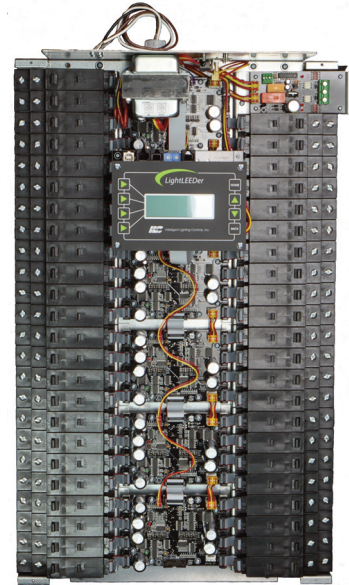


LightLEEDer

-24 -32 -40 -48 Microlite® Retrofit Insert Emergency UL 924

Overview

A LightLEEDer-24 -32 -40 -48 MicroLite® Retrofit Insert Emergency UL 924 can take your present outdated or failing MicroLite® lighting control system and get it up to today's standards. It provides a dependable, flexible, and energy savings controller featuring the robust Reliant40 relay. The EM Retrofit provides Emergency UL 924 operation for the panel relays and meets NFPA requirements. These panels will automatically provide a Force On, Force Off, or No Change operation for the relays based on loss of normal power. Under normal conditions, all the enhanced features of the LightLEEDer system are available with this retrofit system. Upgrades are as simple as removing the existing hardware and replacing it with the hardware provided on a single backplate insert, reusing the existing enclosure, conduit, and wiring. It is provided with a hinged locking flush mount door.



Features

- **Made in the USA**
- **Digital CAT5** ready
- **Electronics, Relays, and Transformer** provided on a single insert
- **UL 924** bypass relay operation of R40 relays
- **Selectable** Force On, Force Off, or No change
- **Standard Relays** supported: R40-1, -2, -3 pole
- **Normal & EM** relays in the same enclosure
- **High Voltage Dividers** for separation
- **3-Phase** monitoring module (LL-PMM)
- **Remote** test switch input and status output
- **NO/NC** dry contact output from PMM
- **Door Included** for the enclosure
- **Reuse** existing enclosure
- **LightLEEDer** standard panel operation supported
- **Network** compatible with other LightLEEDer panels and BAS interfaces

Warranty

Six-year limited warranty

Ordering

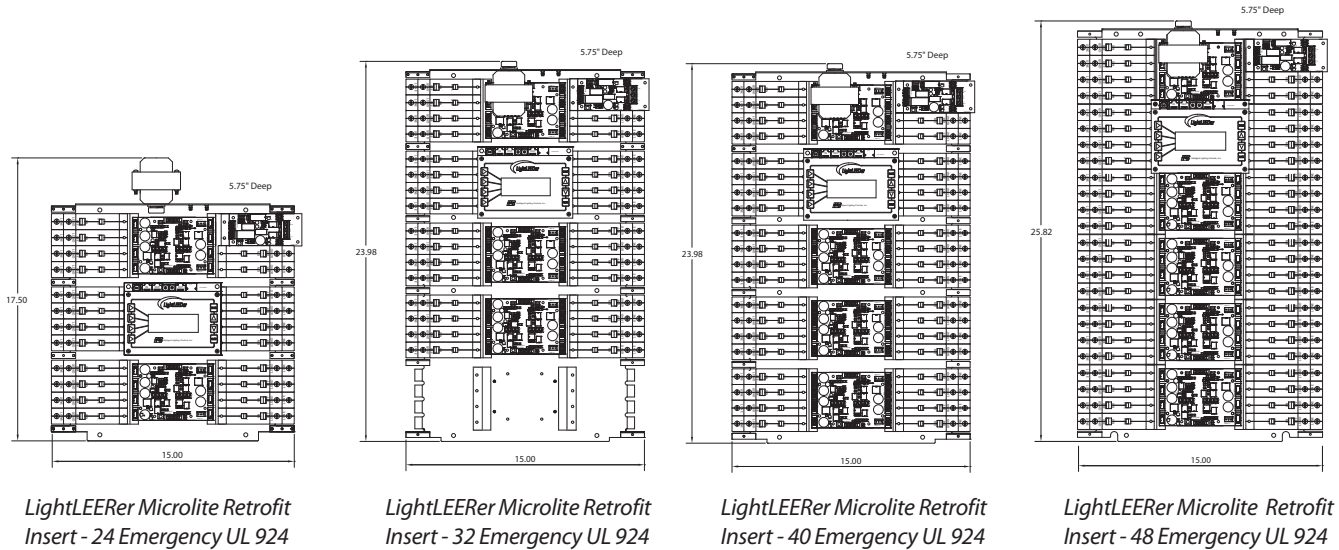
Insert				Reliant40 Relay(s)			
LLMRI				R40-1		R40-2	R40-3
LightLEEDer MicroLite Retrofit Insert	Insert size Size: -24, -32, -40, -48	120/277VAC=Blank	Output Type EM924 = Emergency UL 924	Series: R40-1 = single pole		Series: R40-2 = 2- pole	Series: R40-3 = 3- pole
				R40-1 Qty:		R40-2 Qty:	R40-3 Qty:

EM 924 relay drivers boards use standard relay sequencing and are not available in a addressable configuration.

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Physical



Specifications

Relays:

- Superior latching relays
- Switch type override control
- Lockout feature disables control from panel
- 40 Amps @ 120, 277, 347 VAC
- SCCR to 18,000 symmetrical amps
- 1, 2, or 3 pole configurations

Safeguards:

- Power surge and spike suppression up to 123 volts on the 24VAC power input
- Data line surge and spike suppression up to 8kv direct and 15kv thru air
- Memory retention for firmware and programming up to 200 years and electrostatic discharge to 4kv
- Real-Time-Clock time retention 45 days or greater without power
- Internal memory backup and restore

Physical:

- 24 Relay Insert: 17.5" H x 15" W x 5.75" D (Door Incl.: 20" H x 20" W)
- 32 Relay Insert: 23.9" H x 15" W x 5.75" D (Door Incl.: 27" H x 20" W)
- 40 Relay Insert: 23.9" H x 15" W x 5.75" D (Door Incl.: 27" H x 20" W)
- 48 Relay Insert: 25.8" H x 15" W x 5.75" D (Door Incl.: 30" H x 24" W)
- Double sided construction similar to MicroLite®
- Provided with pre-drilled mounting holes
- High voltage barriers separate Normal/Emergency/Class2
- Relay Bypass output module (RBOM)
- Phase monitoring module (PMM)

Electrical:

- 120/277 VAC @ 1 amps or optional 347 VAC
- PMM monitors 120/277VAC

Capacities:

- Up to 46 single pole relays with PMM
- 1 to 4 add-on modules

Operating Environment:

- Location: Interior space
- Operating Temperature: 0° to 50° C
- Humidity: 10% - 90% Non-condensing
- Atmosphere: Non-explosive/corrosive
- Vibration: Stationary

Certifications and Approvals:

- UL and CUL listed
- FCC Part 15
- UL 924
- Title 24
- ASHRAE compliant
- LEED compliant