

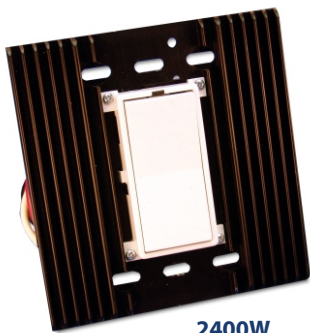


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High Power Dimmers



Product Overview



2400W

Powerline Control Systems is proud to present its WS1D Wall Switch Dimmer - the first combination wall switch/light dimmer to incorporate its patented Universal Powerline Bus (UPB™) two-way powerline communication technology. UPB™ is the perfect **low cost alternative to hard-wired and RF** control technologies, requiring **no new wires** and providing **ultra-reliable communications** between transmitters and receivers.

The Wall Switch Dimmer is a high quality light dimmer packed full of features. It comes in several variations (1500W, 2400W) and colors and can be set for either Dimming or On/Off Only operation. All models can control **incandescent, fluorescent, or magnetic low voltage loads.**

The Wall Switch Dimmer can be controlled in three different ways: by its local rocker switch, by remote "slave" switches, and by UPB™ compatible controllers.

The Wall Switch Dimmer is designed to be an integral part of PCS's **UPB™ Lighting Control System** and it is also compatible with many other lighting control systems. The PCS UPB™ Lighting Control System allows the designer/installer to implement up to **16 pre-set scenes** for each circuit and over 250 scenes per house. When initial configuration is complete, **a single push of a button** is all you need to activate any group of lights (or control points) simultaneously. Each scene's pre-set lighting levels can be easily adjusted using PCS' innovative programming system (or by using a UPB™ Setup Tool).

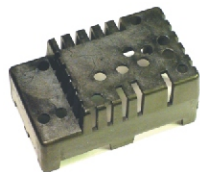
The Wall Switch Dimmer is **packed full of customizable features** that are all configured using a UPB™ Setup Tool. Top and bottom rocker switch actions, fade rates, and LED operations can all be customized. Besides just receiving UPB™ control commands, the Wall Switch Dimmer can be configured as a **transmitter too**. It can be configured to transmit many kinds of commands and status information upon rocker switch events.

The Wall Switch Dimmer is a **"master"** and can be connected to one or more inexpensive remote "slave" switches to provide **three-way** or **multi-way** control. The RWS Remote Wall Switch looks and operates the same as the Wall Switch Dimmer and can be run up to 1000 ft. away.

PCS's philosophy is to produce dimmers with the highest possible quality and reliability. Our dimmers use triacs with much higher surge ratings than those used in 1500W/2400W dimmers produced by any other manufacturer. PCS also incorporates a high-temperature slotted black box for better cooling and a beefed-up 28uH noise reducing toroid.



1500W



High Temp
Back Box

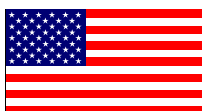


High Capacity
Toroids



High Power
Triacs

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Made in USA

Features

- **True Rocker Action**
Top of rocker controls On or Bright and bottom of rocker controls Off or Dim.
- **200 Dimming Steps**
Dimmers provide 200 dimming step giving very eye-pleasing light fading effects.
- **On/Off Only Operation**
Can be configured to control non-dimmable loads such as fans, motors and lights powered by magnetic transformers.
- **1500/2400 Watt Power Delivery**
Dimmers come in two power versions depending on your needs: 1500 Watts and 2400 Watts.
- **Multi-Way Control**
Can be remotely controlled by one or more Decora-style "slave" switches up to 1000 ft. away.
- **Low Cost Home Automation**
UPB based products are a fraction of the expense of hardwired and RF products.
- **Scene Control**
Stores 16 pre-set light levels and fade rates that can be activated by a single UPB™ command.
- **Variable Fade Rates**
Fade rates for rocker switch operation and all scenes can be set between instant-on and 1 hour.
- **Security Flashing Mode**
Setting can internally flash lights on and off when triggered by a single UPB™ command.
- **Multi-Colored LED**
LED provided for night-light as well as for programming and powerline signal monitor.
- **Advanced Programming**
Using a UPB Setup Tool, allows the user to customize rocker switch actions, LED operations, and many other features.
- **Highest Quality**
PCS's philosophy is to produce dimmers with the highest possible quality and reliability. Our dimmers use triacs with much higher surge ratings than those used in 1500W/2400W dimmers produced by any other manufacturer. PCS also incorporates a high-temperature slotted black box for better cooling and a beefed-up 28uH noise reducing toroid.
- **Anodized Frame**
Black anodized mounting strap for improved heat transfer and corrosion resistance.
- **PCS Reputation**
The PCS reputation is unmatched in the Home Automation market representing superior quality, high reliability, and excellent customer service.

