

OVERVIEW

The WSXA Family of wall switch occupancy sensors provides simple and cost effective solutions for commercial and residential lighting control applications. All WSXA Family sensors have a stylish low profile appearance, soft-click buttons, and provide small motion detection up to 20 ft (6.10 m), making them perfect for private offices, private restrooms, closets, copy rooms, or any other small enclosed space. Additionally, all WSXA Family sensors have a patent-pending wiring method that enables them to function either with or without a neutral connection. WSXA 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

- Devices can be programmed with traditional push button programming
- Compatible w/LEDs, electronic & magnetic ballasts, CFLs, & incandescents
- 100% passive detection, no potential for interference with other building systems
- Small motion detection up to 20 ft, Large motion detection up to 36ft
- Push-button programmable without removing cover plate - adjustable time delays & operating modes
- Dual technology (PDT) utilizes PIR/Microphonics™ detection (patented)
- Device accommodates powering over ground or neutral connection (patent pending)
- Fully meets NEC 2017 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)
- Integrated Photocell (disabled by default) prevents light from turning on if sufficient daylight is present
- New aesthetic with vandal resistant lens

Government Procurement

BAA – Buy America(n) Act: Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to www.acuitybrands.com/buy-american for additional information.

Warranty

Five-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.



WSXA BAA Series Wall Switch Sensor



**WSXA/WSXA
On/Off
Single Relay**



**WSXA D/WSXA D
On/Off/Dimming
Single Relay**



ORDERING INFORMATION

WSXA Single Pole				Example: WSPA PDT D WH BAA
Series Option ¹		Detection Mode	Dimming	Operating Mode
WSXA Wall Switch Sensor		[blank] Passive Infrared (PIR) PDT Dual Technology	[blank] On/Off D Dimming	[blank] Pole 1 auto-on Pole 2 Manual On SA Manual On (default) or Automatic On
Voltage		Color	Temp / Humidity	Buy American Act ¹
[blank] 120-277 VAC		WH White IV Ivory GY Gray	[blank] Standard	BAA

Notes:

1 BAA variants may experience extended Lead-Times

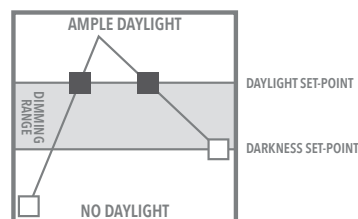
WSXA 2P				Example: WSPA 2P WH LT BAA
Series Option ¹		Detection Mode	Poles	Operating Mode
WSXA Wall Switch Sensor (Occupancy and Daylighting)		[blank] Passive Infrared(PIR) PDT Passive Dual Technology	2P 2 Poles	[blank] Pole 1 auto-on Pole 2 Manual On 2SA Both poles Manual On (default)
Voltage		Color	Temp/Humidity	Buy American Act ¹
[blank] 120-277 VAC		WH White IV Ivory GY Gray	[blank] Standard	BAA Buy America(n) Act and/or Build America Buy America Qualified

Notes:

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Adaptive Daylight Harvesting (ADH)

With Sensor Switch's Adaptive Daylight Harvesting (ADH), automatic dimming has never been more reliable - even in a wall switch. It works by establishing two state change set-points; daylight and darkness. The light level in the space will then be automatically maintained by **intelligently controlling** the dim level of the electric light source. Set-points can be established using the "Set Now" option or programmed using desired light levels as measured in foot candles (fc).



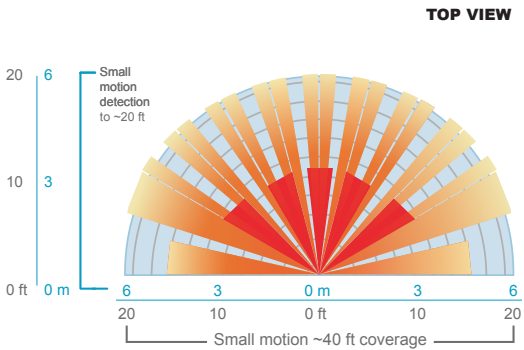
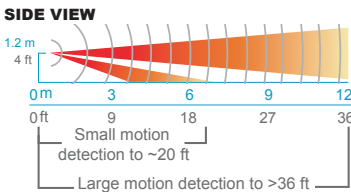
KEY	 LIGHTS FULL ON	 LIGHTS FULL DIM
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SPECIFICATIONS

