers
- Hotels
- Dorms
- Office buildings
- Government buildings
- Restaurants
- Schools
- Houses of worship
- Theaters

FEATURES

- 120V and 277V power systems
- Automatically activates lighting upon loss of normal power
- Provides remote activation by dry contact closure for connection to a fire alarm or building management system
- Additional control output connection to activate 0-10V controlled fixtures
- Configurable “return-to-normal” delay of 0-15 minutes
- Simple installation; attaches to standard DIN rail for permanent installation
- Maintenance-free

ORDERING INFORMATION

Unison Aero® Relay Controller Sensor

MODEL	DESCRIPTION
ALCR-DIN	Automatic Load Control Relay (DIN)

SPECIFICATIONS

GENERAL

- UL 924 Listed
- UL 2043 plenum-rated

FUNCTIONAL

- Automatic control of emergency power output to fixture or single zone emergency lighting upon loss of normal power
- Supports fire alarm input activation of emergency power output
- Configurable return to normal delay settings of instant, 10 seconds, 30 seconds, 10 minutes, or 15 minutes
- Additional relay cuts 0-10V control loop for guaranteed full-on operation of 0-10V controlled fixtures

MECHANICAL

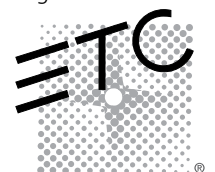
- DIN rail mount: 35mm; DIN43880 and EN60715 compliant
- Constructed of UL94 V-0 approved injection-molded ABS
- Remote and status LED's
- 2 buttons shall be available to select optional return to normal delay and output test

ELECTRICAL

- 120/277 VAC, 60Hz power input
- Normally closed (NC), 20A ballast, 10A tungsten
- 2 LEDs:
 - Status: Red for emergency active or Green for normal
 - Remote: Amber for state of normal control switch
- Terminal wire sizing: 10-18 AWG
- Remote activation switch can be located up to 1000 feet from ALCR

THERMAL

- Ambient room temperature: -10° to 45°C / 14° to 113°F
- Ambient humidity: 5 to 95% non-condensing



PHYSICAL

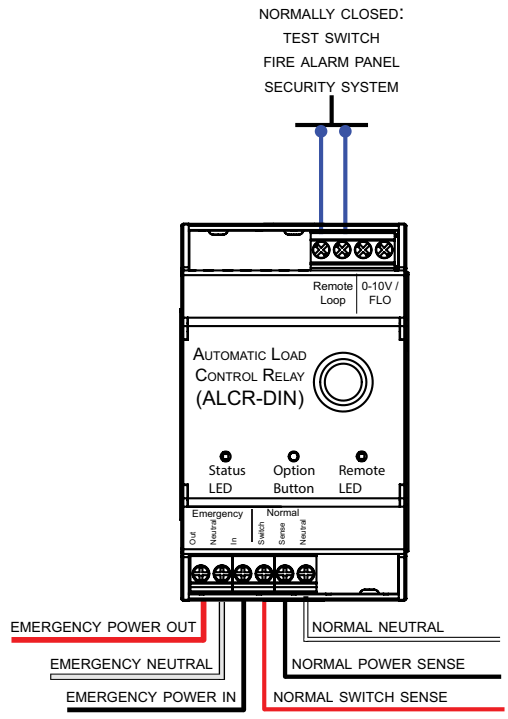
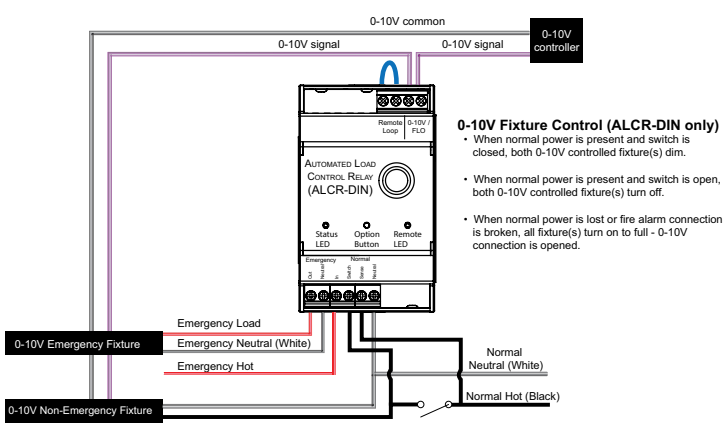
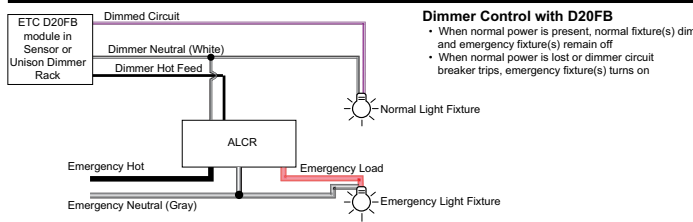
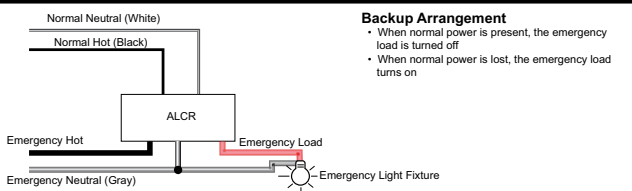
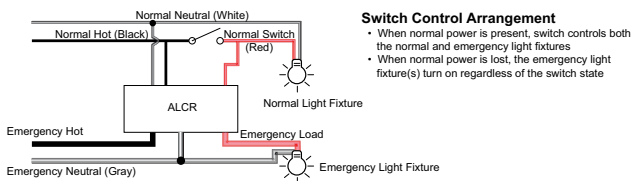
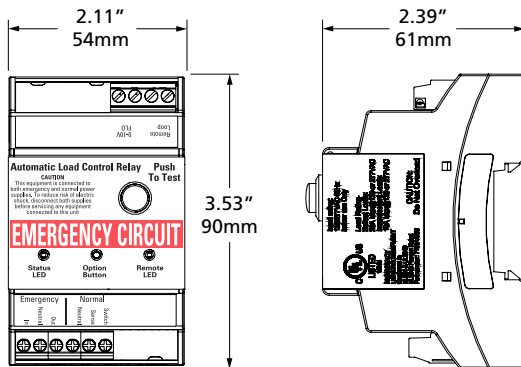
Unison Aero Relay® Controller Dimensions*

MODEL	HEIGHT		WIDTH		DEPTH	
	inches	mm	inches	mm	inches	mm
ALCR-DIN	2.39	61	3.53	90	2.11	54

Unison Aero Relay Controller Weights*

MODEL	WEIGHT		SHIPPING WEIGHT	
	ounces	grams	ounces	grams
ALCR-DIN	14.0	397	15.2	431

*Weights and dimensions typical



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