

Emergency Power Dimmer Control with Automatic Diagnostic and Manual Test Features

for 4 wire dimmable loads (0-10V and low voltage digital dimming systems including DALI and others)
Cat. No. ECS00-30W



DI-003-ECS00-05B

WARNINGS

- **TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER AT CIRCUIT BREAKER OR FUSE AND TURN OFF POWER AT THE 24 HOUR NIGHT LIGHT/EMERGENCY CIRCUIT AND TEST THAT POWER IN BOTH CIRCUITS IS OFF BEFORE WIRING, SERVICING, OR REMOVING FIXTURE.** This fixture is powered by two (2) circuits: the regular power branch circuit and the 24 hour night light/emergency circuit.
- Install a self-adhesive 2" x 3" caution label in each fixture or load controlled by an ECS00-30W unit cautioning that this load is supplied from 2 different power sources, regular and emergency.

CAUTIONS

- In order to install device in accordance with national/local code requirements, this product should be installed by an electrician.
- Check voltage and current requirements.
- Use CU wire only.

INSTALLATION INSTRUCTIONS

ENGLISH

Description

The Leviton ECS00-30W saves maximum energy through dimming and still meets safety codes during power failure. It works with dimmers, photocells, occupancy sensors, 0-10V dimming controls and low voltage digital dimming.

Leviton emergency power controls are tested, approved and listed by Underwriters Laboratories under UL 924 standards for designated emergency light fixture controls. They meet and exceed all pertinent code requirements from NEC, NFPA, OSHA and life safety codes, in addition to major local codes. All units are tested during production and burned in upon completion.

Features

- **Active 1-10V digital override:** actively drives emergency loads to full bright during power interruption and testing, ensuring compliance with code and compatibility with all controls and loads without the need for an additional 20A branch transfer switch.
- **Selectable automatic testing features:** field-selectable 2.5 second automatic diagnostics checks emergency source, ECS00-30W driver and lamp(s). Eliminates manual monthly testing and is approved for this purpose. May also be configured for monthly testing only.
- **Integral test switch and LED status indicators:** integral test switch for easy initial footcandle verification. Power indicator LEDs verify wiring and simplify troubleshooting.
- **Power supervision redundancy:** emergency luminaire and red supervision LED will not illuminate if emergency supply is disconnected during normal operation. Provides immediate visible warnings.

ELECTRICAL SPECIFICATIONS

Unv Voltage	347V Sensing Input 347V Load
Load	15A Ballast Load (347V) 20A General Use (120-347V)
Voltage Surge Protection	

MECHANICAL SPECIFICATIONS

Flush Mounted Size	4.75" x 2.75" x 0.25"
Body Size	2.875" x 1.75" x 3.25"
Color	White
Weight	12 oz
Temperature	14°F - 140°F
UL94-5VA Rating	Safe for installation above suspended ceiling.
Suitable for installation in the plenum. (Tested to UL2043)	

Pre-Installation

WARNING: Install the self-adhesive 2" x 3" caution label (provided) in each fixture or load controlled by an ECS00-30W unit cautioning that this load is supplied from 2 different power sources, regular and emergency.

NOTE: Accessibility requirements limit the mounting of emergency controls to accessible areas for testing reasons, however the ECS00-30W automatic diagnostic exempts it from these requirements.

Installation

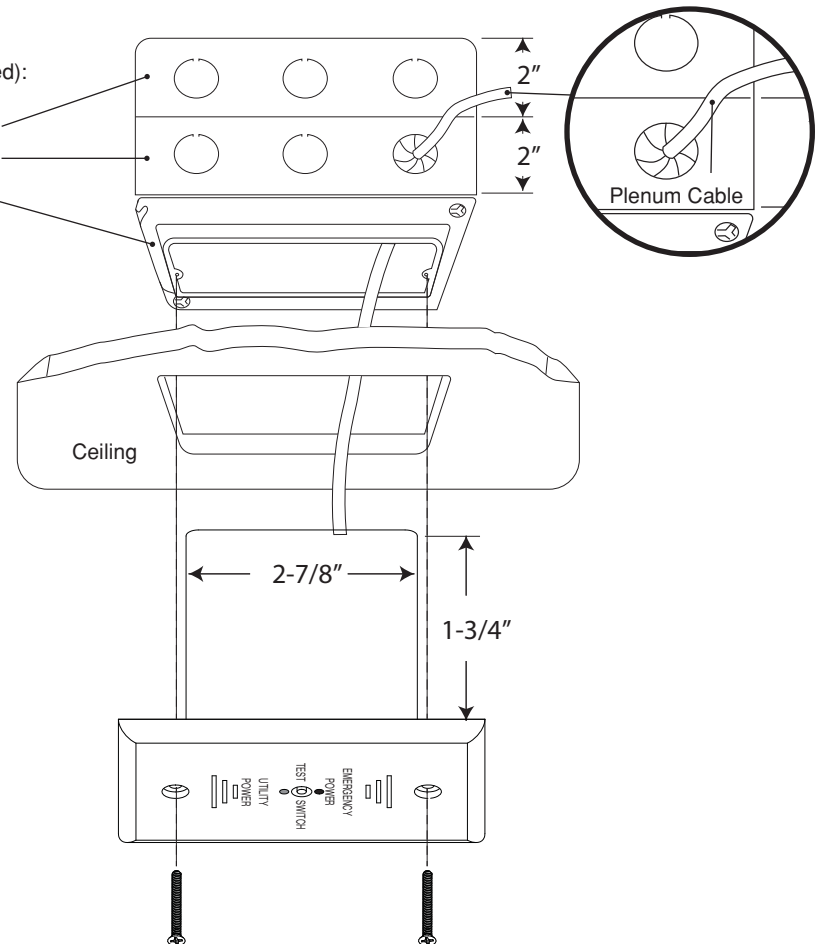
1. Mount dimmer control.

