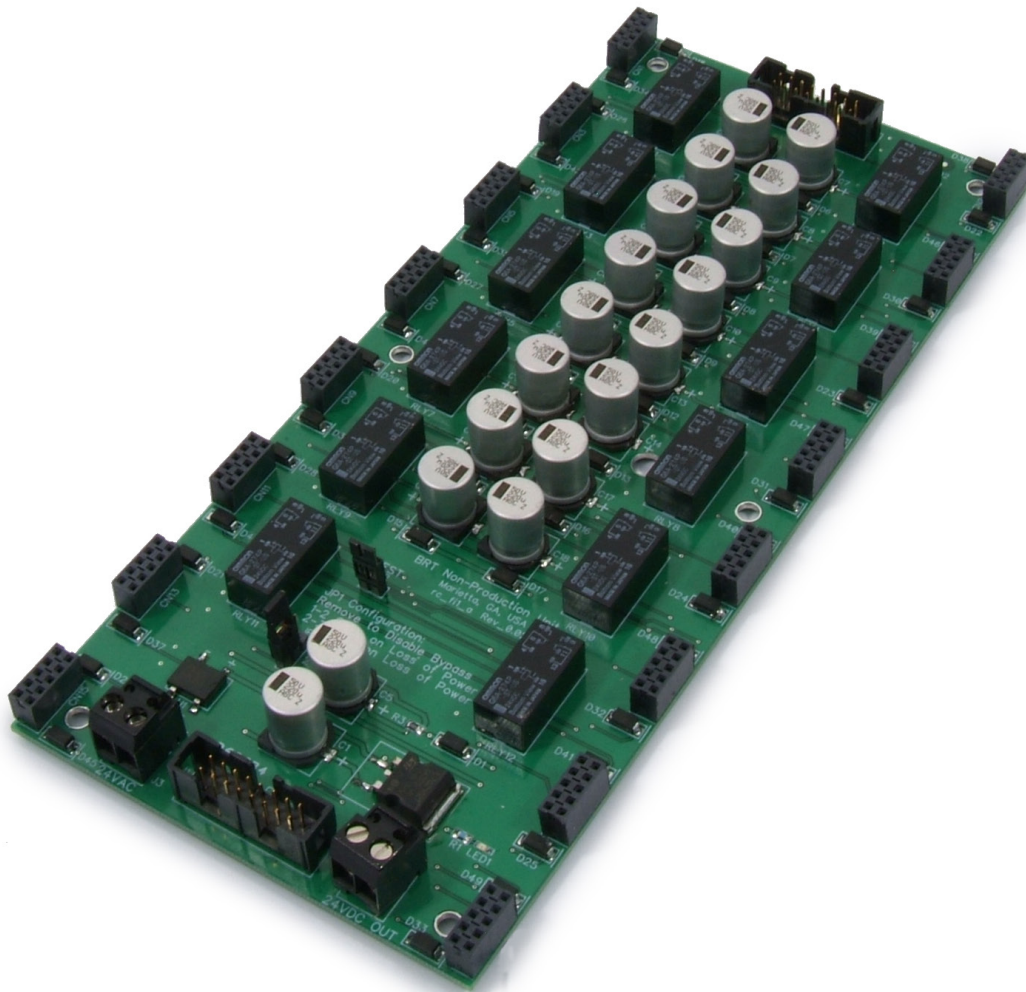


UL924 Overview

The optional UL924 Relay Interface Board enables CL Series Relay Panels (RP) to provide energy management control of emergency lighting circuits during normal operation while maintaining emergency function during power loss.

Each UL924 equipped RP monitors normal power for drop-out. When drop-out occurs UL924 forces its relays On. Once the emergency transfer switch and generator supply backup power the emergency lighting comes to life immediately.

The UL924 option includes Relay Voltage Dividers (RVD) for separated normal and emergency circuits as well as provisions for user installed indicator lamp.



