

ILC LightSync G3 Installation Instructions

The ILC LightSync G3 (LS-G3) switch provides networkable low voltage control for LightLEEDer panels and EVO panels.

Step 1. Verify that each LightSync device on the network has a unique node address. See Figure 1 to set a unique node address, Note the address on switch label.

Step 2. Install network cable per riser drawing. See cable installation guidelines on back. Use suitable CAT-5 cable to connect the switch to the panels. Plug the RJ-45 connector to the IN port on the back of the switch See Figure 2. If you are connecting multiple LightSync devices, run cable from the OUT port to the next device. See Figure 3 for cable termination detail. Be certain to observe cable distance limitations.

Review the LightSync Cable Run Distance Detail Technical Bulletin (TB1408). The LightLEEDer electronics supports up to 8 LightSync switch nodes. You must add a Power Supply Repeater (PSR) for each additional 20 LS switch nodes you add to the panels local LightSync output or the LightLEEDer network up to the maximum. PSRs are also required if the installation layout requires one or more “T” connections (one incoming and two outgoing lines), or if the cable run is longer than 3000 ft.

Step 3. Verify that the switch is installed and functioning correctly by accessing the panel and bringing up the appropriate screen. See LightLEEDer User Guide. If you are using PC control via LightLEEDer Pro software, you may view the appropriate screen on your PC.

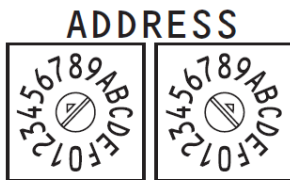
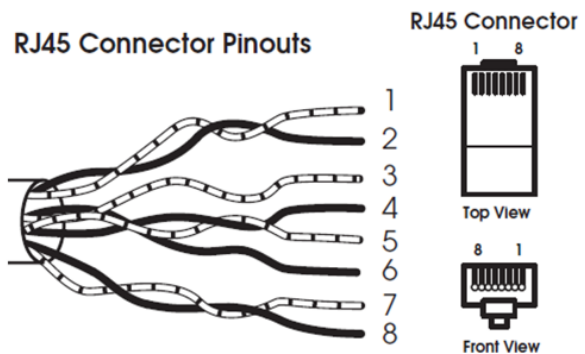


Figure 1
Addressing Switches (Address 6A shown as an example) A sticker is provided to note node address.



Figure 2



Pin	Color	Pin	Color
1	White /Orange	5	White / Blue
2	Orange	6	Green
3	White / Green	7	White / Brown
4	Blue	8	Brown

Figure 3

CAT-5 Data Cable and Class 2 Switch Wiring Installation Guidelines

- Observe all ILC Data Cable Requirements and LightSync Cable Run Distance requirements as they pertain to your project in laying out of the cable runs.
- Maintain the twists of the pairs all the way to the point of termination, or no more than 1" untwisted.
- Make gradual bends of the cable, where necessary. No sharper than a 1" radius.
- Dress the cables neatly with cable ties. Use low to moderate pressure.
- Use low to moderate force when pulling cable.
- Keep cables as far away from potential sources of EMI (electrical cables, transformers, light fixtures, etc.) as possible, recommended 2-3 feet separation.
- Install proper cable supports, spaced no more than 5 feet apart.
- Always label every termination point. Use a unique number for each cable segment. This will make moves, adds, changes and troubleshooting as simple as possible. Document these onto a riser.
- Always test every installed segment with a CAT-5 cable tester.
- Always leave extra slack in the cable run as stress relief, neatly coiled up in the ceiling or nearest concealed place.
- Always use grommets to protect the cable when passing through metal studs or anything that can possibly cause damage to them.
- Always follow all local and national building and fire codes. Be sure to "firestop" all cables that penetrate a firewall. Use plenum rated cable where it is mandated.
- Do not pull ANY data cable or switch wires with high voltage wires.
- Keep all low voltage totally separate from ALL high voltage. Failure to do so will void the ILC warranty.
- Always contact ILC on installations between buildings or cable pulled underground. Special considerations may be needed.

Refer to **ID0006** for additional information on CAT-5 cable and recommended RJ45 ends and crimp tool.

Refer to **PD0628** for G3 switch options available and device configurations.

Refer to **PD0629** for G3 changing the G3 switch configuration of button face using button change kit.

For additional assistance contact ILC Tech Support at **952-842-2588** or visit the ILC website at www.ilc-usa.com