After the dimmer is installed, install red TEST SWITCH button cover and screw hole covers (provided).

Suggested (Not included):

- 4-11/16" back-up box
- 2-1/8" extension box
- 1/2" Single Gang Plaster Ring

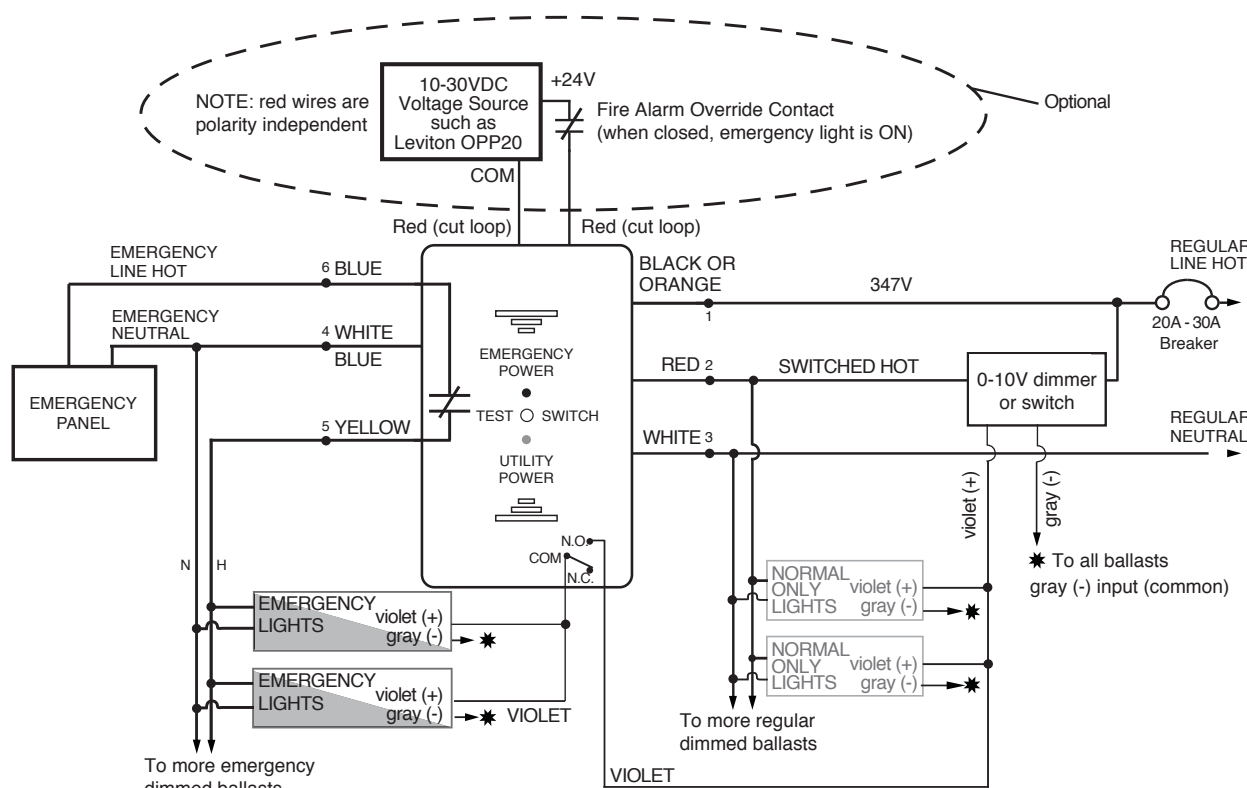
Can be mounted flush or above the suspended ceiling



2. Wire according to usage.

a. Wiring Method A (Typical): normal and emergency lighting on shared zone.