UL924 Sequence of Operation

1. Emergency circuits are controlled from the optional UL924 Relay Interface Board. The UL924 jumper is set for "Emergency action Close all relays".
2. Power loss is detected by the UL924.
3. All relays connected to the UL924 are forced ON. UL924 capacitors power emergency relay function. No external power source or input is required for UL924 operation.
4. Relays not connected to the UL924 remain in their present state (On/Off). Lighting Tough Relays (LTR) are mechanical latching type.
5. Generator transfer switch (not located in the relay panel) reacts and allows generator to feed dedicated emergency circuits previously fed by normal (utility) power. The relays connected to the UL924 are already ON, so the only possible source of delay in emergency lighting is the generator or emergency transfer switch.
6. Dedicated emergency lighting circuits will remain On while emergency power source is applied.
7. Normal power is restored and the emergency transfer switch returns all circuits to normal power.
8. Relays connected to the UL924 will remain On during and after normal power restoration.
9. Relays not connected to the UL924 remain in their present state (On/Off).
10. Normal control of all relays, including relays connected to the UL924, is restored.

General Specifications

Mounting
Replaces Standard Relay Interface Board

Relay Capacity
16 LTR

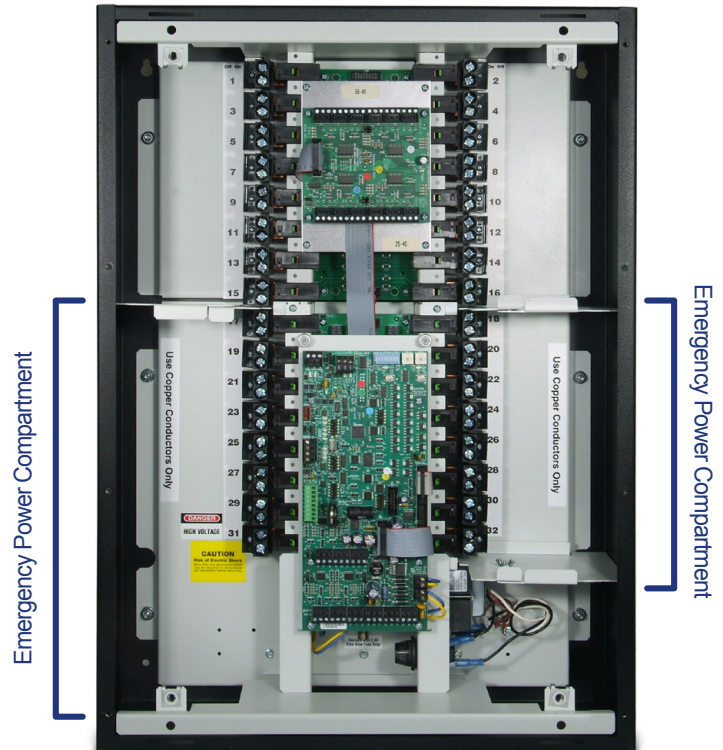
Emergency Voltage Separation
3 Relay Voltage Dividers (RVD)

Configuration
3 Pin Jumper Terminal
No Jumper = Emergency action Disabled
1-2 Jumped = Emergency action Close all relays
2-3 Jumped = Emergency action Open all relays

Emergency Circuit Testing
2 Position Jumper Terminal
No Jumper = Simulated power loss

