

WIRING DESCRIPTIONS

WIRE COLOR	DESCRIPTION	NOTES
Black	Normal Hot	N/A
White/Black	Wall Switch Input	Must be from same branch circuit as Black and Red.
Red	Normal Neutral or Other Phase	N/A
White/Blue White/Red	Remote Test Input (Class 2, Dry Contact Input)	When wiring multiple units together, White/Blue must be a shared common. Test is performed when Input is CLOSED.
Orange (N/O) Yellow (C) Blue (N/C)	Relay Contacts	N/O is OPEN when Normal Power is Absent or Remote Test Input is CLOSED. N/C opposite. N/O is CLOSED when Normal Power is Present or Remote Test Input is OPEN. N/C opposite. Recommended use N/C contact for shunt relay application, N/O for dimmer 0-10V override. Note: 0-10V dimming override application cannot be used on the same unit in a relay shunt application.
Brown (N/O) Purple (C) Grey (N/C)	Relay Contacts	N/O is OPEN when Normal Power is Absent or Remote Test Input is CLOSED. N/C opposite. N/O is CLOSED when Normal Power is Present or Remote Test Input is OPEN. N/C opposite. Recommended use N/C contact for shunt relay application, N/O for dimmer 0-10V override. Note: 0-10V dimming override application cannot be used on the same unit in a relay shunt application.

To test the ESRLUD periodically, repeat the appropriate Test Procedure below in accordance with national and local codes.

CONDITION	ACTION
Green LED is OFF	<ul style="list-style-type: none"> Check Normal Power Input wiring (Black and Red wires) and voltage.
Red LED is OFF but Load is OFF	<ul style="list-style-type: none"> Check bulbs and ballast. Check Load wiring (Blue wire and Load's neutral). Replace unit. (Assuming N/C contact is used)
Load is ON but Red LED is ON	<ul style="list-style-type: none"> Replace unit. (Assuming N/C contact is used)
Red LED does not turn OFF and Load does not turn ON when being tested	<ul style="list-style-type: none"> Check bulbs and ballast. Check wiring connections if using a remote test option. Press local test button on the unit. Replace unit.
Red LED will not turn ON and Load will not turn OFF	<ul style="list-style-type: none"> Verify status of Normal Power Input. Open Wall Switch Input. Verify that no test inputs are stuck closed. (i.e. Remote Test Input is not closed)

TESTING & TROUBLESHOOTING

Test Procedure: Four options to test the ESRLUD after installation:

Initial Test for Correct Wiring

Apply Normal Power to the Normal Power Input. (If using the Wall Switch Input, apply Normal Power to the switch also, but keep the switch OFF/OPEN.)

- The Green LED (Normal Power available) should be ON.
- The Red LED (Relay Status) should be ON.
- The Load should be OFF.
- The Relay Contact (N/O) should be CLOSED.

Local Test Button

- Turn switched circuit OFF. Load should be OFF.
- Press and hold "Local Test Button"
- Load should turn ON.
- Release "Local Test Button" and emergency light should turn OFF.

Wall Switch

- Turn ON wall switch if not already on.
- Load should turn ON.
- Turn wall switch OFF.
- Load will turn OFF.

Remote Test Button Model ESRTB

(Sold Separately)

- Turn switched circuit OFF. Load should be OFF.
- Press and hold "Remote Test Button"
- Load should turn ON.
- Release "Remote Test Button" and Load should turn OFF.

ESRLUD

Installation & Safety Instructions

IMPORTANT SAFEGUARDS

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

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

ALL SERVICING SHOULD BE PERFORMED BY QUALIFIED PERSONNEL

- This product is intended for use with lighting fixtures controlled by an Emergency panel. Any switching between Backup Power and Utility Power must be done upstream of this device.
- All wiring connections and mounting styles must be in accordance with the National Electrical Code (NEC), National Fire Protection Association (NFPA), National Electrical Safety Code, state and local codes, and any other regulations set forth by the local Authority Having Jurisdiction (AHJ).
- Per NFPA 70E, the use of Personal Protective Equipment (PPE) may be required. Check state and local codes.
- To reduce the risk of electrical shock, fire, and injury to persons:
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Do not use this device for other than intended use.
 - Disconnect all sources of power before servicing, Mount this device in locations and at heights where it will not be readily accessible to tampering by unauthorized personnel,
 - Do not mount near gas or electric heaters,
 - Do not let any wires touch hot surfaces, and
 - Do not use outdoors
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Do not use this device for other than intended use.

SAVE THESE INSTRUCTIONS

SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Normal Power Supply Voltage	120-277Vac
Normal Power Current Draw	6mA max
Normal Power Operating Frequency	50/60Hz
Remote Test Input (Class 2, Dry Contact)	ESRTB or other switching method ^{1,2}
Relay Contact DPDT	10A Resistive @ 30Vdc 10A General Use @ 277Vac

1: If not using the ESRTB Remote Test Button (sold separately), switching methods should be rated for at least 24Vdc. External voltage should not be supplied to this input. No specific current rating is required.

2: To maintain Class 2, a maximum of 45 total test inputs can be wired in parallel per ESRTB.

