



ALCR-D20L

ALCR-D20L-PW

20 AMP EMERGENCY LIGHTING
CONTROL DEVICE

ALCR-D10L

ALCR-D10L-PW

10 AMP EMERGENCY LIGHTING
CONTROL DEVICE

INSTRUCTION MANUAL

IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed, including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. **CAUTION** – This fixture provides more than one power supply output source. To reduce the risk of electrical shock, disconnect both normal and emergency sources by turning off the AC branch circuits.
2. **CAUTION** – This is a sealed unit. Replace the entire unit when necessary.
3. **DO NOT USE OUTDOORS.** The ALCR-D20(10)L & ALCR-D20(10)L-PW are used with grounded, UL Listed, Indoor fixtures. Not for use in heated air outlet or hazardous locations.
4. Do not mount near gas or electric heaters.
5. The **ALCR-D20L (-PW) & ALCR-D10L (-PW)** should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel
6. The **ALCR-D20L (-PW)** is compatible with lighting loads wired on a **20A** (max.) circuit .
The **ALCR-D10L (-PW)** is compatible with lighting loads wired on a **10A** (max.) circuit .
7. The **ALCR-D20L (-PW) & ALCR-D10 (-PW)** are for use in standard switching and 0-10 volt dimming applications, and NOT designed for use with 3-wire dimming or step dimming ballasts. The maximum current of the dimming circuit must not exceed 110 mA.
8. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
9. Do not use this equipment for other than intended use.
10. Install in accordance with the National Electrical Code and local regulations.
11. Installation and servicing should be performed by qualified personnel.
12. Lighting fixture manufacturers, electricians, and end-users need to ensure product system compatibility before final installation.

Save These Instructions



INSTALLATION INSTRUCTIONS

CAUTION: Before installing, make certain the AC power is off for both normal and emergency circuits.

1a. MOUNTING THE ALCR-D20L & ALCR-D10L (Illustration 1)

Integral- inside luminaire—Remove the driver channel cover. Mount in the ballast/driver channel at least 1/2" away from the AC driver(s).

1b. MOUNTING THE ALCR-D20L-PW & ALCR-D10L-PW (Illustration 2)

- Remove Junction Box lid and mount with threaded stud and feed lead wires through appropriate hole.
- Re-attach cover plate after wiring. Mount test switch in a visible location for testing. Note- PW version test switch assembly is plenum rated.

Illustration 1: Integral (No Flex) Mounting

ALCR-D20L & ALCR-D10L

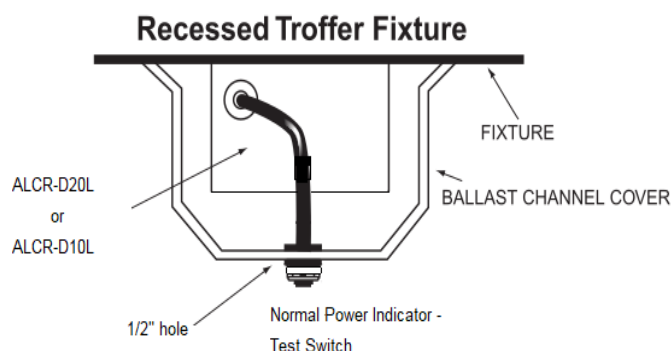
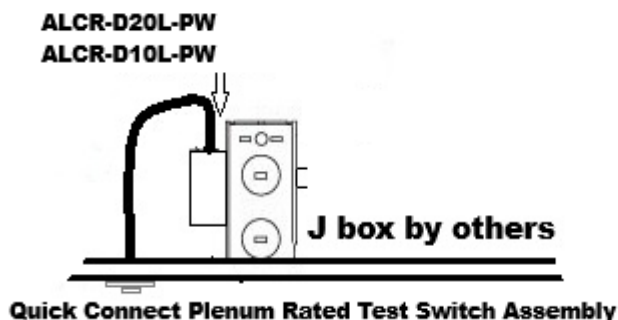


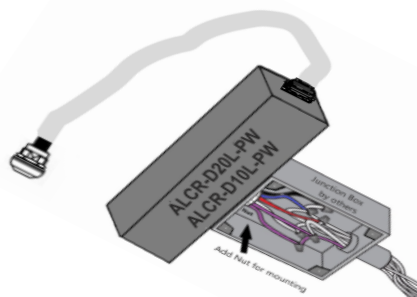
Illustration 2:

Threaded Stud mounting of
ALCR-D20L-PW and ALCR-D10L-PW
to Junction Box



2. WIRING

Refer to the wiring diagram on the back page. Install in accordance with the National Electrical Code and local regulations. For additional wiring diagrams consult Customer Service.



3. INSTALLING THE AC POWER INDICATOR/TEST SWITCH

Mount the supplied quick connect illuminated test switch in a location that is visible and accessible by maintenance personnel. The switch mounts through a 1/2" hole which may need to be added to the luminaire or could come pre-punched by the luminaire supplier.

For the (-PW) models, Test switch assembly is plenum rated and no flex conduit is needed- unless specified by the local AHJ.

Wire the test switch - using the quick connects as provided.

If wired correctly, the test switch indicator light should be "ON" when normal AC power is supplied to the fixture. Pushing the test switch in normal power condition will turn on the emergency luminaire(s) whether the wall switch is on or off.

4. WIRING THE AC INPUT

Refer to wiring diagram on Page 4 for the proper wiring configurations. For wiring diagrams not shown, consult Customer Service.

OPERATION

Normal Mode – AC power is present. The AC driver or ballast operates the lamp(s) as intended. The closed dimming relay allows operation of the luminaire(s) at the desired setting of the connected 0-10 Vdc dimming signal (if provided).

Emergency Mode -Upon failure of normal AC (utility) power. The ALCR device senses the AC power failure and automatically closes an internal relay controlling the Emergency Luminaire (s) AC Driver/ Ballast, ensuring the flow of emergency power (inverter or generator) to the controlled emergency lighting load regardless of the wall switch's "on" / "off" / 0-10 Vdc dimmed" state. The ALCR Device dimming relay (violet and violet leads) contacts open and forces the emergency lighting load to operate at full lumen output regardless of the wall switch or dimmer setting. This light level will continue for the duration of the provided emergency or auxiliary power or until normal power is restored.

TESTING & MAINTENANCE

The ALCR Device is a maintenance free unit, however, periodic inspection and testing is required. NFPA 101, Life Safety Code, outlines the following schedule:

Insure that the **AC Indicator** light is illuminated monthly- push test switch to verify operation.

Note: Illuminated test switch for ALCR-D20L-PW and ALCR-D10L-PW is plenum rated.

Test by turning off normal power breaker feeding ALCR device.

"Written records of testing shall be kept by the owner for inspection by the authority having jurisdiction."

SERVICING SHOULD BE PERFORMED BY QUALIFIED PERSONNEL

TYPICAL WIRING DIAGRAMS

For wiring diagrams of ballast/drivers not shown, consult our Customer Service.

