Catalog Number:	Date:	Project:

intelligent lighting controls

www.ilc-usa.com

LightLEEDer | **LightLEEDer-EVO**

Overview

The LightLEEDer-EVO is a distributed lighting control panel that simplifies installation. The LL-EVO can be expanded from the local port using a LL-EVO-RC, LL-EVO-4X, and/or LL-EVO-8X. This panel operates the R20 style relays that connect using a standard CAT-5 cable. The remote mounted R20 relay is suitable for lighting or plug-load use. The LL-EVO has 16 pre-programmed lighting applications, push to connect terminals with color coded labels, internal time clock, and galvanically isolated 0-10V dimming. The LL-EVO can operate as a stand-alone panel or networked, reverting to stand-alone automatically if the network is interrupted. When installing, simply set the panel for a lighting application and it is up and running. This allows the installer to confirm wiring and fixture performance from the start saving time and start-up expense. Each of the 16 application programs can still be modified or customized using the standard ILC software. The remote mounted R20D relay has both line voltage and the 0-10V dimming control wire leads for easy wiring.

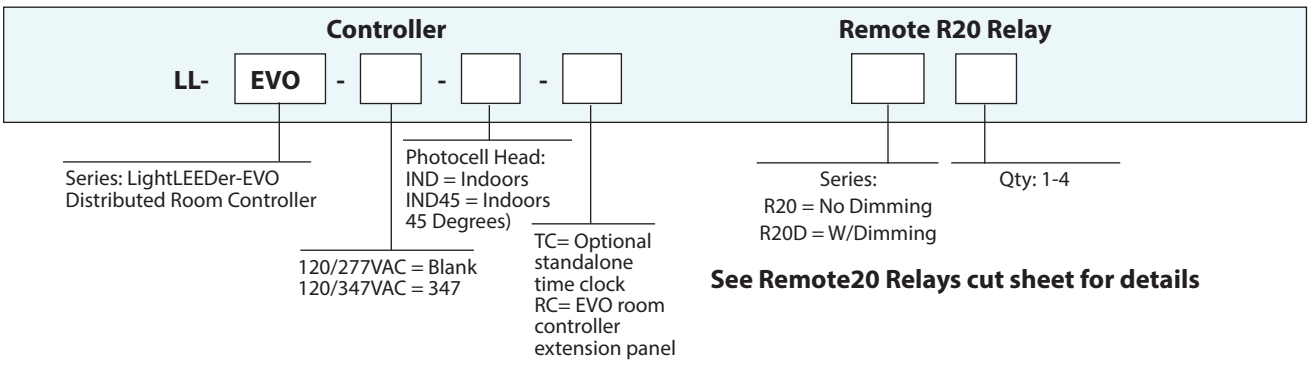
Features

- **Made in the USA**
- **Digital CAT-5 Ready**
- **Distributed** lighting controller
- **Outputs** for up to 4 R20 relays
- **Plug-load** compatible
- **Remote** mounted relay for direct connection to loads
- **Galvanically Isolated** 0-10 dimming for 4 zones
- **Status LED and Override** buttons for remote relay control
- **Standalone** or networked with any LightLEEDer controller
- **Time clock** includes 7/365-day calendar, Daylight Savings Time, Astronomic, Open/Close
- **200mA** power provided for occupancy or vacancy sensors inputs
- **RJ45 connectors** for networking, CAT-5 devices, and R20 relays
- **Enclosure**, suitable for plenum mounting

Warranty

Six-year limited warranty

Ordering



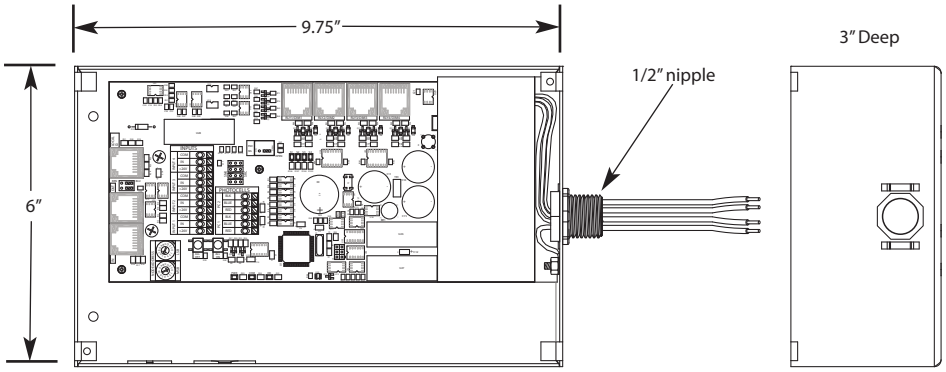
See Remote20 Relays cut sheet for details

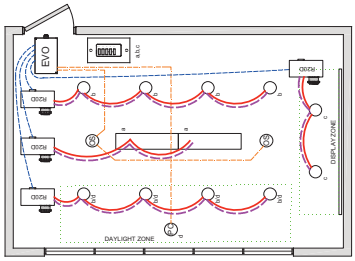
intelligent lighting controls

www.ilc-usa.com

LightLEEDer | **LightLEEDer-EVO**

Physical





WIRE LEGEND

- Line voltage
- 0-10V Dimming
- CAT-5e Data cable
- 3-Wire Occupancy Sensor or Photo Cell

Bill Of Material:

Qt:	Product:	Description:
1	LL-EVO	EVO Controller
4	R20D	Remote 20Amp Dimming relay
2	LSG2-W-5-MZD3	LightSync G2 3-Zone dimming digital switch station.
1	PC-IND	Photo Cell - Indoor.
2	ILC-SWX-221-1	Occupancy sensor Celling Dual Tech - 500sf

Specifications

Safeguards:
- Power surge and spike suppression up to 123 volts on the 20VAC power input to controller
- Memory retention for firmware and programming up to 200 years and electrostatic discharge to 4kv
- Real time clock retention 45 days or greater without power
- Galvanically isolation to 1500V for the 0-10VDC dimmer outputs, with revert to 100% on power loss

Physical:
- Enclosure: 9-3/4"x 6"x 3" NEMA 1
- Galvanized steel enclosure and screw cover
- Provided with pre-drilled mounting holes
- High voltage barrier separates Class 2 wiring
- ½" nipple for mounting to electrical box
- 6" wire leads for high voltage connections
- Push to connect low voltage terminals
- Color coded labels for easy terminal identification
- RJ45 connectors provide for easy connection
- Enclosure, suitable for plenum mounting

Integrated Interfaces:
- 4 inputs for hardwire switches or occupancy sensors
- Photocell controller for 2 sensor heads or zones
- RJ-45 port for up to 61 ILC CAT-5 devices
- 4 RJ-45 ports for R20 remote relays

Electrical:
- 120/277VAC @.6 amps (120/347VAC Optional)
- Input: 24 VDC (See below for details)
- Dimming: 100mA sink

Powered Devices/Distance/Input Power Draw:

4 CAT-5 devices, 400' accumulative feet, 200mA occupancy sensor power

5 CAT-5 devices, 500' accumulative feet, 160mA occupancy sensor power

6 CAT-5 devices, 600' accumulative feet, 120mA occupancy sensor power

7 CAT-5 devices, 700' accumulative feet, 90mA occupancy sensor power

8 CAT-5 devices, 800' accumulative feet, 60mA occupancy sensor power

Additional LightSync devices can be supported by adding a PSR.

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
- Title 24
- ASHRAE compliant
- IECC compliant