The Wall Switch Relay (WS1R) is used to manually or remotely control higher wattage 120VAC devices such as fluorescent lights, ceiling or whole house fans, and pool/pond pumps up to 3 HP. It installs like a traditional wall switch with the exception of requiring a connection to a neutral wire. Available in seven colors and a rating of either 10 or 20 Amps.

The WS1R provides fingertip, ON/OFF local control by using the Decora-style rocker switch of existing lighting, while adding the capability of being controlled by UPB® two-way powerline communication technology anywhere in your home. The Wall Switch Relay is also capable of transmitting UPB® messages when the rocker switch is turned on or turned off.

Three-way (or multi-way) light switch functionality can be obtained by connecting one (or more) RWS “remote” switches (sold separately) to its yellow traveler wire.

The WS1R can also be configured to be a member of up to 16 Links/scenes or as a two-button transmitter. Select from a list of 16 different commands to be transmitted when each rocker button (top or bottom) is tapped, held or released. This allows the WS1R to remotely control other devices or update indicators (LEDs on our keypads).

Like all PulseWorx devices, the WS1R may have basic functions programmed manually or by using PCS’s free UPStart Configuration Software. UPStart enables configuring such parameters as Network Name, Network ID, Unit ID, Room name, Device name, default LED colors, auto shut-off time, etc. As well as test the operation and communication strength of the device.

The professional grade standards include a 20 Amp Relay capable of 100,000 relay cycles with ambient operating temperatures of -40°F to 140°F which is backed by a 5 year warranty.

FEATURES

- WS1R-10 Max Load 10A
- WS1R-20 Max Load 20A
- Attractive Low-profile decorator style design
- Available in seven colors: White, Light Almond, Almond, Ivory, Black, Brown or Gray
- Three-Way Ready
- Member of up to 16 Scenes
- Auto off Timer built in 1-240 Min
- Receive Sensitivity Adjustable
- Mounts in a standard single or multi-gang wall box
- Power Outage Backup
  - Permanent scene retention
  - Power failure restore to last state
- Safety tested for USA and Canada to ETL tested to UL-508-2010  CSA C22.2 #14-2010
- 5 Year Warranty
- Designed and Made in the USA
MODELS
WS1R-10-X*  10A Relay Switch
WS1R-20-X*  20A Relay Switch
RWS-X*      Remote Wall Switch
* X = Color  White (W), Almond (A),
Light Almond (LA), Ivory (I),
Black (B), Brown (BR),
Gray (G).

SPECIFICATIONS
Power Requirements  Primary: 120 Volts AC, 50/60Hz Single Phase
Neutral Wire       Required
Connections         WSR-10  16 AWG gauge  105 C insulation
                    WSR-20  14 AWG gauge  105 C insulation
                    Black = Hot/Line
                    White = Neutral
                    Red = Load
                    Ground = 18 AWG stranded copper
Standby Power      < .8 Watts
Load Type          Relay on and off
Maximum load       WSR10 = 10A resistive magnetic or inductive,
                    Incandescent up to 800W
                    WSR20 = 20A resistive magnetic or inductive,
                    incandescent up to 1800W
Environmental      Indoor Use Only
Temperature:       -40° to 140°F (-40° to 60°C)
Humidity:          10% to 90% RH (non-condensing)
Certifications    Safety tested for USA and Canada
                    ETL tested to UL508 UL-508-2010
                    CSA C22.2 #14-2010

MECHANICAL
Paddle Type        Decorator Style True Rocker
Set Button         Paddle
Wire Nuts          4 included
Mounting           Single Gang or multiple-ganged junction box
Weight             4.55 oz.
Warranty           5 years
US Patent No.      6,734,784; 6,784,790; 7,265,654; 7,688,183.
                    U.S. and foreign patents may be pending.