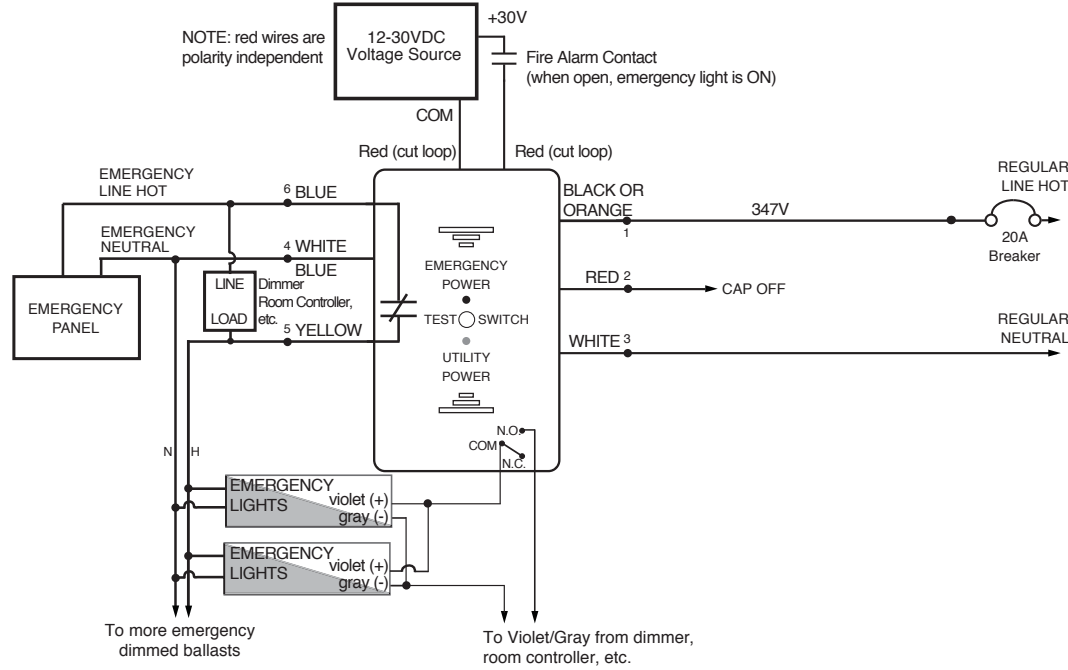
For applications where a dimmer, room controller or other lighting control is used to control normal and emergency lighting together on a shared zone. The ECS00 relay is used to bypass the control and turn the emergency lighting portion of the zone on at 100% brightness during loss of normal power.



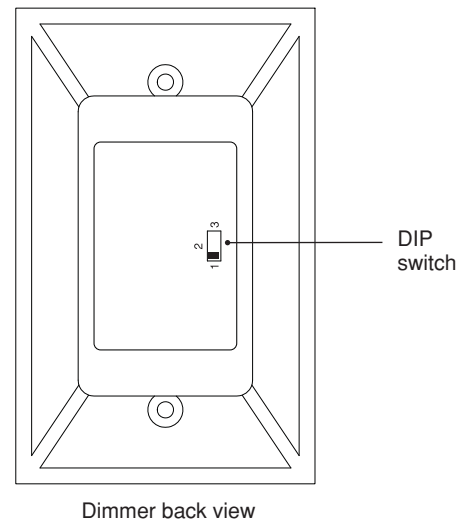
NOTE: Normal only lights are optional.

b. Wiring Method B (Shunt): emergency lighting on dedicated zone.

For applications where a dimmer, room controller or other lighting control is used to control emergency lighting only on a dedicated zone. The ECS00 relay is used to bypass the control and turn the entire zone on at 100% brightness during loss of normal power.



DIP SWITCH SETTINGS	
1 2 3	No Monthly/Annual Automatic Test No Automatic Diagnostic on switch turn off
1 2 3	No Monthly/Annual Automatic Test Yes Automatic Diagnostic on switch turn off
1 2 3	Yes Monthly/Annual Automatic Test No Automatic Diagnostic on switch turn off

