**LightLEEDer EVO Controller**  
**Wiring Details**

### RJ-45 Connectors for CAT-5 Cable to R20 Remote Relays at maximum distance of 100 feet

<table>
<thead>
<tr>
<th>Connection</th>
<th>Color</th>
<th>Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>RJ-45</td>
<td>Black</td>
<td>120V</td>
</tr>
<tr>
<td>CAT-5 Cable</td>
<td>Brown</td>
<td>277V</td>
</tr>
<tr>
<td></td>
<td>Orange</td>
<td>347V (Optional)</td>
</tr>
<tr>
<td></td>
<td>White</td>
<td>Neutral</td>
</tr>
<tr>
<td></td>
<td>Green</td>
<td>Ground</td>
</tr>
</tbody>
</table>

### RJ-45 for CAT-5 Cable Connection to Other LightLEEDer Panels When Networked

- **1/2" and 3/4" Knock-outs** for Low Voltage Conduit and Wiring Connection

### EVO Input wiring

- **Push input lock button to open the wire hole jaw, insert wire.**
- **Photo Cell inputs are powered at 5VDC**
- **Maximum range of 3,000 feet to sensor**

### Inputs can be used for motion sensor(s) or override switches
24VDC power 200mA maximum for all 4 input combined.
#18AWG wire at maximum distance of 1,000 feet

### Momentary SPDT center off toggle switch shown
3-wire connection requires 2 inputs.
Optional: maintained switch or momentary push button uses a 2-wire connection (+24VDC to Input).

- **Black = Common**
- **Blue = Digital return**
- **Red = +5VDC**

### Up - On
- **Top lug = Off**
- **Center = Power**
- **Bottom lug = On**

### Down - Off
- **Top lug = Off**
- **Center = Power**
- **Bottom lug = On**

### Local LS - RJ-45 for CAT-5 Cable Connection to LightSync Switches or Devices

- **Push input lock button to open the wire hole jaw, insert wire.**

### CAT-5 Cable to R20 Remote Relay

- **Black = Common**
- **Blue = Return signal**
- **Red = +24VDC**

### Optional: maintained switch or momentary push button uses a 2-wire connection (+24VDC to Input).

- **Black (OFF) - INPUT 2**
- **RED (ON) - INPUT 1**
- **YELLOW - +24V**

### Black = Common

- **BLUE - IN**
- **RED - +24V**

### ILG - Photo cell

- **Black = Common**
- **Blue = Digital return**
- **Red = +5VDC**