AcuityControls

nLight®

nBRG 8
8-Port nLight Bridge

OVERVIEW

The nLight Bridge increases the number of lighting control zones in an nLight system. This ability stems from the fact that each Bridge has 8 RJ-45 ports into which zones of daisy-chained nLight devices can connect. The Bridge also is an integral component of the communication backbone in an nLight network. Fundamentally, Bridges act as hubs by aggregating traffic from the connected downstream zones and placing it onto the backbone. They also act as routers by forwarding information from the backbone out to the applicable downstream zones.

FEATURES

- Communicates with nLight Network
- Remotely configurable/upgradeable
- Push-button programmable
- Green LED indicators for each Port
- Redistributes bus power between ports
- Supports up to 128 devices per port

SPECIFICATIONS

Dimensions:	4.90" H x 4.90" W x 1.05"D
Color:	White
Mounting:	4" x 4" square box
nLight Network Ports:	(8) RJ-45 Electrical
Input Voltage:	15-24 VAC/VDC
Input Current:	60 mA
Bus Power Contribution:	~90mA total (if powered via **PS 150**)
Max Input Current/Port:	40mA (e.g. from a connected **nPP16**)
Max Output Current/Port:	40mA (assumes sufficient bus power is present from combination of local power supply and other connected zones with net positive bus power)
Recom'd Power Supply:	**PS 150** via terminal connections (or **PS 150 347**)

RoHS Compliant, Title 24 System Component

Warranty

Five-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application.

Specifications subject to change without notice.

A+ Capable

This item is an A+ capable component, which has been designed and tested to provide out-of-the-box luminaire compatibility with simple commissioning, when included as part of an A+ Certified™ Solution.

To learn more about A+, visit www.acuitybrands.com/aplus.

ORDERING INFORMATION

nBRG 8			Example: nBRG 8 KIT
Series	**Voltage**	**Temp/Humidity**	**Power Supply**
nBRG 8 Bridge	[blank] 120/277VAC 347 347VAC	[blank] Standard LT Low temp	[blank] Unit Only KIT Kit w/ power supply

WIRING (DO NOT WIRE HOT)

A 15-24 VDC or VAC power supply can deliver power to the Bridge via the terminal connections on the side of the unit. The **PS 150** version power supply (included in the **KIT** option) is recommended, as it conveniently mounts through a knock-out on the side of the junction box where the Bridge unit is mounted.
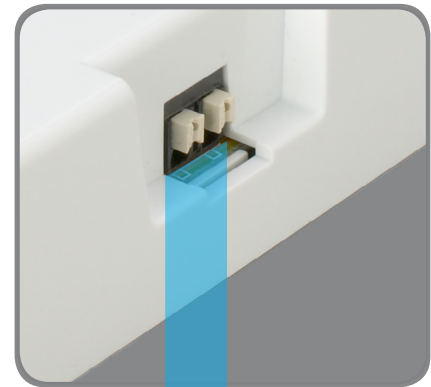

N **H**

RED

PS 150   WHT   **BLK - 120 V**
ORN - 277 V

BLK   BLK/ORN

Cap unused BLK/ORN wire
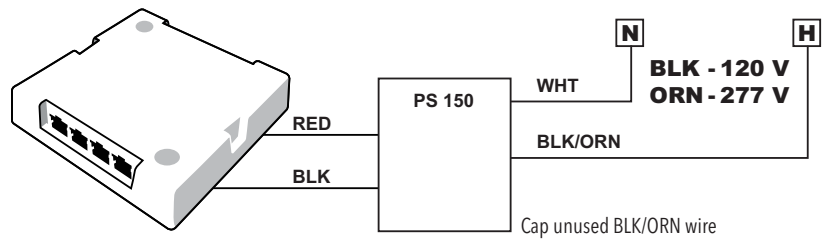
DETAILED DIAGRAM
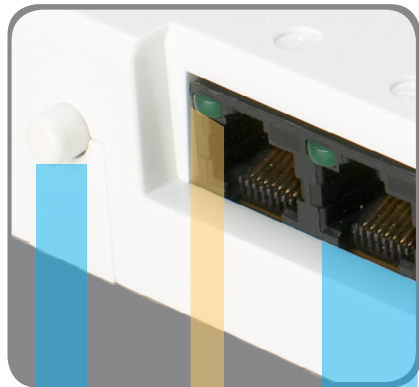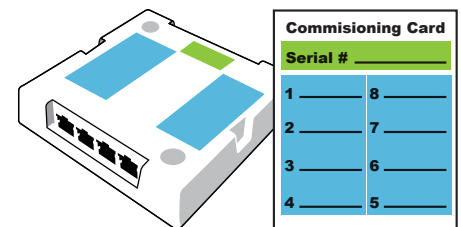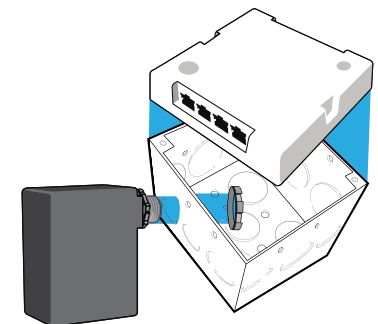

**BUTTON**   **LED**   **RJ-45 PORT**   **SCREW HOLES**   **POWER TERMINAL CONNECTION**

INSTALLATION

1. Mount power supply to a 4" x 4" square junction box (through a 1/2" knockout)
2. Connect the power supply's class 1 line voltage wires. Cap any unused wires.
3. Mount Bridge unit to top of same junction box
4. Connect the power supply's low voltage wires to the Bridge's terminal connectors. Upon power up, unit's LEDs will flash.
5. Attach CAT-5e cables from lighting zones to the appropriate Bridge RJ-45 ports according to system design. Individual port LEDs will blink according to the following pattern:
   - Rapid Flash - Port is in discovery
   - 1 Blink - Healthy zone of devices
   - 2 Blinks - Upstream bridge or gateway is detected
   - 4 Blinks - Downstream bridge is detected
6. Fill out Bridge's port identification sticker(s) and commissioning card
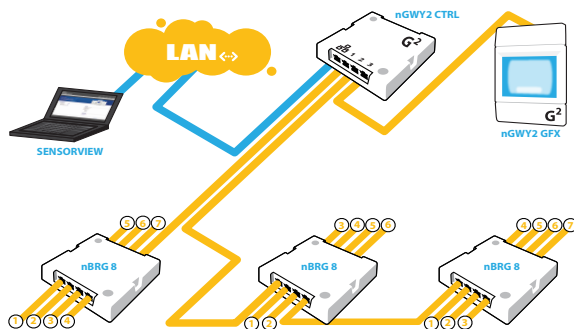
NETWORK CONFIGURATION

An nLight network backbone consists of one or more Bridges and a Gateway (nGWY2 CTRL & nGWY2 GFX) communicating over CAT-5e wired connections. The architecture can be topology-free, however wide branching backbone networks are recommended over linear runs. Any one or more RJ-45 ports on a Bridge may be used to connect to other Bridge or Gateway devices.
Note: A maximum of 9 bridges may be used in a row (ie: bridge jumps from the gateway to the last bridge should remain less than 9).

PROGRAMMING

Refer to included instructions on LED indications and push button functionality.

nBRG - TN-701