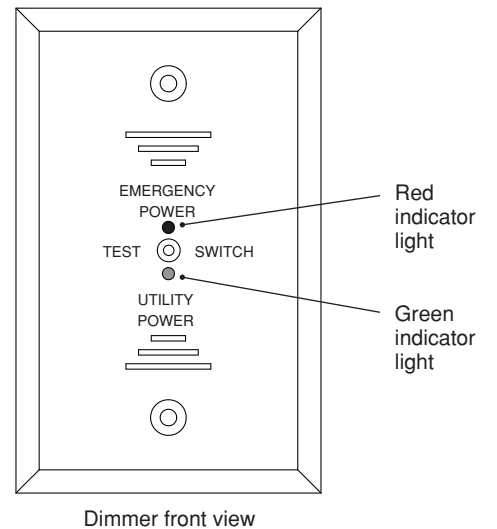


Initial Testing, Troubleshooting and Maintenance

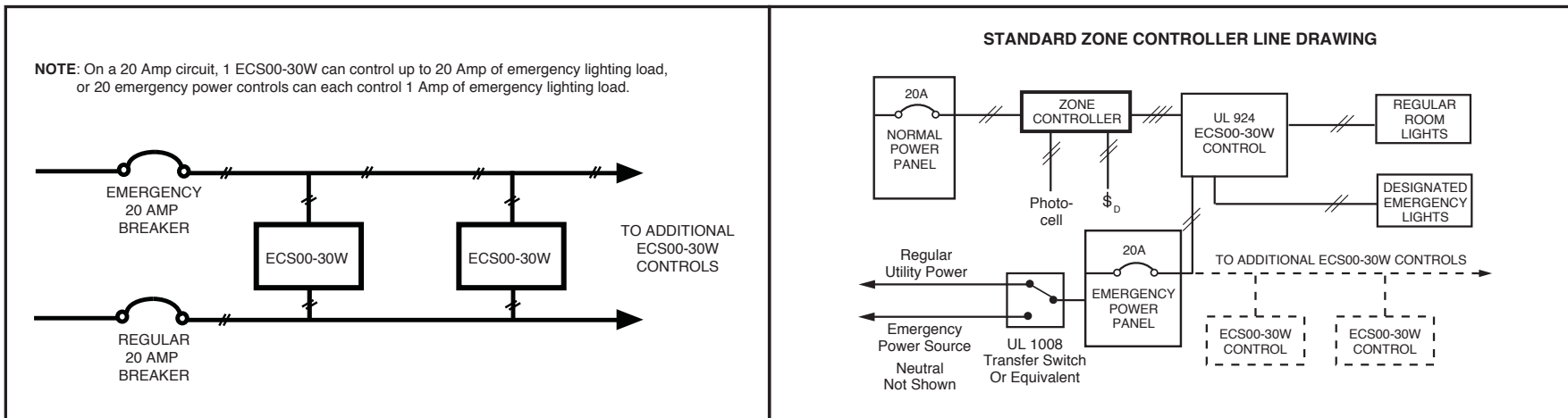
In a new installation, where 10 or 100 separate devices may be used, each having as many as 14 wires to be correctly connected, it is important that a fast, convenient method is used to check the connections. In order to test that the wires are connected correctly, without any inconvenience to other occupants, do not turn off regular utility supplied power or turn on the emergency generator until you have checked each device and light fixtures using the following methods.

- When room switch is on and dimmer is at full bright setting, emergency and regular fixtures should be illuminated at full bright.
- To test normal operation, ensure branch circuit breaker is connected and utility power is available. If green LED is not illuminated, confirm wiring connections and continuity to branch panels.
 - To test emergency operation, turn room switch to OFF position. Press and hold test button and ensure emergency lights are illuminated at full brightness. Depending on DIP switch setting, red LED may be on at all times or only sometimes--this is normal. (The default is that the red LED is on when emergency and regular power are both available and the red LED is off under other conditions).

No maintenance is required to keep the ECS00-30W functional. However, regular testing should be performed when the lamps or ballasts have been replaced or when facility remodeling has taken place.



Single Line Drawings



FCC COMPLIANCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Any changes or modifications not expressly approved by Leviton could void the user's authority to operate this equipment.

INDUSTRY CANADA COMPLIANCE STATEMENT

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

IMPORTANT! Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This Class A digital apparatus complies with Canadian ICES-003.

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FOR CANADA ONLY

For warranty information and/or product returns, residents of Canada should contact Leviton in writing at **Leviton Manufacturing of Canada ULC to the attention of the Quality Assurance Department, 165 Hymus Blvd, Pointe-Claire (Quebec), Canada H9R 1E9** or by telephone at **1 800 405-5320**.

LIMITED 5 YEAR WARRANTY AND EXCLUSIONS
Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Leviton is free of defects in materials and workmanship under normal and proper use for five years from the purchase date. Leviton's only obligation is to correct such defects by repair or replacement, at its option. For details visit www.leviton.com or call 1-800-824-3005. This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if this product is installed improperly or in an improper environment, overloaded, misused, opened, abused, or altered in any manner, or is not used under normal operating conditions or not in accordance with any labels or instructions. There are no other or implied warranties of any kind, including merchantability and fitness for a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any such implied warranty, including merchantability and fitness for a particular purpose, is limited to five years. Leviton is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to, or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

WEB VERSION