

OVERVIEW

The nPS 80 DALI is a dual-function DALI® and nLight® controller that enables control of open protocol lighting while leveraging all the benefits of the nLight lighting controls system. The device is DALI-2® certified and provides DALI bus power to control up to 64 DALI drivers in a single DALI loop. The nPS 80 DALI adds DALI control to a comprehensive portfolio that includes 0-10V, phase dimming, and luminaire embedded controls, to help meet virtually any project specification.

The nPS 80 DALI is certified by the Digital Illumination Interface Alliance (DiiA)® to ensure compatibility with DALI-2 certified and marked LED drivers, as well as fluorescent ballasts. Compatible drivers can be found in the DiiA® website at <https://www.digitalilluminationinterface.org/products>. If used with LED driver, or fluorescent ballast, that are not DALI-2 certified, Acuity Brands recommends that compatibility is tested prior to purchase and installation. nPS 80 DALI is not for use with DALI devices other than drivers or ballasts.

FEATURES

- DALI-2 Certified
- Supports a single DALI loop (up to 64 DALI drivers)
- Controls a maximum of 16 DALI groups (8 DALI groups with 8Z CCT version)
 - Consumes 17 device addresses in the nLight Wired Network (9 device addresses with 8Z CCT version)
- Automatically addresses and configures connected DALI drivers for easy out-of-box operation
- Available in either line-voltage (120-347VAC) or low-voltage (57VDC) applications
- Integral DALI bus power supplies up to 150mA
- 8Z CCT Version: Tunable White control of DT8 compatible drivers
- Communicates with an nLight Wired Network
- Standard version: Supplies 40mA of Bus Power per RJ-45 port
- Remotely configurable and upgradeable
- Easy to integrate into the nLight ECLYPSE™ which provides site-wide lighting control through nLight's SensorView software and optional BMS integration
- Plenum rated
- UL 924 listed - ER option automatically overrides lights to full bright upon normal power loss
- Programmable return to last state capability

Buy American Act

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations.

Build America Buy America

Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to www.acuitybrands.com/buy-american for additional information.

Warranty

Five-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. 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.



nPS 80 DALI
nLight DALI Controller



Model #: nPS 80 DALI



ORDERING INFORMATION

Series	Emergency	Control Type	Input Voltage	Installation Requirements	Buy America(n)
nPS 80 DALI nLight DALI Controller	[blank] Standard ER UL 924 Emergency Operation, via power sense leads	[blank] Standard 8Z CCT ¹ Tunable White	[blank] Line Voltage 120-347VAC 57VDC Low Voltage 57VDC Class 2	[blank] DALI wires exit through chase nipple – Same wiring Class as input power. CLSS2 ² DALI wires exit out the side of the device, for Class 2 control wiring with Class 1 input.	[blank] Standard BAA Buy America(n) Act and/or Build America Buy America Qualified

- Notes:**
1. Only compatible with DT8 compatible LED drivers.
 2. CLSS2 is not suggested with Class 2 input.