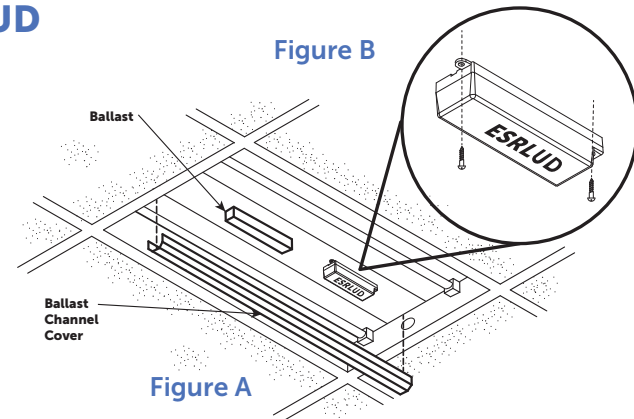
MECHANICAL SPECIFICATIONS

Wire: 16" 600V Rated
Operating: -30° to 140° F (-35° to 60° C)
Temperature: 5 to 95% (noncondensing)
Humidity Range: Rated for dry and damp locations only
Approvals: UL listed, UL924, C-UL

INSTALLATION

ALL INSTALLATIONS AND WIRING SHOULD BE DONE BY QUALIFIED PERSONNEL

ESRLUD



STEPS

1. Remove all sources of power.
2. Remove ballast channel cover.
3. Mount ESRLUD as shown in Figures A and B.
4. Wire the ESRLUD using an illustration from the "Typical Applications" section on page 3 or similar setups for different application.
5. Before applying power, review the Important Safeguards at the beginning of this document.
6. Finish installation as required by the NEC, NFPA, state, local, and other codes. Test the ESRLUD using the "Test Procedure" on page 4.

OPERATION

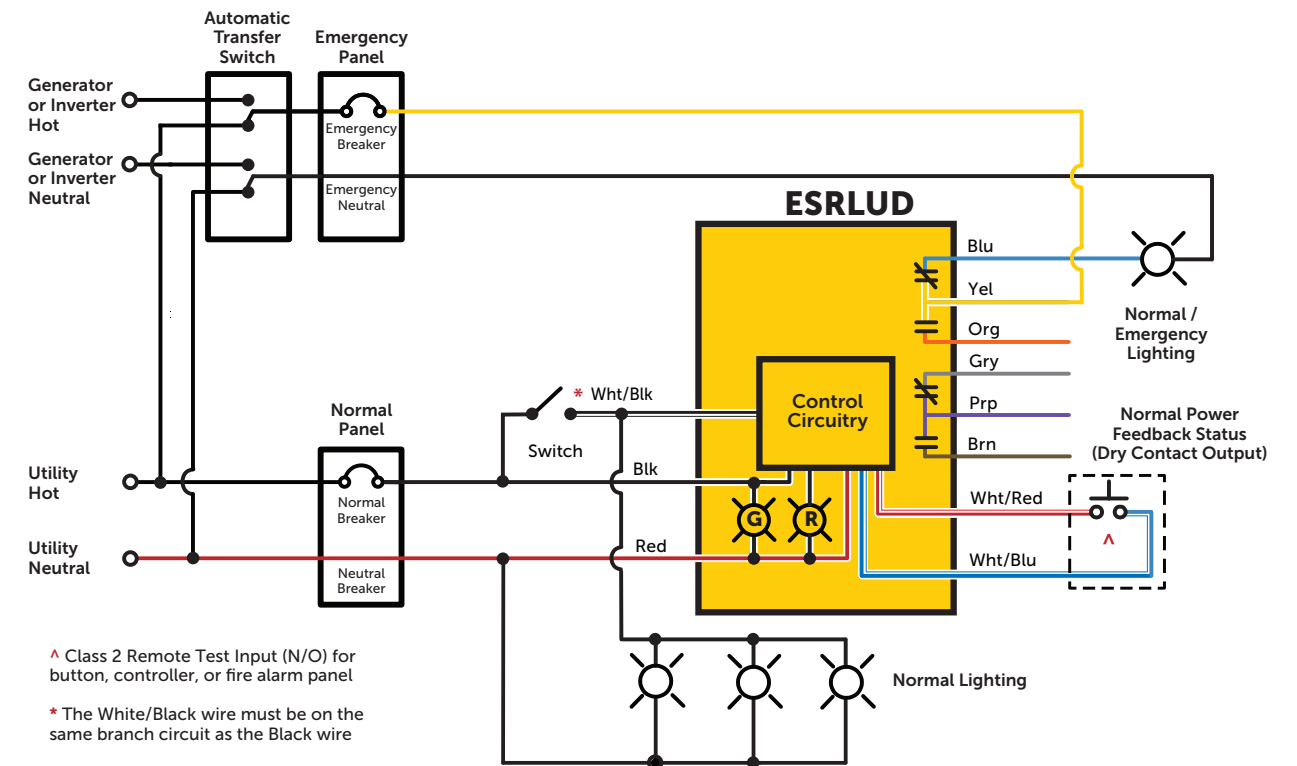
No routine maintenance is required for the ESRLUD. Occasionally, this device should be tested to ensure that it works correctly in accordance with national and local codes.

OPERATION

The ESRLUD will activate an emergency lighting load automatically upon the loss of Normal Power, provided a N/C contact is used. If Normal Power is absent, the status of the load cannot be overridden. However, if Normal Power is present, the Emergency lighting load can be controlled by other means in order to use it as a Normal Lighting load, depending on the wiring setup. When Normal Power is absent, the N/O contacts will open. The N/C contacts will operate opposite of the N/O. A green LED indicates that Normal Power is present. A Red LED indicates the status of the relay. When the red LED is on, the relay is on.

TYPICAL APPLICATIONS

USING EMERGENCY LIGHTING AS NORMAL LIGHTING



OVERRIDING A 0-10V DIMMER

