Catalog Number: | Date: | Project:

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

nBRG 8

8-Port nLight Bridge

Buy American
BAA variants of this product are assembled in the USA and meet the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

Warranty
Five-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/support/warranty/terms-and-conditions

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.

Buy American | A+ CAPABLE | c UL us LISTED

ORDERING INFORMATION

nBRG 8				
Series	**Voltage**	**Temp/Humidity**	**Power Supply**	**Buy America(n)[1]**
nBRG 8 Bridge	[blank] 120/277VAC 347 347VAC	[blank] Standard LT Low temp	[blank] Unit Only KIT Kit w/ power supply	[blank] Standard BAA Buy America(n) Act Compliant

Notes:
1. Not available with 347, LT, or KIT options.

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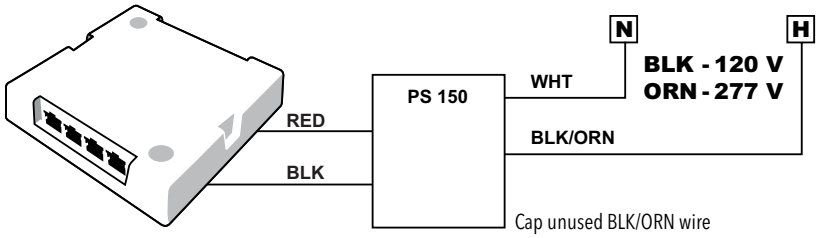
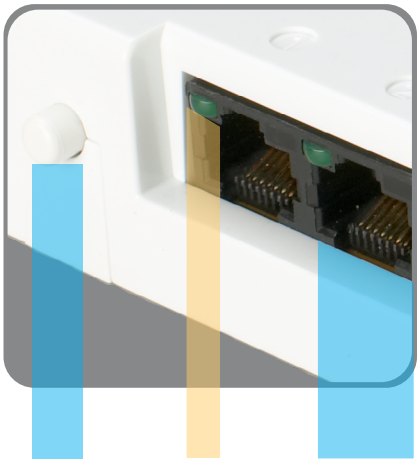
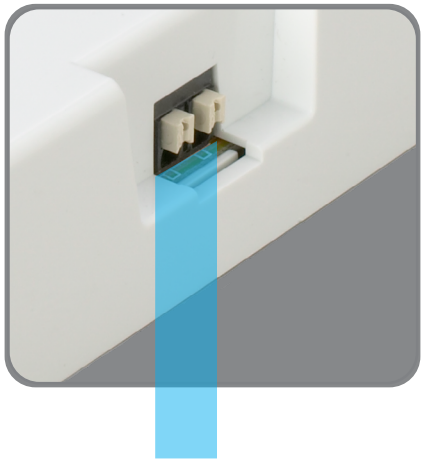
WIRING (DO NOT WIRE HOT)

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.



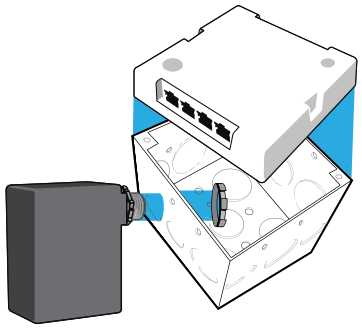
DETAILED DIAGRAM

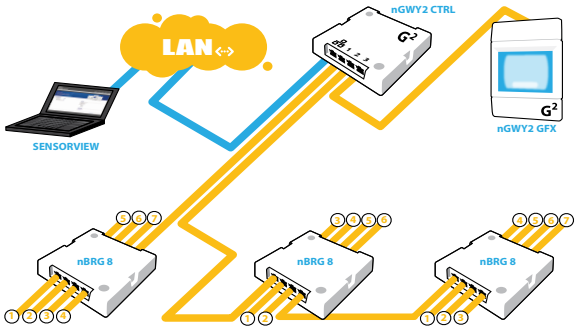


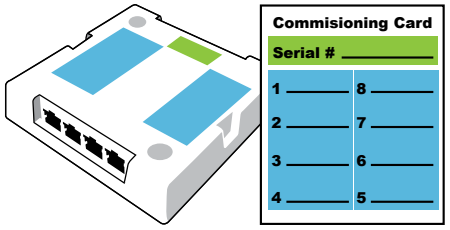


INSTALLATION

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.

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SPECIFICATIONS

Electrical	**Input Ratings**	15-24VDC, 60mA, Class 2 (via included PS-150 or PS-150-347 power supply with KIT option) 15-24VDC, 40mA, Class 2 per port (e.g. from a connected nPP16)
	Low Voltage Output Ratings	15VDC, 40mA per RJ-45 Port (90mA total with connected PS-150 or PS-150-347 power supply)
	Standards/ Ratings	Energy Management Equipment, UL916 (E167435)
Mechanical	**Dimensions**	4.90H" x 4.90W"x 1.05D" (124mm x 124mm x 27mm)
	Mounting	Directly to 4" x 4" Square Box Surface Mount
	Color	White
	Connection Type	RJ-45 nLight Network Ports (8) Low-Voltage Terminals
Environmental	**Warrantied Operating Temperature**	Standard: 32°F to 140°F (0°C to 60°C) LT option: -4°F to 140°F (-20°C to 60°C)
	Relative Humidity	Up to 90%, Non-Condensing
	Standards/ Ratings	RoHS, Plenum UL2043
General	**Standards/ Ratings**	System Component to aid in compliance with Title 24, ASHRAE 90.1, IECC
	Security	Complies with California Civil Code Title 1.81.26, Security of Connected Devices, approved under Senate Bill No.327 (2018)

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