Auxiliary Output
24VDC Output to power normal power indicator lamp

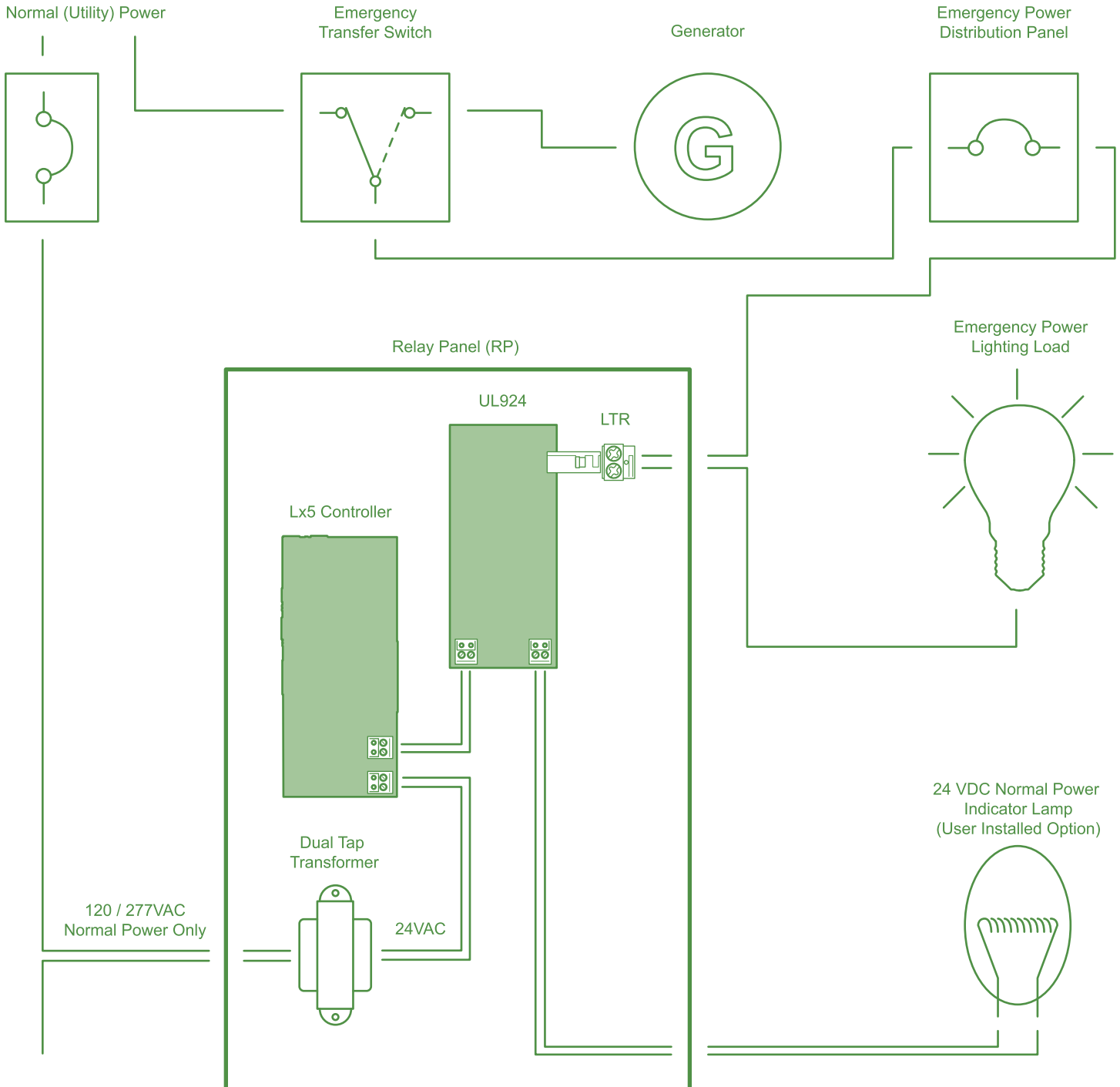
Environmental
Temperature: 32° to 125° F (0° to 50° C)
Humidity: 20% - 95% RH, non-condensing



Relay Panel Capacity	UL924 last 16 Relays only
CL16	Relays 1-16 are controlled by the UL924 Relay Interface Board
CL32	Relays 17-32 are controlled by the UL924 Relay Interface Board
CL48	Relays 33-48 are controlled by the UL924 Relay Interface Board

General Wiring

Each UL924 equipped RP controls up to 16 Lighting Tough Relays (LTR) for emergency circuits. However, the remaining RP components require normal (utility) power to function. DO NOT supply the RP transformer with emergency power.



Ordering

UL924 is available on 16, 32, and 48 relay capacity panels. See the Pricing Guide or Relay Panel Data Sheet for additional ordering information.

