intelligent
lighting controls

www.ilc-usa.com

| Light**LEED**er | Relay Panel |

Overview

The LightLEEDer programmable lighting control relay panel is the key to a powerful, dependable, flexible and energy efficient lighting system. LightLEEDer panels come with our new Reliant40 relays which feature a superior four contact design—the first true 40Amp lighting relay. Reliant40 relays come in 1-, 2- and 3-pole configurations in a robust breaker-style body. LightLEEDer panels range in size from 4 to 64 relay capacity and are equipped with CAT-5 RJ45 connectors for LightSync data line devices and interconnecting panels. Panels include a keyboard and LCD screen, along with USB and TCP/IP connections for easy programming with our free LightLEEDer Pro Software. Add-on modules are available for connecting to BAS, theatrical, or security systems.
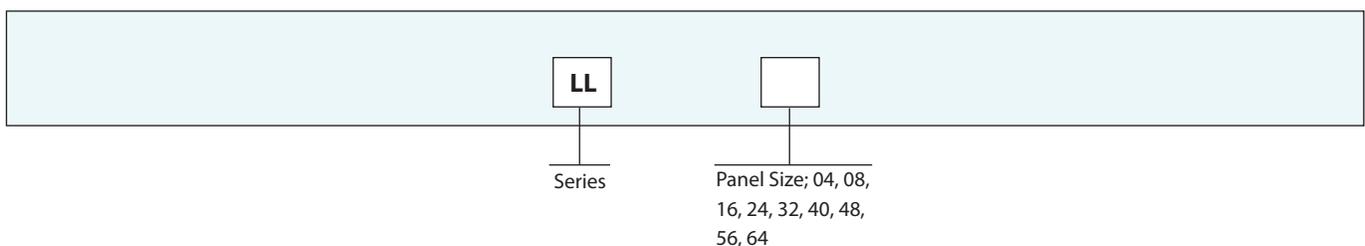
Features

- **Made in the USA**
- **Digital CAT 5** ready
- **Automatic** receptacle plug load and lighting circuit control
- **Programming Options** are done with a Integrated keypad with 4-line LCD display or using LightLEEDer Pro software via USB or TCP/IP.
- **Network Capability** allows you to connect up to 254 panels and 64 LightSync devices per panel, plus an additional 254 devices on the panel network.
- **Internet Capability** to interconnect panels across the internet.
- **Relay Groups** can comprise any relay on the network and be assigned to any of the 256 available groups — controlled by any timer, switch, or other external commands.

- **Relay Presets** can be programmed from any relay ON/OFF patterns and be assigned to any of the 256 available presets —controlled by any timer, switch, or other external commands.
- **Timer Scheduling** for **128 available timer**s that can turn relays ON or OFF for Time-of-Day, Astronomical times, and Open/Close.
- **Clock Functions** include Automatic Astronomical calculation of Sunrise and Sunset, Adjustable Daylight Saving Time and Enable/Disable.
- **Switching Inputs** accepts virtually any type of switch, momentary or maintained, 2- or 3-wire switch and directly powers motion sensors, data line switches and devices.
- **Switch Input Flexibility** is provided with time-of-day function change and also has "and/or" logic built in.
- **Add-On Modules** available for each controller, and include BACnet IP, BACnet MSTP, Modbus RTU, Modbus ASCII, N2, LonWorks, DMX512, DTMF telephone switching and modem.
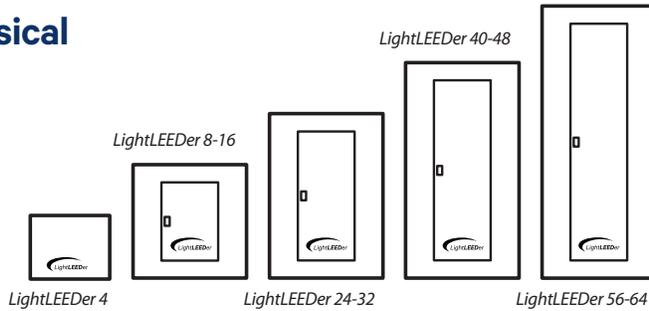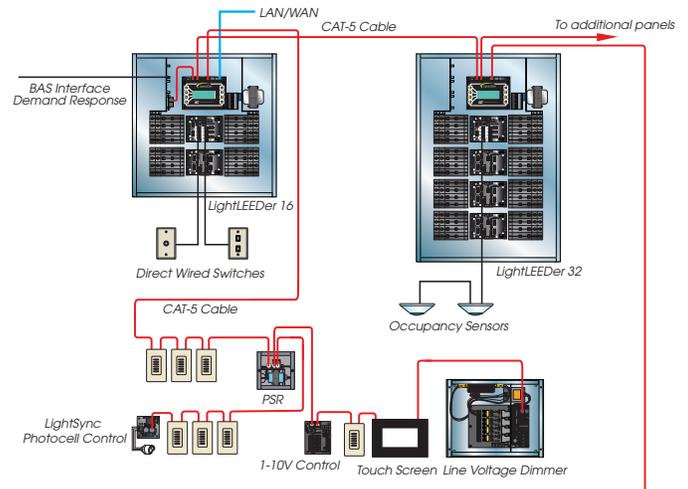
Warranty
Six-year limited warranty

Ordering

LL	[ ]
Series	Panel Size; 04, 08, 16, 24, 32, 40, 48, 56, 64

Note: Flush mounting option available

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Physical

LightLEEDer 40-48

LightLEEDer 8-16

LightLEEDer 4

LightLEEDer 24-32

LightLEEDer 56-64

LAN/WAN

CAT-5 Cable

To additional panels

BAS Interface
Demand Response

LightLEEDer 16

LightLEEDer 32

Direct Wired Switches

Occupancy Sensors

CAT-5 Cable

PSR

LightSync
Photocell Control

1-10V Control   Touch Screen Line Voltage Dimmer

Enclosure Size Options (NEMA Type 1 w/cover)

Enclosure Type	Relays	Width	Height	Depth
LightLEEDer 4	1 to 4	14 in.	11 in.	6 in.
LightLEEDer 8-16	1 to 16	20 in.	20 in.	6 in.
LightLEEDer 24-32	1 to 32	20 in.	29 in.	6 in.
LightLEEDer 40-48	1 to 48	20 in.	38 in.	6 in.
LightLEEDer 56-64	1 to 64	20 in.	48 in.	6 in.

Specifications

Relays:
• Superior breaker style design
• Switch type override control
• Lockout feature disables control from panel
• 40 Amps @ 120, 277 and 347 VAC, 1-pole
• 40 Amps @ 208/240/480, 2 & 3-pole
• R40 Relays ordered separately

Safeguards:
• **Power surge and spike suppression** up to 123 volts on the 24VAC power input
• **Data Line surge and spike suppression** up to 8Kv and 15Kv through 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:
• Double-sided construction for mounting directly to breaker box or stand alone
• Pre-drilled mounting holes for easy installation
• Provided with a removable hinged locking door. 4 size enclosure provided with a screw cover.

• High voltage barriers separate Normal/Emergency and Class 1/Class 2 wiring
• Optional NEMA 4 and 4X enclosures available

Electrical:
• 120 or 277 VAC @ 1 Amp, 347 VAC optional

Capacities:
• Up to 64 single pole relays
• 2 to 4 add-on modules

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

Certifications and Approvals:
• UL
• CUL
• FCC Part 15
• FCC Part 68
• Title 24
• ASHRAE compliant