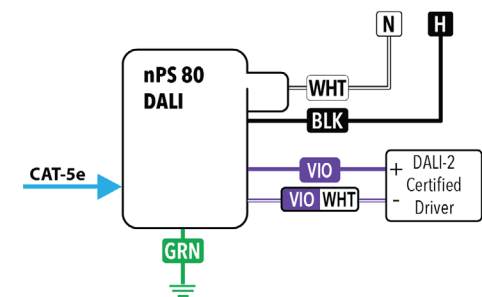
SPECIFICATIONS

Electrical	Operating Voltage	120 - 347 VAC, 50/60 Hz (Standard variant) 50 - 60 VDC (57VDC variant)
	Input Power	7 VA Max
	DALI Output Ratings	18 VDC, 150 mA maximum
	nLight Output Ratings	Standard Version: 15VDC, 40mA per RJ-45 Port ER Version: Self-powering, does not supply nLight bus power
Mechanical	Dimensions	4.72"H x 4.82"W x 1.86"D (119.89mm x 122.43mm x 47.24mm)
	Mounting	1/2" Knockout (7/8" hole)
	Color	White – Standard Red – Emergency
	Connection Type	RJ-45 nLight Network Ports (2) Line and Low Voltage DALI Leads
Environmental	Warrantied Operating Temperature	14°F to 122°F (-10°C to 50°C)
	Relative Humidity	Up to 90%, Non-Condensing
	Standards/ Ratings	RoHS, Plenum UL2043
Compliance	Certifications	DALI-2® Certified UL/cUL 916 UL/cUL 924 (ER variants only) RETILAP
	Regulatory	Buy American Act (BAA)
General	Standards/ Ratings	System Component to aid in compliance with Title 24, ASHRAE 90.1, IECC Standard - IEC 62386, part 207 (DT6) Tunable White - IEC 62386, part 209 (DT8)

WIRING (DO NOT WIRE HOT)

T568B pin/pair assignment is recommended for all CAT-5e cables. For line-voltage supply connections, use 14 AWG or larger wires rated for at least 90° C.

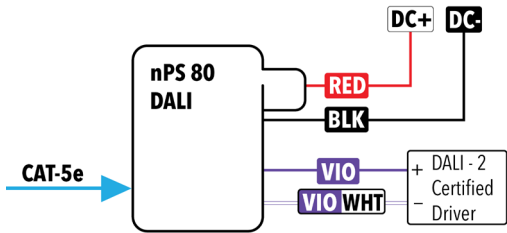
Standard (line voltage) Variant



LEGEND
BLK - Unswitched Hot 120-347VAC
WHT - Neutral
VIO - DALI+
VIO/WHT - DALI-
GRN - Ground

Note:
nPS 80 DALI communicates to DALI luminaire drivers only. Not intended for connection to DALI switches, sensors, or other DALI devices.

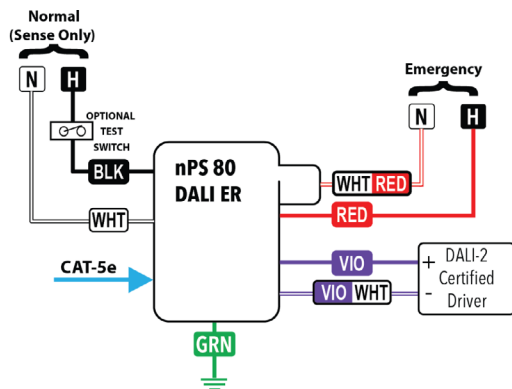
57VDC (low voltage) Variant



LEGEND
RED - 57VDC +
BLK - 57VDC -
VIO - DALI +
VIO|WHT-DALI-

WIRING FOR EMERGENCY (-ER) UNITS (DO NOT WIRE HOT)

Standard (line voltage) Variant



LEGEND

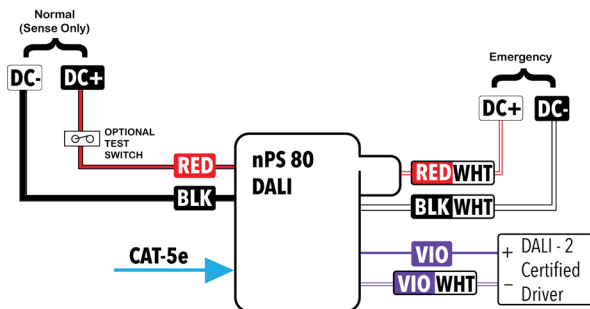
WHT/RED - Emergency Neutral
RED - Unswitched Emergency Hot 120-347VAC
BLK - Normal Hot
WHT - Normal Neutral
VIO - DALI+
VIO/WHT - DALI-
GRN - Ground

UL924 Sequence of Operation:

When Normal power is lost:

- DALI drivers are sent to full bright

57VDC (low voltage) Variant



LEGEND

RED - Norm. 57VDC +
BLK - Norm. 57VDC -
RED|WHT Emer. 57VDC +
BLK|WHT - Emer. 57VDC -
VIO - DALI +
VIO|WHT - DALI-