

## SPECIFICATIONS (WPD)

Electrical Specifications	Input Ratings	120VAC, 60Hz
	Max Dimming Load (Incandescent)	600W
	Max Dimming Load (LED/CFL)	2A (150W)
Mechanical	Supply Connection	14 AWG Wires
	Wire Strip Length	16mm (5/8 in)
	Screw Torque	20 lbf-in
Environmental	Warrantied Operating Temperature	32° to 104° F (0° to 40° C)
	Standards/ Ratings	UL 1472, NEMA SSL 7A

## FEATURES

- Perfect Replacement for regular wall ON/OFF & Dim switch, 120VAC
- Manual ON/OFF & Dim control of any permanently installed incandescent, dimmable LED, and CFL lamp fixture
- Preset light level option allows the dimmer will turn on to the light level that it was adjusted to the previous time when the light was on
- Can be used for single pole or 3-way control with a regular ON/OFF mechanical switch (sold separately)
- Air-Gap Switch feature meets UL requirements and disconnects power from load locally.
- Includes screwless wall plate E236938.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### IMPORTANT SAFEGUARDS

BE SURE TO READ THE INSTRUCTION CAREFULLY BEFORE INSTALLATION. THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR ANY PRODUCT DAMAGE THAT DOES NOT FOLLOW THESE INSTRUCTIONS

- WET HANDS ARE STRICTLY PROHIBITED.
- MUST WORK STRICTLY ACCORDING TO THE RATED LOAD.
- DO NOT CONTINUE TO WORK AFTER SELF-DISASSEMBLY OF ANY NATURE AND/OR DAMAGE BY EXTERNAL FORCES.

**READ AND FOLLOW ALL SAFETY INSTRUCTIONS!**  
**SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER AFTER INSTALLATION**



Expanding the boundaries of lighting™



Full warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

### WARRANTY

5-year limited warranty.

**Note:** Specifications subject to change without notice.

Actual performance may differ as a result of end-user environment and application.

- To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards please read all warnings and instructions included with and on the fixture box and all fixture labels.
- Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.
- Installation and service should be performed by a qualified licensed electrician.
- Maintenance should be performed by qualified person(s) familiar with the products' construction & operation & any hazards involved. Regular maintenance programs recommended.
- **DO NOT INSTALL DAMAGED PRODUCT!** This product has been properly packed so that no parts should have been damaged during transit. Inspect to confirm. Any part damaged or broken during or after assembly should be replaced.



#### CAUTION: RISK OF PRODUCT DAMAGE

- ✓ Electrostatic Discharge (ESD): ESD can damage product(s). Personal grounding equipment should be worn during all installation or servicing of the unit.
- ✓ Do not touch individual electrical components, as this can cause ESD and affect product performance.
- ✓ Do not stretch or use cable sets that are too short or are of insufficient length.
- ✓ Do not tamper with contacts.
- ✓ Do not modify the product.
- ✓ Do not change or alter internal wiring or installation circuitry.
- ✓ Do not use product for anything other than its intended use.

#### WARNING - RISK OF ELECTRIC SHOCK

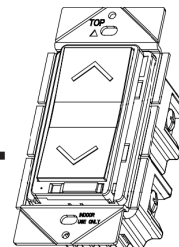
- ✓ Disconnect or turn off power before installation or servicing.
- ✓ Verify that supply voltage is correct by comparing it with the product information.
- ✓ Make all electrical and grounded connections in accordance with the National Electrical Code (NEC) and any applicable local code requirements.
- ✓ All wiring connections should be capped with UL approved recognized wire connectors.
- ✓ All unused connector openings must be capped.

#### WARNING - RISK OF BURN or FIRE

- ✓ Do not exceed maximum wattage, ratings, or published operation conditions of product.
- ✓ Do not overload.
- ✓ Follow all manufacturer's warnings, recommendations and restrictions to ensure proper operation of product.

#### CAUTION - RISK OF INJURY

- ✓ Wear gloves and safety glasses at all times when installing, servicing or performing maintenance.



## WPD BASIC OVERVIEW

The Sensor Switch **WPD** is an economical commercial/residential grade forward phase paddle dimmer for LED, CFL, Incandescent, and Dimmable LED compatible loads. Easy configuration is a key feature of this device, allowing the user or installer to effortlessly develop energy saving illumination strategies by setting high and low brightness levels or returning to its default state when desired. Its elegant design does not compromise function. This UL 1472 Listed and NEMA SSL 7A solution accepts line 120VAC voltage from a single device, including a sliding Air-Gap switch to disconnect power while replacing bulbs. The **WPD** also works as works with a mechanical switch for 3-Way wiring.