Electrical	Input Ratings	120-277VAC, 50/60 Hz
	Output Ratings	120VAC, 800W, 6.7A - Tungsten, Standard Ballast, Electronic Ballast 277VAC, 1200W, 4.3A - Tungsten, Standard Ballast, Electronic Ballast 120/277 1/4 HP - Motor
	Relay Type	Latching
	Low Voltage Output Ratings	0-10VDC, Sinks <50mA
	Standards/ Ratings	Energy Management Equipment, UL916 (E167435)
Mechanical	Dimensions	2.74" H x 1.68" W x 1.63" D (70mm x 43mm x 41mm) - does not include ground strap
	Mounting	Single-Gang Box
	Connection Type	Low-Voltage Leads, Line-Voltage Leads
Environmental	Warrantied Operating Temperature	32°F to 140°F (0°C to 60°C)
	Relative Humidity	Up to 90%, Non-Condensing
	Standards/ Ratings	RoHS

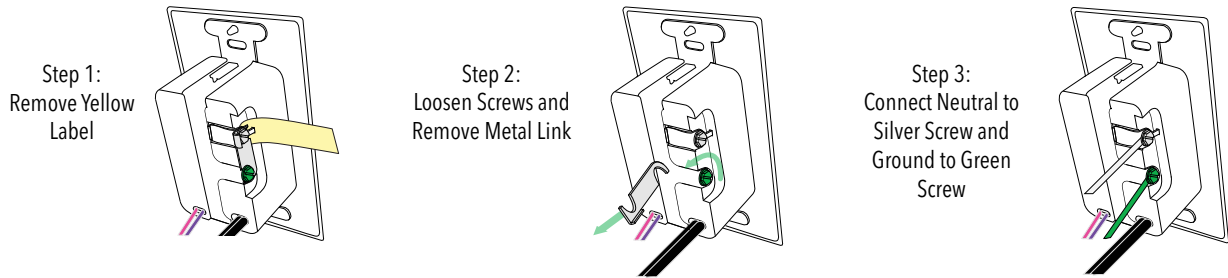
COVERAGE PATTERNS

- Small motion (e.g. hand movements) detection up to 20 ft (6.10 m), ~625 ft2
- Large motion (e.g. walking) detection greater than 36 ft (10.97 m), ~2025 ft2
- Wall-to-wall PIR coverage
- Units with -PDT (Passive Dual Technology) option (also called Microphonics) provide 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.
- Tested to NEMA WD 7-2011

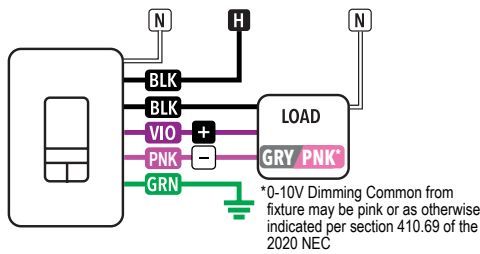


CONVERSION FROM GROUND ONLY (NO NEUTRAL) TO NEUTRAL WIRING

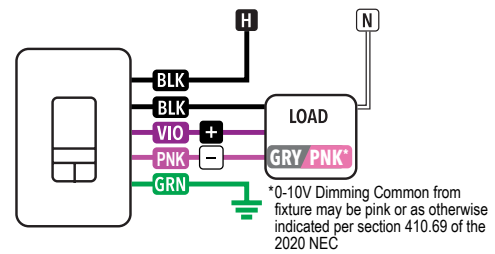
This product is pre-configured for wiring without a neutral; however, if connection to neutral is required by code, the unit easily converts in seconds.



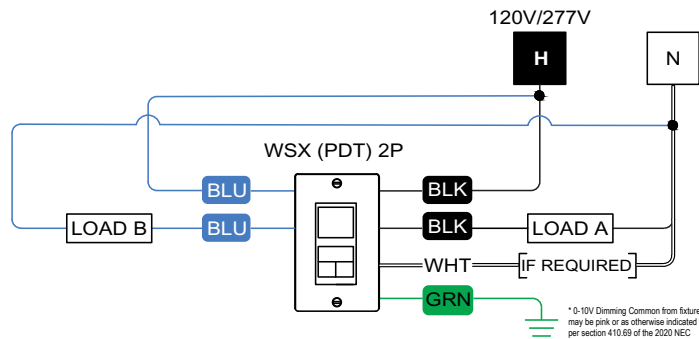
CONVERTIBLE NEUTRAL SINGLE RELAY, 120-277 VAC



GROUND ONLY SINGLE RELAY, 120-277 VAC



2 POLE CONFIGURATION



WIRE COLOR KEY

120-277 VAC WIRING

BLK	-	Line Input
BLK	-	Line Output
VIO	-	Low Voltage Dim Output (0-10 VDC)
PNK	-	Low Voltage Common

***Some Pink wires may come as Gray

Notes:

- Black wires can be used interchangeably
- Violet and pink wires are not present on devices without D option
- Cap off violet and pink wires if dimming functionality is not being used
- Per NEC requirements, the 0-10V violet and pink wires must be installed as Class One.
- The 0-10V control wires must not exceed 250 ft (76 m) in length and must be sized at no less than 20 AWG