Catalog Number:	Date:	Project:

OVERVIEW

The WSD is a stylish, easy to install, and simple to use Wall Switch Decorator style Passive Infrared (PIR) sensor. It is ideal for private offices, copy rooms, closets, or any small enclosed space without obstructions. A user programmable time delay ensures that once the room is vacated the sensor will time out and turn off the lights. Additionally, the WSD sensor has several On Modes and Switch Modes that can be programmed using the front push-button. For rooms with obstructions, the Dual Technology WSD PDT Series sensor is recommended. Additionally, all WSD Family sensors have a patent-pending wiring method that enables them to function either with or without a neutral connection. WSD units come pre-configured for wiring without a neutral; however, if connection to neutral is required by code, contractors can convert the unit in seconds.

FEATURES

- Compatible w/LEDs, electronic & magnetic ballasts, CFLs, & incandescents
- 100% passive detection, no potential for interference with other building systems
- Small motion detection to 20 ft
- Push-button programmable without removing cover plate - adjustable time delays & operating modes
- Dual technology (PDT) utilizes PIR/Microphonics detection (patented)
- Self-grounding mounting strap
- Device accommodates powering over ground or neutral connection (patent pending)
- Ultra low current leakage (<0.5 mA) when connected via ground
- Fully meets NEC 2011 Section 404.2C neutral requirements - no current leakage to ground when connected to neutral
- Line power and load wires are interchangeable - impossible to wire backwards (patented)

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.

AcuityControls™

Sensor Switch™

WSD Family

WSD
WSD PDT

WSD 2P
WSD PDT 2P

ORDERING INFORMATION

WSD SINGLE RELAY								
Series		**Operating Mode[1]**		**Voltage**		**Color[3]**		**Temp / Humidity**
WSD	Passive Infrared (PIR)	[blank]	Auto-on (default) or vacancy	[blank]	120/277VAC	WH White	AL Lt. Almond	[blank] Standard
WSD PDT	Dual Technology (PIR/ Microphonics)	SA	Vacancy (default) or auto-on	347[2]	347VAC	IV Ivory	BK Black	LT Low Temp/ High Humidity
		VA	Vacancy only			GY Gray		

WSD DUAL RELAY								
Series		**Operating Mode[1]**		**Voltage**		**Color[3]**		**Temp / Humidity**
WSD 2P	Passive Infrared (PIR)	[blank]	Pole 1 auto-on Pole 2 vacancy	[blank]	120/277VAC	WH White	AL Lt. Almond	[blank] Standard
WSD PDT 2P	Dual Technology (PIR/ Microphonics	2SA	Both poles vacancy (default)	347[2]	347VAC	IV Ivory	BK Black	LT Low Temp/ High Humidity
						GY Gray		

Notes:
1. Operating Modes reprogrammable via push-button except for VA version
2. Wall plates included in white or ivory only for 347 VAC units
3. Matching wall plate provided for 120/277 VAC units

SPECIFICATIONS

|	
Size:	2.74"H x 1.68"W x 1.63"D (not including ground strap)
Weight:	5 oz
Mounting:	Single gang switch box
Mounting Height:	30-48 in
Maximum Load/ Pole:	(Relay) 800W @ 120VAC, 1200W @ 277VAC, 1500 W @ 347VAC
Minimum Load:	None
Motor Load:	1/4 HP
Frequency:	50/60Hz (timers are 1.2x for 50Hz)
Temperature Rating:	0°C-60°C

ROHS compliant

COVERAGE PATTERNS

- Small motion (e.g., hand movements) detection up to 20 ft (6.10 m), ~625 ft^2
- Large motion (e.g., walking) detection greater than 36 ft (10.97 m), ~2025 ft^2
- Wall-to-Wall coverage
- Passive Dual Technology (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.

TOP VIEW

SIDE VIEW
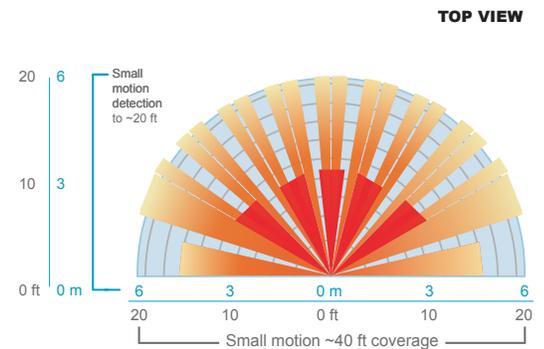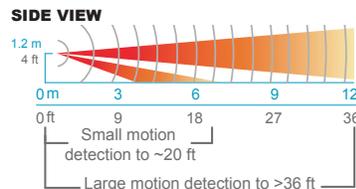
WIRING TO GROUND (no NEUTRAL)

SINGLE RELAY

GND H N
BLK
BLK LOAD 1
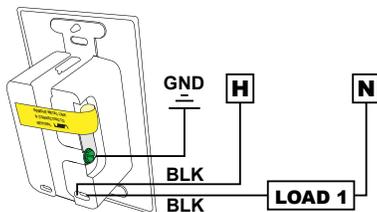
WIRE COLOR KEY

120/277 VAC WIRING

BLACK* - Line 1 Input   } *BLACK wires
BLACK* - Load 1 Output } can be reversed
BLUE* - Line 2 Input   } *BLUE wires
BLUE* - Load 2 Output } can be reversed

347 VAC WIRING (-347 Option)
Red wires replace Black wires.

DUAL RELAY

N   H   GND H   N
BLU   BLK
LOAD 2 BLU   BLK LOAD 1
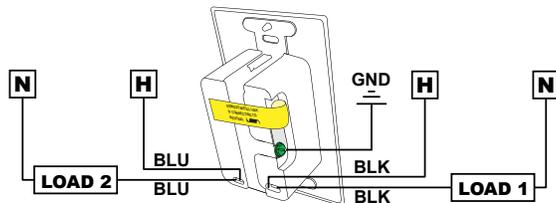
WIRING TO NEUTRAL

SINGLE RELAY

N H   N
GND
BLK
BLK   LIGHTING LOAD

DUAL RELAY

N   H   N   H   N
BLU   GND   BLK
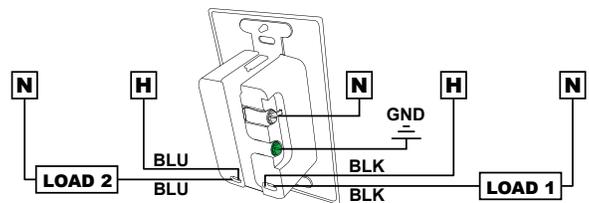LOAD 2 BLU   BLK LOAD 1
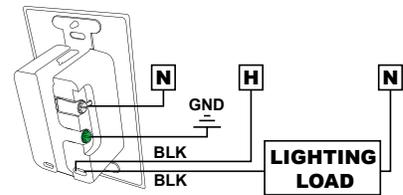
Notes:
- Unit will draw power from either line connection.
- When switching 277 VAC or 347 VAC on both relays, the line inputs must be of the same phase.

WSD Family (TS-WSD-001A)