

OVERVIEW

The nLight nPS 80 EZ dimming pack controls LED luminaires with 0-10V LED drivers from eldoLED. This smart device results in the luminaire being “nLight enabled” - making it both addressable as well as capable of digitally communicating with other nLight enabled controls such as occupancy sensors, photocells, and WallPods. This allows for advanced operation and design flexibility ranging from stand-alone rooms to building and campus-wide networks. The nLight nPS 80 EZ ER Series Power Pack is used to control luminaires powered via an emergency circuit. It is ideal for use along side a standard nPS 80 EZ power pack that controls a zone’s normal powered lighting.

The nPS 80 EZ device also provides energy saving lumen management. With lumen management the device actively manages the luminaires LED light output such that constant lumen output is maintained over system life, thus preventing the energy waste created by the traditional practice of over-lighting.

FEATURES

- Automatically Overrides Emergency Lights On Upon Normal Power Loss
- Optimized for eldoLED drivers
- Communicates w/ nLight Network
- Remotely configurable/upgradeable
- Test/Programming button
- Extended Chase Nipple
- Plenum rated
- Programmable return to last state capability

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 EZ ER
Emergency Dimming
Power Pack



ORDERING INFORMATION

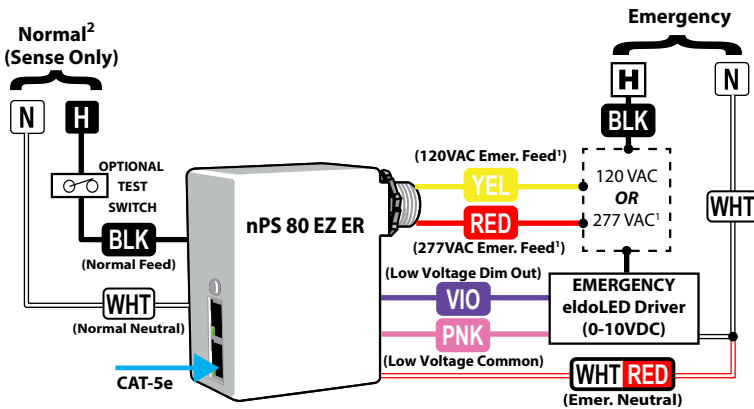
nPS 80 EZ				Example: nPS 80 EZ ER LT	
Series	Emergency	Default Mode	Voltage	Lumen Compensation	Temp/Humidity
nPS 80 EZ	[blank] Standard ER Emergency	[blank] Auto On (Switch Ch. 1) SW2 ¹ Auto On (Switch Ch. 2) SW3 ¹ Auto On (Switch Ch. 3) SW4 ¹ Auto On (Switch Ch. 4) SA ¹ Manual On (Switch Ch. 1) PA70 Auto-On to 70% (Partial-On)	[blank] 120/277VAC 347 120/347VAC	[blank] Lumen comp. (disabled by default) N80 Lumen comp. (enabled by default)	[blank] Standard LT Low temp

NOTES
1 Not available with n80 or LT Options

WIRING (DO NOT WIRE HOT)

T568B pin/pair assignment is recommended for all CAT-5e cables. Unit powers itself but does not provide any bus power to other connected nLight devices. For Supply Connections, use 14 AWG/90°C, 12 AWG/75°C or larger.

Diagram for emergency units

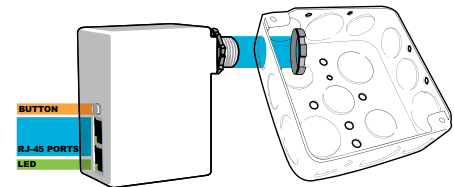


Notes

- 1) YEL - 120 VAC; RED - 277 VAC (or optional 347 VAC)
- 2) Normal Power connection can sense 120-347VAC

INSTALLATION INSTRUCTIONS

- Mount through a 1/2" knockout in any junction box or luminaire. Secure with lock nut.
- Following above wiring diagram, connect wires to line voltage feed(s), neutral(s), and load.
- Connect low voltage violet and gray dimming wires to 0-10 VDC driver leads.
Note: Wires have 600V rated insulation.
- If green wire is present, connect to earth ground.
- Interconnect unit (via RJ-45 ports) with other nLight devices in lighting zone using CAT-5e cables.



ADDITIONAL EMERGENCY (-ER) INSTRUCTIONS

OPERATION:

A nPS 80 EZ Family device does not switch power. To turn a luminaire off the device dims the 0-10VDC line down below 0.3mV in order to activate the "sleep" mode of the eldoLED driver. To control fixtures powered from emergency, the nPS 80 EZ ER emergency unit must be used and provided with a normal power feed in order to monitor when normal power has been lost. When the unit senses loss of normal power, it will automatically return the luminaire to full bright, regardless of current state or sensor status.

PUSH-BUTTON TESTING:

As long as the unit is in the lights off status and normal power is present, you are able to simulate normal power being lost by pressing and releasing the unit's push-button one time. After a few seconds the dimming level will go high for 4 secs, then return to lights off operation. A separate push-button test switch (not included) can also be wired in as shown in above diagrams.

INTERFACING WITH A FIRE ALARM PANEL:

To interface unit to a fire alarm system such that the lights are overridden upon activation of the fire alarm system, the following setup must be used. The fire alarm system must provide a normally closed relay which opens when the fire alarm system is activated. This relay must be put in series with the Black power sense line on the nPS 80 EZ ER. When the normally closed relay opens, the nPS 80 EZ ER will raise lights to full bright to provide egress lighting when the fire alarm system is activated.

SPECIFICATIONS

Electrical

Input Ratings 120/277VAC, 50/60 Hz
120/347VAC, 50/60 Hz (with 347 option)
120-277VAC, 50/60 Hz Normal Power Sense
120-347VAC, 50/60 Hz Normal Power Sense (with 347 option)

Output Ratings 75mA, 0-10VDC Dimming Sink Current

Low Voltage Output Ratings Self-powering, does not supply nLight bus voltage

Class Rating 0-10V Dimming can be wired Class 1 or 2

Standards/ Ratings Energy Management Equipment, UL916 (E167435)
Emergency Power Equipment, UL924 (E342232)

Mechanical

Dimensions 3.38"H x 2.53"W x 1.83"D (86mm x 64mm x 47mm) - does not include 1/2" chase nipple

Mounting 1/2" Knockout (7/8" hole)

Color Red

Connection Type RJ-45 nLight Network Ports (2)
Line and Low Voltage 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

General

Standards/ Ratings System Component to aid in compliance with Title 24, ASHRAE 90.1, IECC