## intelligent

ighting controls

## LightLEEDer

## Douglas Retrofit Insert

## Overview

A LightLEEDer Douglas Retrofit Insert can take your present outdated or failing Douglas lighting control system and get it up to today's standards. All of the enhanced features of the LightLEEDer system will be available with this retrofit system from LightSync switches to BAS control. Upgrades are as simple as removing the existing hardware and replacing it with the LightLEEDer hardware provided on a single back plate insert. Reuse existing enclosure, conduit, and high voltage wiring. The LightLEEDer programmable lighting controller retrofit insert provides a dependable, flexible, and energy savings controller featuring the robust Reliant40 relay.


## Features

- Made in the USA
- Digital CAT-5 Ready
- Electronics, Relays and Transformer provided on a single insert
- Reuse existing enclosure and door
- Installs directly in an existing Douglas enclosure
- Conduit and wiring can be reused
- Capacity of up to 48 relays
- Relays are the superior Reliant40 design
- Optional inputs for switches and occupancy sensors
- Supports LightSync data line devices
- Standalone or networked controls
- Networked with CAT5 cable
- BAS/EMS interface options
- Compatible with standard LightLEEDer panels
- Same features as the LightLEEDer controller
- Meets energy code requirements


## Warranty

Flve-year limited warranty

## Ordering



Note: R40 Relays purchased separately
www.ilc-usa.com
952.829.1900

LightLEEDer

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## Physical



LLDRI-08 Retrofit Insert
(Enclosure: $\left.20^{\prime \prime} \mathrm{H} \times 14^{\prime \prime} \mathrm{W} \times 4.25^{\prime \prime} \mathrm{D}\right)$


LLDRI-24 Retrofit Insert
(Enclosure: $\left.27^{\prime \prime} \mathrm{H} \times 20^{\prime \prime} \mathrm{W} \times 4.25{ }^{\prime \prime} \mathrm{D}\right)$


LLDRI-48 Retrofit Insert (Enclosure: $39^{\prime \prime} \mathrm{H} \times 20^{\prime \prime} \mathrm{W} \times 4.25^{\prime \prime \mathrm{D}}$ )

## Specifications

## Relays:

- Superior latching relays
- Switch type override control
- 40 Amps @ 120, 277, 347 VAC
- SCCR to 18,000 symmetrical amps
- 1 pole configuration


## Safeguards:

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

Physical:

- 8 Relay Insert: 17.49" H x 11.89" W x 3.75" D
- 24 Relay Insert: $24.19^{\prime \prime} \mathrm{H} \times 15.05^{\prime \prime} \mathrm{W} \times 3.75^{\prime \prime} \mathrm{D}$
- 48 Relay Insert: 34.86 " H x 15.05" W x 3.75" D
- Provided with pre-drilled mounting holes
- High voltage barriers separate Normal/Emergency/Class2 wiring


## Electrical:

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

Capacities:

- Up to 24 or 48 single pole relays
- 1 to 4 add-on modules


## Operating Environment:

- Location: Interior space
- Operating Temperature: $0^{\circ}$ to $50^{\circ} \mathrm{C}$
- Humidity: $10 \%-90 \%$ Non-condensing
- Atmosphere: Non-explosive/corrosive
-Vibration: Stationary


## Certifications and Approvals:

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

