Catalog Number: | Date: | Project:

OVERVIEW

The PP16 SHUNT EFP bypass relay operates as an automatic bypass shunt for control devices (such as other relay packs, toggle switches, and phase dimming packs) that are controlling emergency powered lighting loads. The relay is open when normal power is present, but will latch closed if normal power is lost. An elongated chase nipple facilitates attachment directly to a junction box or fixture through a ½" knockout. A push button is also provided which allow users the ability to test the emergency operation.

For a low voltage shunt, please visit our PP5LV shunt power pack solution:
https://www.acuitybrands.com/products/detail/1171701/sensorswitch/pp5lv-shunt/pp5lv-shunt-bypass-relay

FEATURES

- Automatically overrides emergency lights on upon loss of Normal Power circuit
- Test button
- Mounting via chase nipple
- Plenum rated
- Includes fuse integrated to relay wirelead for protection from load faults
- Meets NEMA410 ratings for LED/electronic ballast inrush

SPECIFICATIONS

Size:	(not incl. 1/2" chase nipple) 3.38" H x 2.53" W x 1.83" D (8.59 cm x 6.43 cm x 4.65 cm)
Weight:	6 oz
Mounting:	1/2" knockout (7/8" hole) on box or fixture
Color:	Red
Input Ratings:	120/277 VAC, 50/60 HZ
Output Ratings:	120/277VAC, 50/60 Hz, 16A – Tungsten, Standard Ballast, Electronic Ballast, General Purpose, 120VAC, 50/60 Hz, 1/2 HP – Motor, SCCR: 5KA
Relay Type:	Latching
Listings:	Emergency Management Equipment, UL916 (E167435) Emergency Power Equipment, UL924 (E342232)

ROHS Compliant

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.

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 www.acuitybrands.com/designselect.
*See ordering tree for details

AcuityControls
Sensor Switch

PP16 SHUNT EFP
Bypass Relay

Design Select options indicated by this color background.

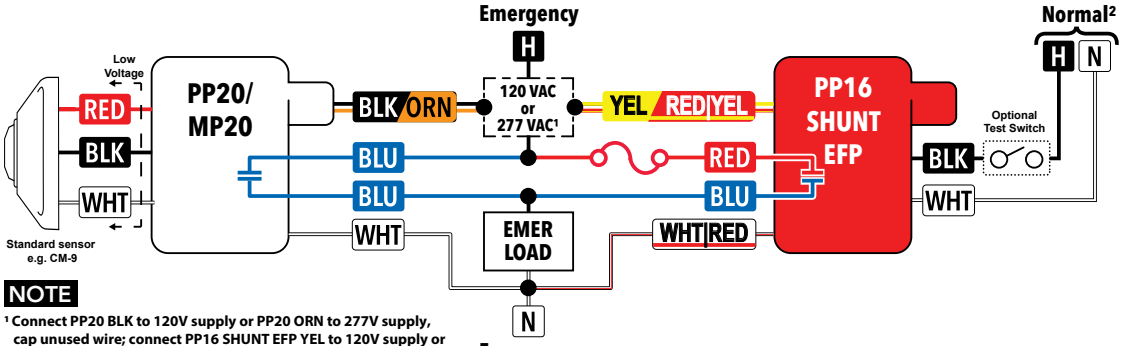
ORDERING INFORMATION

PP16 SHUNT EFP		Example: PP16 SHUNT EFP
Series	**Circuit Protection**	**Temperature/Humidity**
PP16 SHUNT Bypass Relay Pack	EFP External Fault Protection	[blank] Standard LT Low Temp

WIRING

For Supply Connections, use 14 AWG or larger wires rated for at least 90° C.

Bypass Configuration of a PP20 Power Pack

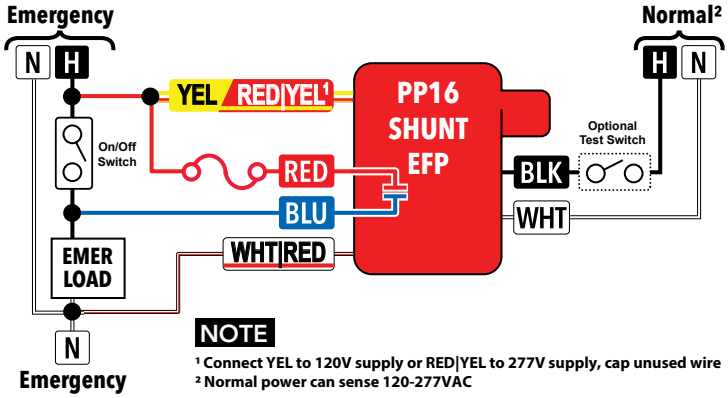


LEGEND
YEL - 120V Emer. Hot
RED|YEL - 277V Emer. Hot.
WHT|RED - Emer. Neutral
RED - Emer. Hot (Switched In)
BLU - Emer. Load (Switched Out)
BLK - Norm. Hot
WHT - Norm. Neutral

NOTE

¹ Connect PP20 BLK to 120V supply or PP20 ORN to 277V supply, cap unused wire; connect PP16 SHUNT EFP YEL to 120V supply or PP16 SHUNT EFP RED|YEL to 277V supply, cap unused wire
² PP16 SHUNT EFP normal power input can sense 120-277VAC

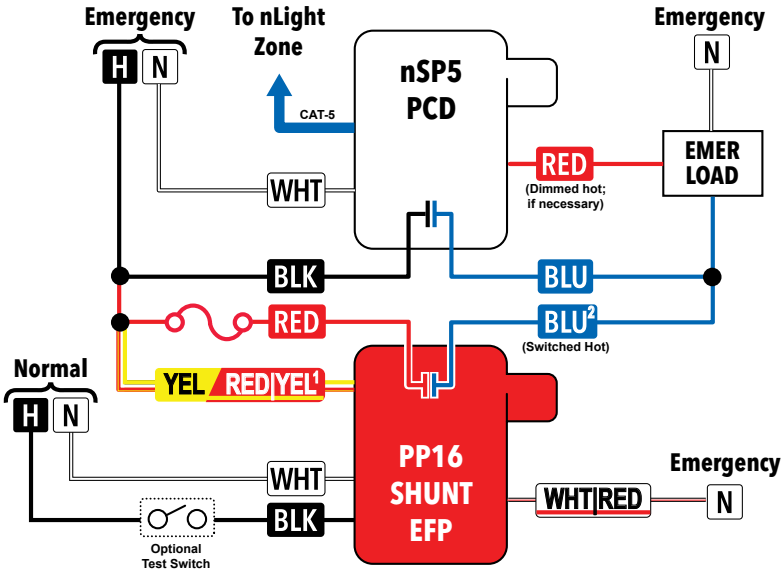
Bypass Configuration of a Toggle Switch



NOTE

¹ Connect YEL to 120V supply or RED|YEL to 277V supply, cap unused wire
² Normal power can sense 120-277VAC

Bypass Configuration of a nLIGHT Phase Control Dimming Pack (nSP5 PCD)



NOTE

¹ Connect YEL to 120V supply or RED|YEL to 277V supply, cap unused wire
² Diagram shown for nSP5 PCD 3W. If using nSP5 PCD 2W/MLV/ELV 120, PP16 SHUNT EFP blue load wire will connect to nSP5 PCD red wire

ADDITIONAL SPECIFICATION INSTRUCTIONS

PUSH-BUTTON TESTING:

As long as the primary control device or switch 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 overridden 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 PP16 SHUNT EFP. When the normally closed relay opens, the PP16 SHUNT EFP will close its load relay to provide egress lighting when the fire alarm system is activated.