## TYPICAL INSTALLATION

- **WARNING:** To avoid fire, shock, or death. High Voltage - Turn off power at circuit breaker or fuse and test that power is off before wiring.
- **CAUTION:** To reduce the risk of overheating and possible damage to other equipment, **DO NOT** install to control a receptacle, a motor-operated appliance, a fluorescent lighting fixture, or a transformer supplied appliance.
- Remove wall plate and existing switch mounting screws.
- Carefully remove the existing switch from the switch box.
- Disconnect the wiring from the existing switch.
- Connect the dimmer switch as shown in the wiring diagram: Black lead to hot wire, white lead to neutral wire, red lead to load wire, green lead to ground wire.
- Check connections to be sure they are tight, and no bare conductors are exposed.
- Insert the WPD dimmer switch into the standard outlet box carefully.
- Make sure the WPD dimmer switch supplied screws in designated location.
- Attach the wall plate.
- Restore power at the circuit breaker and test the system.

### Air Gap Switch

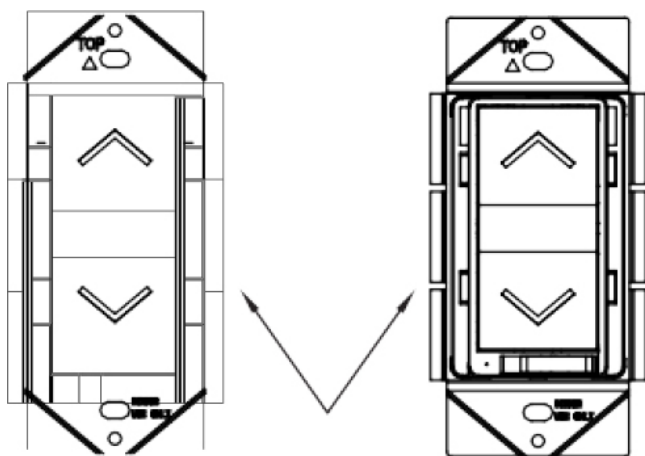
During normal operation, there is a small amount of power passing through the switch to the load even when the dimmer switch is turned off. The WPD has an air gap switch on the lower right side to completely disconnect load power.

Slide the air gap switch to left to disconnect the power while replacing light bulbs and slide it to right for normal operation. The air gap switch must be in one of two positions to function as intended.

## MULTI GANG INSTALLATION

When installing more than one control in a multi-gang wall box, it may be necessary to remove side tabs before installing (see image below). Bending tabs back and forth using pliers will easily break tabs. Tab removal will reduce maximum load capacity.

When using the Dimmer to control LED/CFL lights in conjunction with another Dimmer to control Incandescent /Halogen lights follow this Derating Chart (below right) for Maximum capacity on EACH device.



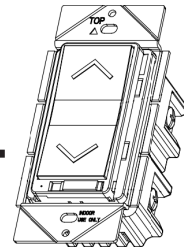
Tabs Removed for Multi-gang Installation

Combined Wattage of ALL LED/CFL bulbs on 1 dimmer is:	Then the Maximum COMBINED Wattage for the Incandescent/Halogen bulbs on EACH attached dimmer:		
	If NO Tabs are removed, then Max Wattage is:	If 1 side of Tabs are removed, then Max Wattage is:	If 2 sides of Tabs are removed, then Max Wattage is:
0W	600W	500W	400W
1-25W	500W	400W	300W
26-50W	400W	300W	200W
51-75W	300W	200W	100W
76-100W	200W	100W	50W
101-125W	100W	50W	0W
126-150W	0W	0W	0W

If you are using ONLY LED/CFL bulbs on ALL Dimmers, DO NOT USE this Derating Chart. Dimmable LED/CFL load capacity is 150W in all cases.

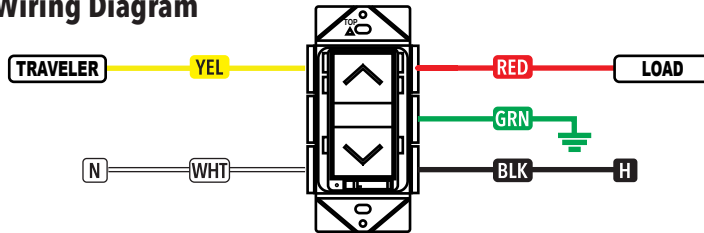
For further troubleshooting guidance, please contact the Controls Technical Support Team

