Description
The Leviton ECD00-DOW is for designated dimmable emergency luminaires in public places such as auditoriums, restaurants, conference rooms, theaters and classrooms. It is a single zone silent transfer switch for emergency lighting applications. Versatile, small and cost-effective, and designed to work with all modern dimming types including 2 wire and 3 wire line voltage, and 4 wire 0-10V and DALI low voltage. The ECD00-DOW allows emergency and normal lighting to be dimmed from the same dimmer during normal operation. During emergency operation (power interruption), it will transfer the emergency lighting to the emergency power source and bypass all dimming controls, bringing the emergency lighting to 100% (full) brightness, regardless of dimmer level. An integral test switch on the front cover allows the user to simulate a power interruption when pressed. Leviton emergency power controls are tested, approved and listed by Underwriters Laboratories under UL 1058 standards for emergency transfer switches. They meet and exceed all pertinent code requirements from NEC, NFPA, OSHA and life safety codes, in addition to major local codes.

Features
• Voltage surge protection - Voltage surge protection ensures reliable performance under adverse conditions. All units are tested during production and are burned in upon completion.
• Status indicators: Separate indicating LEDs for regular and emergency power and load allow verification of correct wiring connections.
• Safety and reliability interlocks: Voltage sensing interlock - optically isolated voltage sensors ensure erroneous voltage is not present at load terminals during transfer.
• Time delay interlock - break before make operation with time delay ensures all contact arcing has been fully extinguished before attempting transfer to alternate source.

Pre-Installation
WARNING: Install a self-adhesive 2" x 3" caution label in each fixture or load controlled by an ECD00-DOW unit cautioning that this load is supplied from 2 different power sources, regular and emergency.

Installation
1. Install relay switch.
2. Connect wires in numeric order.

ELECTRICAL SPECIFICATIONS
- Unit Power Consumption: 7W max. Continuous load current not to exceed 100% of switch rating.
- Load: 120-277VAC 50/60Hz

MECHANICAL SPECIFICATIONS
- Flush Mounted Size: 6" x 6" x 0.25"
- Suggested Box: (Not included) 4-11/16" flat cover with 1/2" knockout (Not included)
- Surface Mounting: (Not included) 4-11/16 flat cover with 1/2" knockout

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.

CAUTIONS
- Relay microswitch circuitry - in the event of relay contact welding or malfunction, microswitches detect and alert microprocessor to prevent phase to phase shorting across relay contacts.
- Mechanical interlock - relay interlock prevents both sides from being interconnected, even if all other interlocks fail.
- Suitable for total system transfer.
- When protected by a fuse of the specific manufacturer, type and ampere rating as marked below, this is transfer switch is suitable for use in circuits capable of delivering 5000A at 277V.
- When protected by a fuse of the specific manufacturer, type and ampere rating as marked below, this product should be installed by an electrician.
- Check voltage and current requirements.
- Use CU wire only.

INSTALLATION INSTRUCTIONS
ENGLISH

LEGEND
- #1 = Normal Hot
- #2 = Dimmer Control
- #3 = Emergency Hot
- #4 = Emergency Neutral
- #5 = Regular Neutral
- #6 = Dimmed Ballast
- #7 = Dimmed Ballast
- #8 = Regular Neutral
- #9 = Dimmer Control
- #10 = Normal Neutral
- #11 = Utility Hot
- #12 = Emergency Neutral
- #13 = Hot

1. Install relay switch.
2. Connect wires in numeric order.
2. Connect wires. (cont’d)

3. Perform initial testing.
   a. Turn on regular power circuit breaker and if all wire connections are correct, utility power green LED indicator light will be illuminated.
   b. Turn on 24V emergency circuit breaker. At this time, emergency circuit power is still derived from utility power, and if all wire connections are correct, emergency power red LED will be illuminated.
   c. Do not turn on dimmer system but press test switch. Designated emergency fixtures should then come on full bright. You can also test the device by turning off the regular power breaker.
   d. When main circuit breaker is on, operate dimmer control and observe if all fixtures light up, including designated emergency fixtures and if dimmer system lights respond normally when adjusted from low to high level. Blue LED should be off when load is ON.

4. Perform final testing.
   a. Choose a time when the main circuit breaker can be turned off and test all emergency lights.
   b. When main circuit breaker is off emergency circuits will be powered from either a generator, inverter or UPS.
   c. All designated emergency luminaires should be full bright regardless of dimming system setting. This is the proper function of the switch and conforms to UL1008, NEC and NFPA101 requirements.

Ongoing Testing

### DIP SWITCH SETTINGS

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• Monthly Automatic Test Feature: The monthly automatic test feature will test the Leviton ECD00-D0W for 40 seconds every 25 days and record results on microprocessor. Test results may be played back by holding test button for 3 seconds. Once green LED flashes once, release test button. Every green flash signals a passed test and every red flash signals a failed test.

• Fire Alarm/Remote Test Switch: Fire alarm/remote test switch input is optional. Cut red jumper wire and connect 24 VDC power to it through a dry contact. For NC type, when contact is closed, the switch will transfer to emergency source. For NO type, when contact is open, the switch will transfer to emergency source.

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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 Ltd 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 1-800-424-1055. This warranty excludes and there is disclaimed liability for labor for removal of this product or reinstallation. This warranty is void if it has been installed improperly or in an improper environment, overloaded, misused, abused, altered, or altered in any manner, or is not used under normal operating conditions and 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 other theory.