imtra
MARINE LIGHTING

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Imtra Portland Bi-Color PowerLED

Features & Benefits

The Portland Bi-Color PowerLED recessed spot provides the end user a convenient way to switch from bright white (functioning) light to low-level red (navigation) light in a single fixture using a single 3-position switch. It is designed to give the same high level of (white LED) luminosity as the standard Portland PowerLED. Therefore when turned on to white LED mode, it is indistinguishable from the other Portland PowerLEDs that may be installed in the same ceiling. It also features full dimming capacity allowing it to be controlled in the same circuit as the other standard Portland PowerLEDs. These important features distinguish it from the other multi-color LED fixtures on the market which mainly provide entertainment lighting in lieu of true "functional" lighting.

Installation

It is recommended that the Portland Bi-Color PowerLED be installed according to the specifications and recommendations included in Imtra's "PowerLED and PWM Dimmer Installation & Operation Manual". However, the wiring and operating instructions do have some variations.

Wiring Details

The Portland Bi-Color PowerLED may be wired to allow dimming of the primary (Warm White or Cool White) LED light and normal (on/off) operation of the red LED light. This is achieved by using the illustrated wiring method in Figure One.

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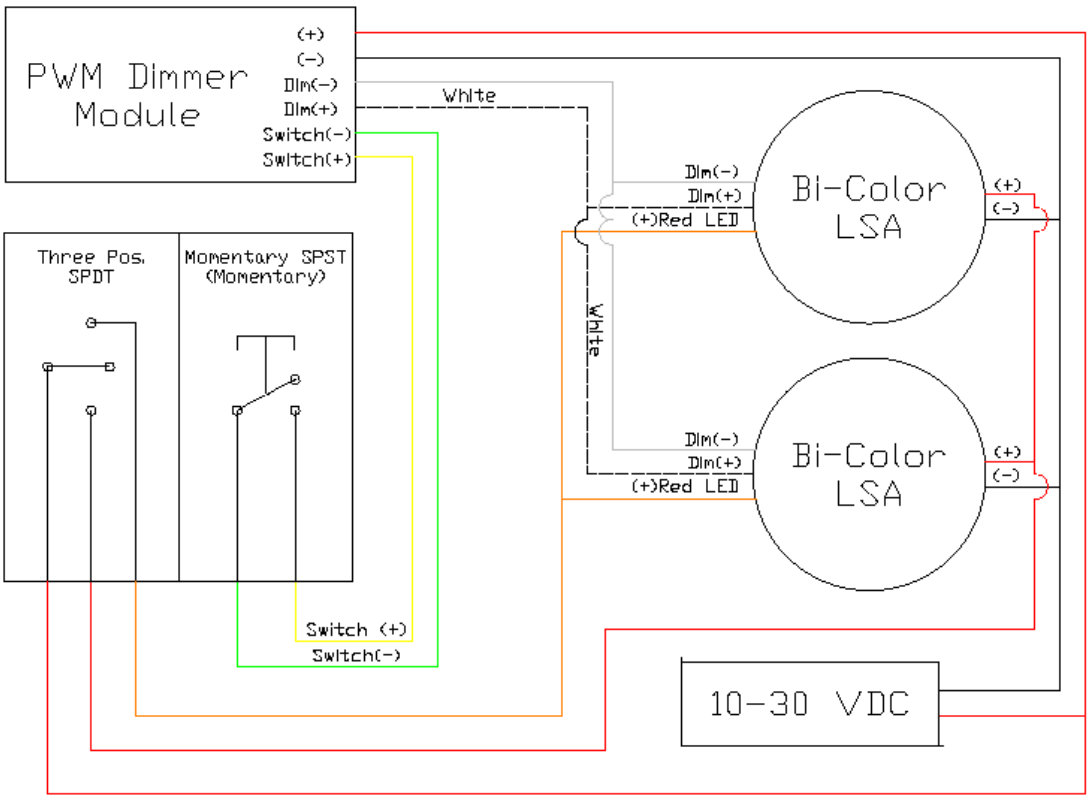

Figure One-Portland Bi-Color wiring schematic for dimming

This wiring scheme will enable the user to dim the primary light up and down independently. When the three position switch is switched to the opposite position, the red light will come on. This will also deactivate the white LED light, providing an interlock and preventing the primary light from coming on when the Red LED light is on.