Ordering Information

• Part Number

WS1D-15-X (1500W Dimmer)

WS1D-24-X (2400W Dimmer)

RWS-H-X (Remote "Slave" Switch)

X (color) = White (W), Ivory (I)

Installation

• Pre-Wire

Mount in an appropriate wall box. Pull power wiring to include line and neutral and load. Run two #14 or #12 wires to each remote slave switch location. Remotes require no neutral.

• Mounting

Install dimmer and remote wall switch with standard wall switch hardware and a Decora-style faceplate.

Additional Information

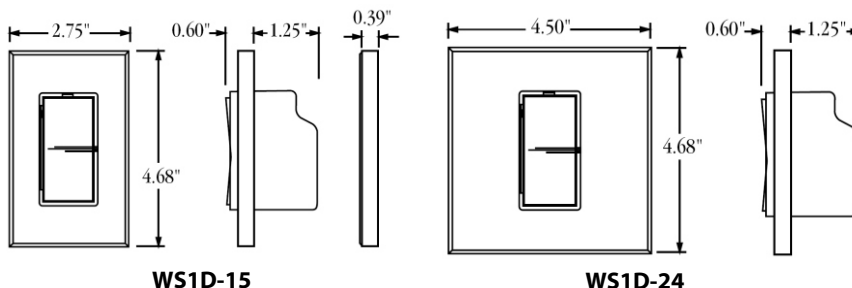
• Warranty

Five-year Limited Warranty

• UL Listing

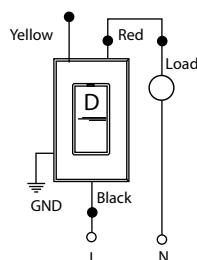
Meets UL 1472, UL 508

Dimensions

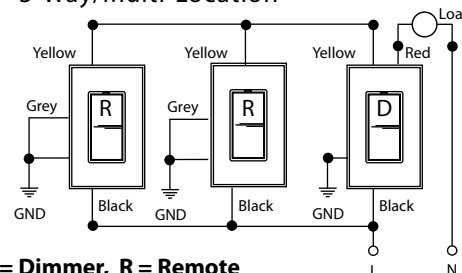


Wiring Diagram

Single Pole



3-Way/Multi-Location

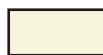


Key: D = Dimmer, R = Remote

Colors



White



Ivory

Model Number	WS1D-15	WS1D-24
Dimming or Non-dimming Setting	Yes	Yes
Max Load Normal Wall Box	1000 W / 8.0A / 750VA	1800 W / 15.0A / 1350VA
Derated for 1 Side Removed	800W / 6.4A / 600VA	1600W / 13.3A / 1200VA
Derated for 2 Sides Removed	700W / 5.8A / 525VA	1400W / 11.7A / 1050VA
Max Load Large Wall Box*/ LCP**	1500 W / 12.5A / 1125VA	2400 W / 20.0A / 1800A
Derated for 1 Side Removed	1200W / 10.0A / 900VA	2000W / 16.0A / 1500VA
Derated for 2 Sides Removed	1000 W / 8.0A / 750VA	1600W / 13.3A / 1200VA
Min Load	60 W	60 W
Triac Current Rating	30A	40A
Connections	14 AWG Wire	12 AWG Wire
Dimensions	4.68H X 2.75W X 1.25D In	4.68H X 4.5W X 1.25D In
Weight	0.5 Lb.	0.7 Lb.
Input Power	120 VAC 60 \pm 3Hz	120 VAC 60 \pm 3Hz
Operating Temp	-40 F to 104 F	-40 F to 104

*Large Wall Box > 40 CU IN (1500W), > 90 CU IN (2400W) ** LCP PCS Lighting Control Panel

Made in USA. Patented.



Powerline Control Systems, Inc. 19201 Parthenia St., Ste. J, Northridge, CA 91324
Tel: 818-701-9831 Fax: 818-701-1506 www.pcslighting.com