**1(800)-535-2465**

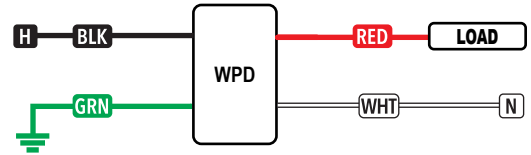


## WIRING

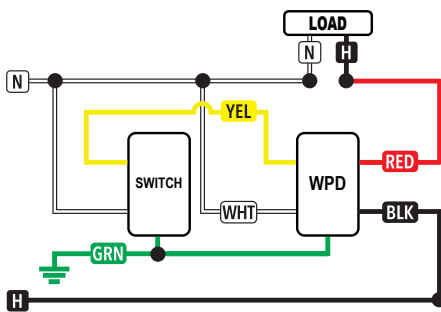
### Wiring Diagram



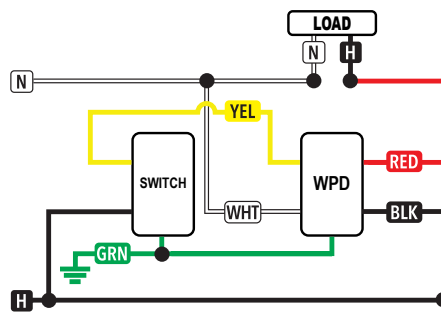
### Typical Dimmer Wiring



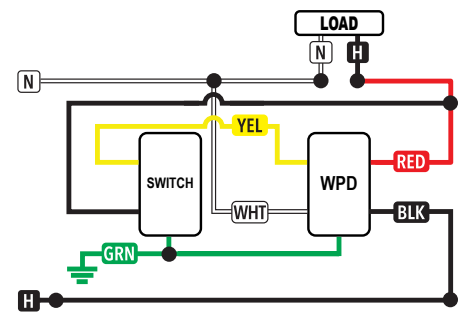
### 3-Way wiring Schematic using one WPD and one regular ON/OFF mechanical switch



Wiring Method 1

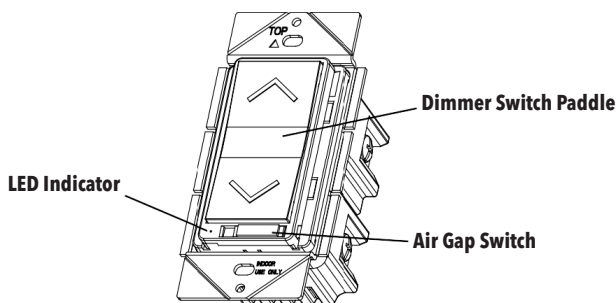


Wiring Method 2



Wiring Method 3

## OPERATION



### Manual Control

The WPD dimmer switch allows the user to turn ON/OFF and control the brightness level of the connected lighting.

### Basic Operation

1. To turn the connected lighting ON: Tap the top of the dimmer switch paddle. The LED indicator will be turned on in blue.
2. To turn the connected lighting OFF: Tap the bottom of the dimmer switch paddle again. The LED indicator will be turned off.
3. To brighten the connected lighting: Press and hold the top of the dimmer switch paddle, release when desired level is achieved.
4. To dim the connected lighting: Press and hold the bottom of the dimmer switch paddle, release when desired level is achieved.

### NOTE

1. Pressing and holding the dimmer switch paddle until the light intensity is at the minimum setting (which may result in 0% light output) does not turn the power OFF, you must still tap (short press) the bottom of the dimmer switch paddle to turn the power OFF.
2. When power on again, the device will go back to the light level prior to power off.

### Brightness Setting

#### Setting High Trim (maximum brightness)

**Action 1:** Toggle air gap switch off/on  
**Response:** The LED indicator will flash.  
**Information:** During this state, within a 8 second window, the user can set high trim.

**Action 2:** While LED is flashing quickly, press top paddle 5 times continuously.  
**Response:** The LED indicator will slowly flash, and light level will transition from 40% to 100% illumination  
**Information:** The slow LED flash and illumination transition indicates trim direction

**Action 3:** Press top or bottom paddle to adjust light level to desired brightness within an 15 seconds window.  
**Response:** After slow flash stops, the maximum brightness is automatically saved.  
**Information:** Setting high trim is complete.

#### Setting Low Trim (minimum brightness)

**Action 1:** Repeat Action 1 above in High Trim Section

**Action 2:** While LED is quickly flashing, press bottom paddle 5 times continuously  
**Response:** The LED indicator will slowly flash, and light level will transition from 0% to 60% illumination.

**Action 3:** Repeat Action 3 above; however, setting desired minimum light level.

#### Restore the maximum or minimum brightness defaults

**Action 1:** Repeat Action 1 above in High Trim Section

**Action 2:** While LED is quickly flashing, press the paddle 10 times top or bottom in the same direction continuously. The dimming level will change from zero to 90%.

**Response:** The dim level will change from 0 to 90%.