Wire Color Code	
Red	Positive Lead for Dimmer Module and White LED
Black	Negative Lead for Dimmer Module and LED Fixture
Orange	Positive Lead for Red LED
White	Dim (+)
Grey	Dim (-)
Yellow	User Input (Switch +)
Green	User Input (Switch -)

If dimming is not desirable, then the light may be wired following the schematic below.

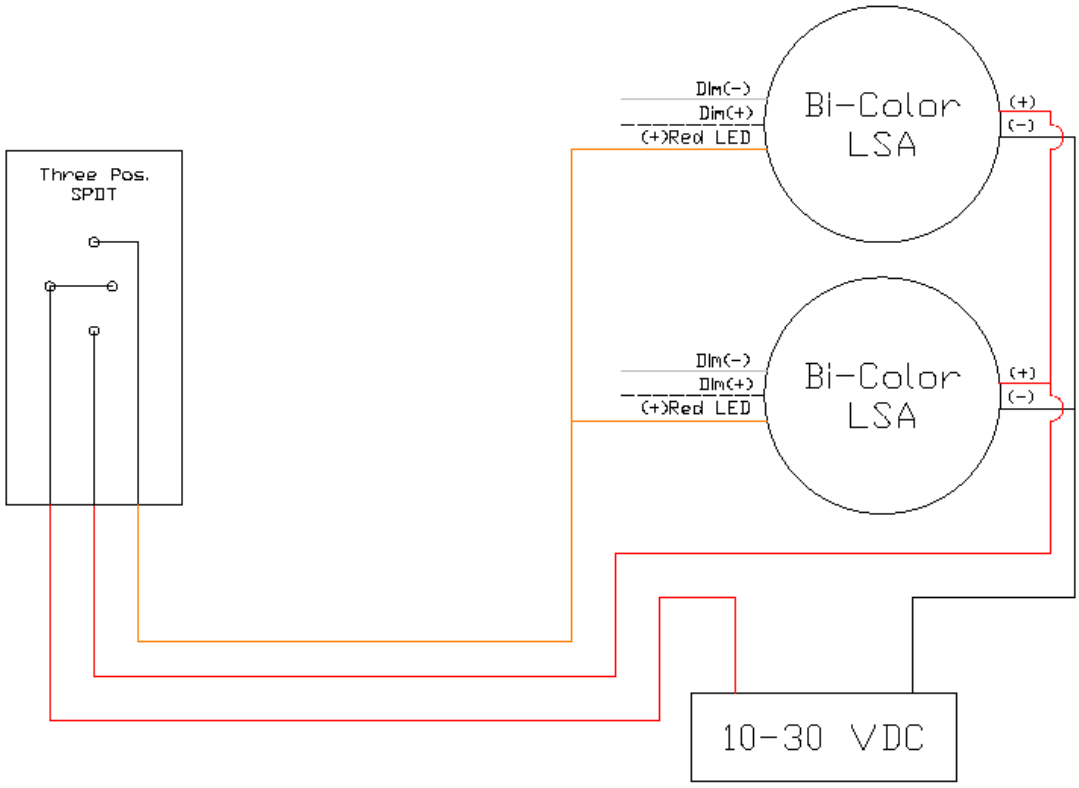

Figure Two- Portland Bi-Color wiring schematic for non-dimming

This wiring scheme will provide the same interlock to prevent the primary light and the red light from coming on at the same time without the ability to dim the primary light.

Gewiss Compatible Switches			
Chorus		**System**	
Three Position	Momentary	Three Position	Momentary
GW10121	GW10132	GW20559	GW20510
GW12121	GW10172	GW21559	GW21510
GW14121	GW12132	GW20528	GW20513
	GW12172	GW21528	GW21513
	GW14132		GW20521
	GW14172