

OVERVIEW

The PP5LV SHUNT bypass relay operates as an automatic bypass shunt for low voltage class 2 control devices 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. When using INV option the opposite holds true. The relay is closed when normal power is present, but will latch open if normal power is lost. An elongated chase nipple facilitates attachment directly to a junction box or fixture through a 1/2" knockout. A push button is also provided which allow users the ability to test the emergency operation.

For a line voltage shunt, please visit our PP16 shunt power pack solution:  
<https://www.acuitybrands.com/products/detail/460876/sensorswitch/pp16-shunt/bypass-relay>

FEATURES

- Automatically overrides emergency lights on upon loss of Normal Power circuit
- Test button
- Mounting via chase nipple
- Plenum rated
- Meets NEMA410

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
Switch Ratings Maximum:	30VDC; 500mA
Relay Type:	Latching
Listings:	UL916, UL 924 (E167435)

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](http://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.



PP5LV SHUNT  
Bypass Relay



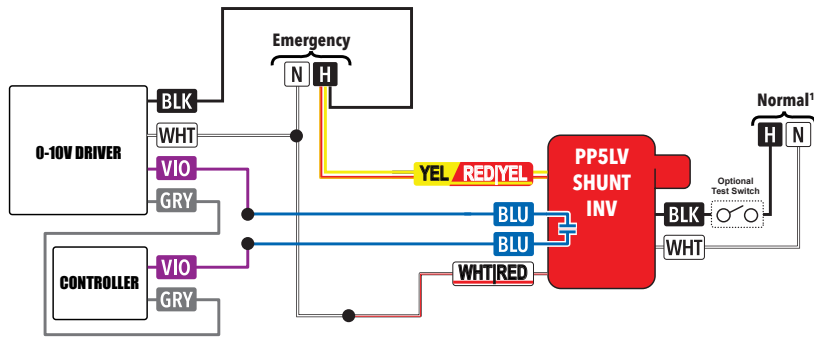
ORDERING INFORMATION

PP5LV SHUNT			Example: PP5LV SHUNT
Series		Operating Mode	Temperature/Humidity
PP5LV SHUNT	Bypass Relay Pack	[blank] Standard	[blank] Standard
		INV Inverted	LT Low Temp

## WIRING

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

### Bypass Configuration of a 0-10V Controller



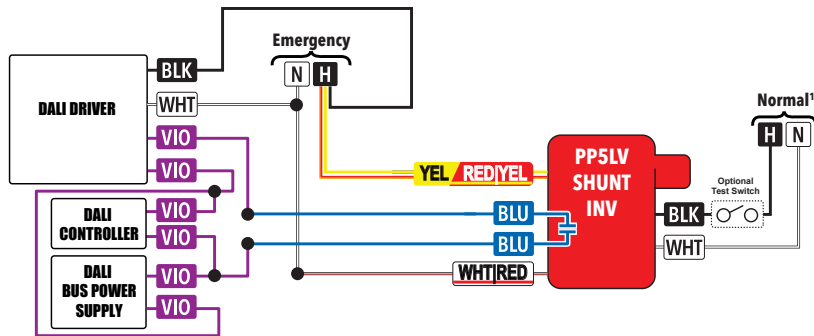
#### NOTE

<sup>1</sup> PP5LV SHUNT EFP normal power input can sense 120-277VAC

#### LEGEND

YEL - 120V Emer. Hot  
RED|YEL - 277V Emer. Hot  
WHT|RED - Emer. Neutral  
BLU - Emer. Relay (Switched)  
BLK - Norm. Hot  
WHT - Norm. Neutral

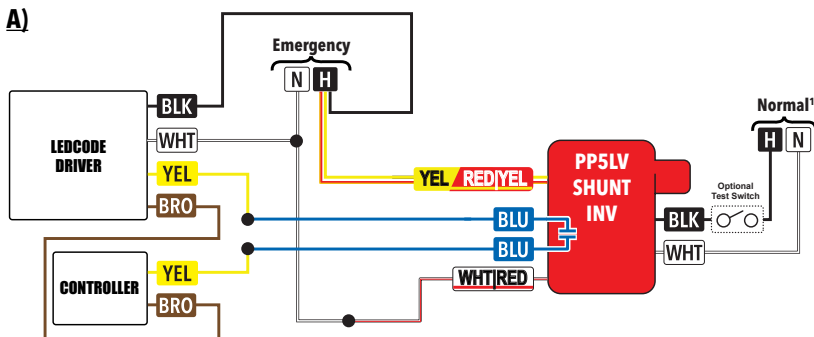
### Bypass Configuration of a DALI CONTROLLER



#### NOTE

<sup>1</sup> PP5LV SHUNT INV normal power input can sense 120-277VAC

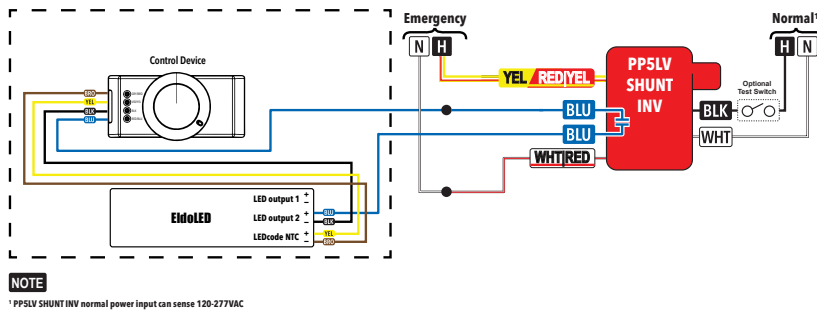
### Bypass Configuration of a Generic LEDcode Controller



#### NOTE

<sup>1</sup> PP5LV SHUNT INV normal power input can sense 120-277VAC

**B)**



## **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 pushbutton 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 control. When the normally closed relay opens, the PP5LV Shunt will close its load relay to provide egress lighting when the fire alarm system is activated.