

OVERVIEW

The **WSD PDT 2P FAN** is a Wall Switch Decorator style Passive Dual Technology (PDT) occupancy sensor that controls a lighting load and an exhaust fan. While similar in functionality to standard dual relay sensors, the **WSD PDT 2P FAN** sensor provides a minimum fan run-time setting so that air circulation requirements (such as ASHRAE 62.2) can be met without sacrificing energy savings.

Utilizing two isolated power relays, the **WSD PDT 2P FAN** is factory set to automatically turn both the lighting and fan load on when initial occupancy is detected. The settings of the **WSD PDT 2P FAN** sensor can be programmed, without removing the switch plate, by entering simple command sequences via the push-buttons.

FEATURES

- Patented Dual Technology with PIR / Microphonics™ Detection
- Two Self Contained Relays - No Power Packs needed
- Minimum Run-Time Setting for Fan - (Aggregate over 24 hr Period)
- Interchangeable Hot & Load Wires - Impossible to Wire Backwards
- Small Motion Detection to 20 ft (6.10 m)
- Self Grounding Mounting Strap
- No Neutral Required / No Minimum Load
- Adjustable Time Delay / Pole
- LampMaximizer® Minimum On Time (disabled by default)
- Push-Button Programmable w/o Removing the Switch Plate
- Labeled Buttons (Light / Fan)
- Green LED Indicator

SPECIFICATIONS

Size:	2.74"H x 1.68"W x 1.63"D (6.96 cm x 4.27 cm x 4.14 cm) (not including ground strap)
Weight:	5 oz
Mounting:	Single gang switch box
Mounting Height:	30-48 in (76.2 - 121.9 cm)
Color:	White, Ivory, Gray, Lt. Almond
Maximum Load/ Pole:	(Single Phase Power Only) 800 W @ 120 VAC, 1200 W @ 277 VAC, 1500 W @ 347 VAC
Minimum Load:	None
Motor Load:	1/4 HP
Frequency:	50/60 Hz (timers are 1.2x for 50 Hz)

ROHS compliant

TITLE 20/24

AcuityControls™

Sensor Switch™

WSD PDT 2P FAN
Wall Switch Sensor w/
Minimum Fan Run-Time



Warranty

Five-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

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

Specifications subject to change without notice.



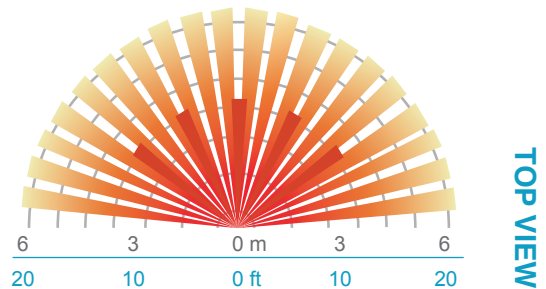
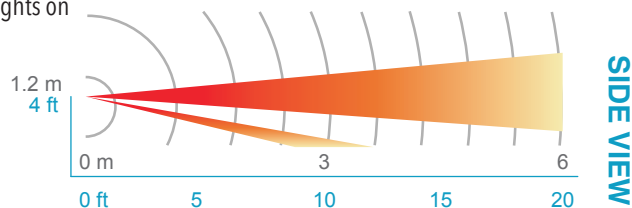
ORDERING INFORMATION

WSD PDT 2P FAN			Example: WSD PDT 2P FAN GY
Series	Voltage	Color	Temp/Humidity
WSD PDT 2P FAN Wall Switch Sensor	[blank] 120 - 277 VAC 347 347 VAC	WH White IV Ivory GY Gray AL Lt. Almond	Blank Standard LT Low Temp

COVERAGE PATTERN

WALL SWITCH LENS W/ MICROPHONICS™

- Small motion (e.g. hand movements) detection up to 20 ft (6.10 m)
- Large motion (e.g. walking) detection up to 50 ft (15.24 m)
- Wall-to-Wall coverage
- Microphonics™ provides overlapping detection of human activity over the complete PIR coverage area
- Advanced filtering is utilized to prevent non-occupant noises from keeping the lights on



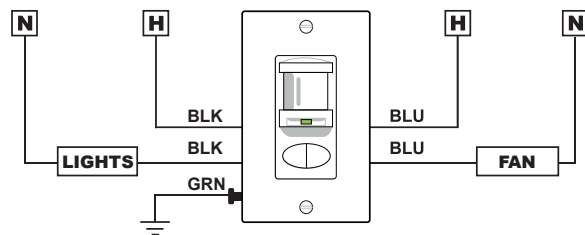
WIRING (DO NOT WIRE HOT)

STANDARD WIRING

- | | | |
|--|------------------------|--------------------------------|
| BLACK* | - Line Input (Hot) 1 | } *BLACK wires can be reversed |
| BLACK* | - Lighting Load Output | |
| BLUE** | - Line Input (Hot) 2 | } **BLUE wires can be reversed |
| BLUE** | - Fan Output | |
| GREEN SCREW - Ground (required connection) | | |

347 VAC OPTION (347)

Black wires are replaced w/ Red wires



Note: Connection to Ground required for sensor to function.
Unit powers off BLK Hot (Line) Input

CONTROL MODES

ON MODES (programmable per pole, i.e. Pole 1 = Lights, Pole 2 = Fan)

AUTOMATIC ON (default Pole 1 & 2) - Lights/fan come on when occupancy is detected.

MANUAL ON - Requires the occupant to manually turn on the lights/fan via the push-button.

REDUCED TURN ON - Sensor is initially set to only detect large motions, effectively ignoring any reflected PIR signals while still sensing occupants when they enter the room. Once on, the sensor returns to maximum sensitivity.

SWITCH MODES (programmable per pole)

PREDICTIVE OFF MODE (default Pole 1 & Pole 2) - This mode allows occupants to turn the lights/fan off via the switch without losing the convenience of having the lights/fan automatically turn on when they re-enter the room. Pressing the switch turns the lights/fan off and temporarily disables the occupancy detection in the sensor. After a short exit time delay, the occupancy detection reactivates and monitors for an additional grace period. If no occupancy is detected, the zone will remain in Automatic On operation. If occupancy is detected, the zone will go to a Permanent Off mode, requiring the switch to be pressed again in order to turn the lights/fan on and restore the sensor to Automatic On operation.

PERMANENT OFF - Pressing the switch turns the lights/fan and the sensor off. Lights/fan will not come on until switch is pressed again.

SWITCH DISABLE - Prevents user from manually turning off the lights/fan via the push-button. Button can still be utilized for programming.