

LightLEEDer

NEMA 4/4X Relay Panel

**Overview**

The LightLEEDer NEMA 4/4X Relay Panel is an option that can provide extra protection where moisture and wind driven rain is present. Available in both NEMA 4 and NEMA 4X type enclosures, these LightLEEDer panels range in size containing 4 to 64 relays. Panels are equipped with CAT-5 RJ45 connectors for LightSync data line devices and interconnecting panels. They also include a keyboard and LCD screen, as well as 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.



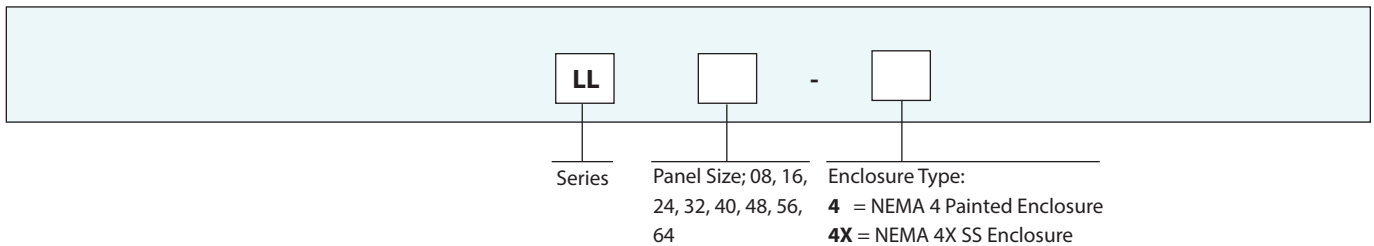
**Features**

- **Made in the USA**
- **Digital CAT 5** ready
- **NEMA 4 or 4X** Enclosures
- **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 timers** 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, DMX512, DTMF telephone switching and modem.

**Warranty**

Six-year limited warranty

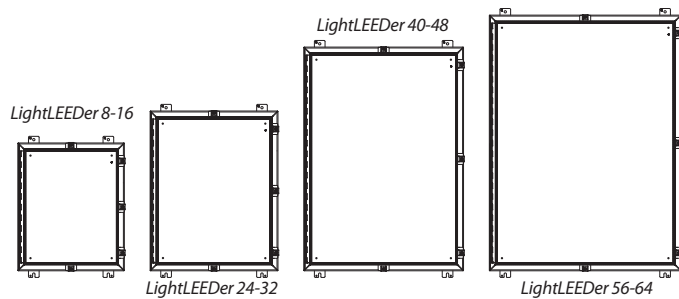
**Ordering**



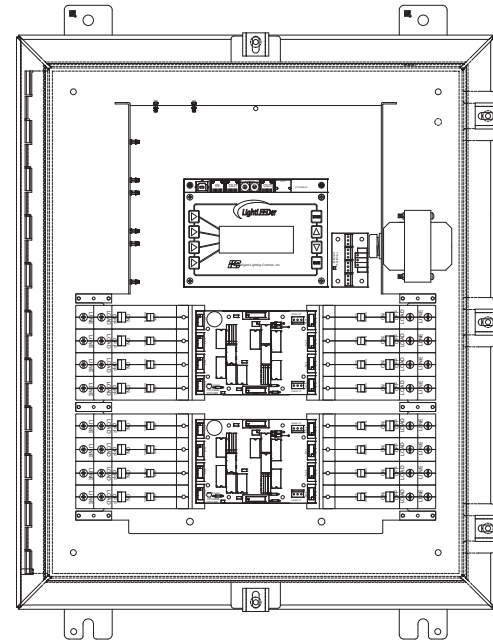
## LightLEEDer

## NEMA 4/4X Relay Panel

## Physical



Enclosure Size Options (NEMA 4/4X w/ cover)				
Enclosure Type	Relays	Width	Height	Depth
LightLEEDer 8-16	1 to 16	20 in.	24 in.	8 in.
LightLEEDer 24-32	1 to 32	24 in.	30 in.	8 in.
LightLEEDer 40-48	1 to 48	30 in.	42 in.	8 in.
LightLEEDer 56-64	1 to 64	36 in.	48 in.	8 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:**

- Welded brackets provided for enclosure mounting
- Neoprene sealed door with stainless steel clamp
- High voltage barriers separate Normal and Class 2 wiring
- NEMA 4 or 4X Enclosure provided

**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/Exterior
- 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