

# LIGHTLINK™

## LL-101-01 Setup Guide

**i2Systems**  
ADVANCED LED LIGHTING

### WELCOME

Thank you for purchasing an i2Systems® LightLink™ LL-101-01. To get started, we recommend the following:

- Carefully follow the step-by-step instructions in the following pages. Please note that LL-101-01 dimming modules are for use ONLY with i2Systems *Dimming-Ready* power supply enclosures.

### CAUTION

Wiring with power on may result in personal injury. Damage to this product caused by wiring with power on voids warranty. Make all connections prior to applying power. Read all instructions prior to installation. To reduce the risk of fire, burns, or injury, use lights only in the manner intended by i2Systems. Should you have questions regarding your installation, please contact i2Systems before applying power. Product should be installed by a licensed electrician.



This device has been tested and found to comply with Part 15, Class B, of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

### PLEASE

- When installing or servicing the LightLink, be sure to disconnect the circuit prior to beginning work. Care must be provided when making connections.
- Proper safety equipment including eye protection should be worn, and proper safety precautions should be taken.
- Connect to a properly grounded branch circuit protected by a circuit breaker or fuse.
- Never wire directly to a battery or unprotected power source without proper circuit protection installed.
- Always use i2Systems and/or i2Systems recommended electrical components.
- Never leave exposed wiring without using a suitable wire nut or connector when making a connection to an electrical circuit.
- Never exceed the maximum voltage ratings. Failure to comply will damage the LightLink.
- Dry / damp location only. Never submerge the LightLink module in any liquid or install where liquid will collect, pool, or puddle.
- Wiring must be rated for +105°C or higher. Minimum wire size is .82mm<sup>2</sup> (18 awg).

### Questions? Contact i2Systems:

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## POWER INPUT

PARAMETER	NOTES	MIN	TYP	MAX	UNITS
<b>Absolute Maximum Ratings</b>					
Input Voltage (DC)	Continuous	0		40	Vdc
Input Current				50	mAdc
Operating Ambient Temperature		-20		50	°C
Storage Ambient Temperature		-20		70	°C
<b>Input Characteristics</b>					
Operating Input Voltage (DC)		6	12/24	36	Vdc
Input No Load Current			20		mAdc

### Conditions:

TA = 25°C      Cooling: Convection  
 Load = Maximum Load      Vin = 24Vdc

### CONNECTIONS:

- DC Source: +DC to Vin (red) | DC Common to Common (black)

## MOMENTARY SWITCH DIMMING

**INSTALLATION:** The LL-101-01 is for use only with i2Systems *Dimming-Ready* power supply enclosures.

1. Disconnect power supply enclosure from power source.
2. Open power supply cover, locate dimming connector and bracket with switch. If your enclosure does not include the hardware, your enclosure is not *dimming-ready*.
3. Remove adhesive backing from the LL-101-01 and install next to the dimming switch. Hold the LightLink to the surface for at least 30 seconds.
4. Plug the LL-101-01 connector into the dimming connector within the power supply box.
5. If you have not already connected your i2Systems lights, please do so now.
  - If your lights have 3 wires, connect the Dim wire to the yellow terminal block.
  - If your lights have 4 wires, connect the Dim wire to the yellow terminal block AND the Isolated Ground wire to the negative terminal block within the power supply enclosure.
  - If your lights have 2 wires, they are not compatible with LL-101-01.
6. Power on your power supply enclosure. Dimming is now active via the momentary switch adjacent to the LL-101-01.

**OPERATION:** Press and hold momentary switch to initiate dimming cycle. Dimming cycle continues to dim as long as switch is engaged, ranging from 100% to approximately 5% intensity holding 2 seconds at each position before dimming the opposite direction. Briefly press and release momentary switch for on/off operation. Non-linear dimming.

In the case of a power outage, upon recovery, the LL-101-01 will power on and return to its previous state. Depending on the dim level of the previous state, connected lights may exhibit a flash at power up - this is normal.

## LIGHTLINK LL-101-01 OUTPUT

Lightlink LL-101-01 provides simple dimming integration to select i2Systems and i2Systems enableLED products.

### DEFINITION OF PINS:

#### DIM:

*DIM* (Yellow) output provides a control signal for use with dimmable i2Systems and i2Systems enableLED products including:

- Apeiron Series (dim up to 20 lights per LightLink LL-101-01).
- V-Line Series (dim up to 20 feet of V-Line per LightLink LL-101-01).
- S-Line S1200 Series (dim up to 20 feet of S-Line S1200 per LightLink LL-101-01).

For a more detailed list, visit [www.i2Systems.com](http://www.i2Systems.com).

#### COMMON:

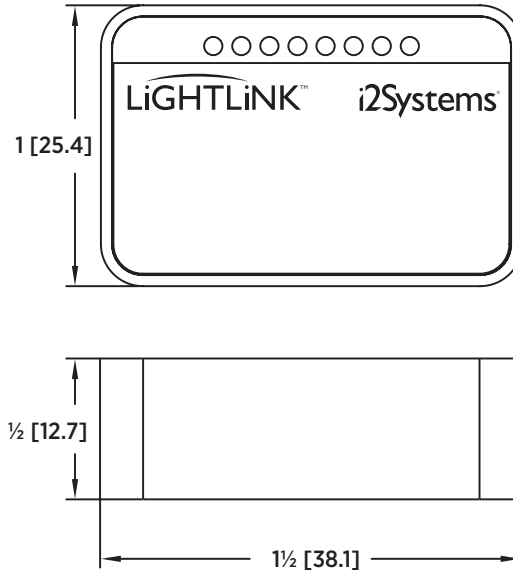
*COMMON* (Black) provides a common reference to *DIM* (Yellow). Note that the LightLink LL-101-01 uses a common ground and thus only requires 1 control wire (*DIM*) to be run to each light provided the LightLink LL-101-01 shares a DC common with the light to be controlled.

## SIDE VIEW



## DIMENSIONS

Inches [MM] - Drawing shown full size



## WARRANTY

i2Systems warrants that the product is free from defects in material or workmanship under normal operation. i2Systems' standard warranty is 12 months from the date of shipment to the customer. Any replacement parts furnished at no cost to the customer in fulfillment of this warranty are warranted only for the unexpired portion of the original warranty. Any services or repair outside the scope of this limited warranty shall be at i2Systems' rates and terms then in effect.

I2SYSTEMS WILL NOT BE LIABLE FOR ANY DAMAGE, LOSS, COST OR EXPENSE FOR BREACH OF WARRANTY EXCEPT AS DESCRIBED ABOVE. I2SYSTEMS' LIABILITY SHALL BE LIMITED TO REPAIRING OR REPLACING DEFECTIVE PRODUCTS ONLY AND SHALL NOT BE LIABLE FOR COSTS ASSOCIATED WITH REPLACING DEFECTIVE PRODUCT.

Normal "Wear and Tear" as determined by i2Systems is NOT covered by this warranty. For units returned in warranty and determined to be customer responsibility, i2Systems customer service will notify the customer. i2Systems is not responsible for damages outside our control including, but not limited to, physical damage, modifications to the product, or improper packaging. If product to be repaired was purchased from a dealer, distributor, or reseller, the product must be returned to the seller.

Additional warranty and returns information is available at [i2Systems.com](http://i2Systems.com)

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