OVERVIEW

The nLight nPP16 ER EFP family of power packs is the workhorse of an nLight system, delivering robust system performance and design versatility for commercial and industrial lighting control applications. The nPP16 ER EFP switches loads via an internal latching relay designed with robust protection from the harsh switching requirements of T5 fluorescent and LED loads. Optional 0-10V dimming outputs (D or DS options) are designed with circuit isolation and provide up to 100mA of current sinking capability. The nLight nPP16 ER EFP Series relay pack is used to switch luminaires powered via an emergency circuit. The nLight nPP16 ER EFP relay pack is ideally suited for use in conjunction with a standard nPP16 EFP power/relay pack that controls a zone's normal powered lighting.

FEATURES

- Automatically Overrides Emergency Lights On To Full Brightness Upon Normal Power Loss
- Communicates w/ nLight Network
- Self-Contained Relay Switches Line Voltage Load
- Optional out-of-box vacancy and partial-on modes
- Remotely Configurable/Upgradeable
- Test/programming button
- Configurable Relay Logic
- Extended Chase Nipple
- Plenum rated
- Includes fuse integrated to relay wirelead for protection from load faults
- Meets NEMA410 ratings for LED/electronic ballast inrush
- 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.

ds design select

Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit <u>www.acuitybrands.com/designselect</u>. *See ordering tree for details



nPP16 ER EFP Emergency Relay Pack



Model #: nPP16 (D) ER EFP





ORDERING INFORMATION

Series	Dimming	Emergency	Fault Protection	Default Mode
nPP16 Power/Relay Pack	[blank]NoneD0-10VDC Dimming output (via chase nipple)DS0-10VDC Dimming output (via side slot)	ER UL924 Emergency Operation	EFP External Fault Protection	[blank]Auto On (Switch Ch. 1)SW2Auto On (Switch Ch. 2)SW3Auto On (Switch Ch. 3)SW4Auto On (Switch Ch. 4)SAManual On (Switch Ch. 1)SA2Manual On (Switch Ch. 2)PA70Auto On to 70% (Partial On)1PAAuto On to 50% (Partial On)1

Voltage		Temp/humidity		Buy America(n) ²	
[blank] 230 347	120/277VAC 220-240VAC 120/347VAC	[blank] LT	Standard Low temp	[blank] BAA	Standard Buy America(n) Act and/or Build America Buy America Qualified

ACCESSORIES	
NPP FUSE J10	Replacement Fuse (10 Pack)

Notes:

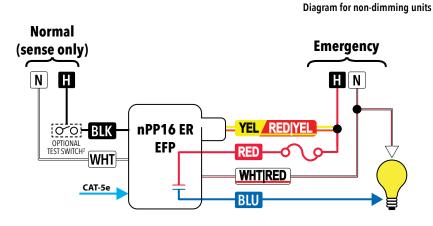
Requires D or DS option
Not available with 230, 347, or LT options

SPECIFICATIONS

General	Standards/ Ratings	System Component to aid in compliance with Title 24, ASHRAE 90.1, IECC
	Standards/ Ratings	
Environmental	Warrantied Operating Temperature	Standard: 14°F to 122°F (-10°C to 50°C), Standard: 14°F to 113°F (-10°C to 45°C) if enclosed within a junction box LT option: 4°F to 122°F (-20°C to 50°C)
	Color Connection Type	Red RJ-45 nLight Network Ports (2) Non-Dimming Model: Line Voltage Leads Dimming Model: Line and Low Voltage Leads
	Mounting	1/2" Knockout (7/8" hole)
Mechanical	Dimensions	3.38"H x 2.53"W x 1.83"D (86mm x 64mm x 47mm)-does not include ½" chase nipple
	•	0-10V Dimming can be wired Class 1 or 2 Energy Management Equipment, UL916 (E167435), Emergency Power Equipment, UL924 (E342232)
		Neither supplies nor consumes nLight bus power
	Relay Type	Latching
	Output Ratings	120-347VAC, 50/60 Hz, 16A - Tungsten, Standard Ballast, Electronic Ballast, General Purpose, 120VAC, 50/60 Hz, 1/2 HP - Motor, SCCR: 5KA, 100mA, 0-10VDC Dimming Sink Current
Electrical	Input Ratings	120/277VAC, 50/60 Hz, 220-240VAC, 50/60Hz (with 230 option), 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)

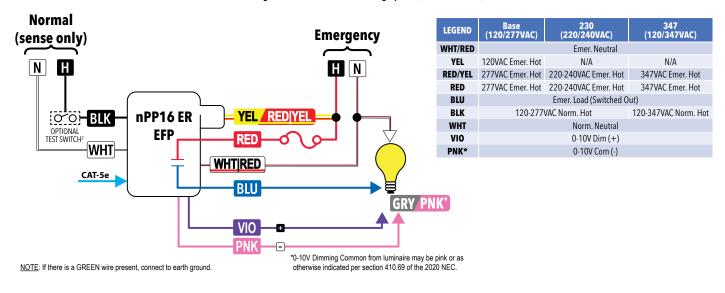
WIRING

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 or larger wires rated for at least 90° C.



Base (120/277VAC)	230 (220/240VAC)	347 (120/347VAC)		
Emer. Neutral				
120VAC Emer. Hot	N/A	N/A		
277VAC Emer. Hot	220-240VAC Emer. Hot	347VAC Emer. Hot		
277VAC Emer. Hot	220-240VAC Emer. Hot	347VAC Emer. Hot		
Emer. Load (Switched Out)				
120-277VAC Norm. Hot		120-347VAC Norm. Hot		
Norm. Neutral				
	120VAC Emer. Hot 277VAC Emer. Hot 277VAC Emer. Hot	(120/277VAC) (220/240VAC) Emer. Neutral Emer. Neutral 120VAC Emer. Hot N/A 277VAC Emer. Hot 220-240VAC Emer. Hot 277VAC Emer. Hot 220-240VAC Emer. Hot 277VAC Emer. Load (Switched O 120-277VAC Norm. Hot		

Diagram for units with a dimming option (-D or -DS suffix)



Notes

1. Connect to either YEL, or RED|YEL, feed ONLY and cap off unused wire.

2. Can also be used as fire alarm interface. Please reference "INTERFACING

WITH A FIRE ALARM PANEL" instructions below

ADDITIONAL EMERGENCY (-ER) SPECIFICATION INSTRUCTIONS

When normal power sense leads have absence of voltage, the relay closes and 0-10V dimming is set to high end trim level.

PUSH-BUTTON TESTING:

As long as the relay is in the open (lights off) position 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 relay will close for 4 seconds, then open back up and return to normal 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 relay is overriden closed (lights on) upon activation of the fire alarm system, the fire alarm system must provide a normally closed line-voltage rated 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 nPP16 ER EFP. When the normally closed relay opens, the nPP16 ER EFP will close its load relay to provide egress lighting when the fire alarm system is activated.