Description

The Leviton ECS00-DDW 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 0-10V 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.
• Dual selectable automatic testing features: patented 2.5 second, 30 day and 360 day automatic diagnostics checks emergency source, ECS00-DDW ballast and lamp(s). Eliminates manual monthly testing and is approved for this purpose.
• 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.

Pre-Installation

WARNING: Install the self-adhesive 2” x 3” caution label (provided) in each fixture or load controlled by an ECD00-DDW 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-DDW 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).

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. This 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.

   b. Wiring Method B: normal only lights are optional.

       - For regular lighting only.

       - To all ballasts

       - To more regular dimmed ballasts


ELECTRICAL SPECIFICATIONS

Unv Voltage 120V-277V Sensing Input 120V-277V Load
Amp Ballast Load Rating 12 Amp
Load 1500W Incandescent Load Rating at 120V
1000W Incandescent Load Rating at 277V
Voltage Surge Protection

MECHANICAL SPECIFICATIONS

Flush Mounted Size 4.75” x 2.75” x 0.25”
Body Size 8.75” x 1.75” x 3.25”
Color White
Weight 8 oz
Temperature 32°F - 140°F
UL94-SVRA Rating Safe for installation above suspended ceiling.

WARNING: In order to install device in accordance with national/local code requirements, this product should be installed by an electrician.

CAUTIONS

- Check voltage and current requirements.
- Use CU wire only.
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.

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 such 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 brightness. Depending on DIP switch setting, red LED may be on 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-DDW 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

NOTE: On a 20 Amp circuit, 1 ECS00-DDW can control up to 20 Amp of emergency lighting load,
or 20 emergency power controls can each control 1 Amp of emergency lighting load.

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.

This Class A digital apparatus complies with Industry Canada's ICES-003 standard.

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.