

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.

MULTI-WAY (MWO)

Our new WSXA MWO series allows for multi-location On/Off or dimming up to 9 devices (2 device limit when neutral-less wiring used) on a single traveler.

FEATURES

- Programmable with Sensor Switch VLP app or traditional push button, refer to ordering information for availability
- WSXA MWO can be used in conjunction with sPODMRA MWO
- Devices can be spaced up to 250 ft with MWO option
- MWO option support up to 9 additional MWO enabled devices (2 neutral-less) on a single traveler
- 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 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

Warranty

Five-year limited warranty. 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 Series Wall Switch Sensor



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



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



ORDERING INFORMATION

WSXA Single Pole		Example: WSXA MWO PDT D WH		
Series Option	Detection Mode	eldoLED	Dimming	Operating Mode
WSXA Wall Switch Sensor (Occupancy and Daylighting) WSXA MWO WSXA with Multi-way Operation	[blank] Passive Infrared (PIR) PDT Dual Technology	[blank] none EZ ¹ eldoLED Driver Compatibility	[blank] On/Off D ² Dimming	[blank] Automatic On SA Manual On VA Vacancy ASL ³ Automatic Start Level 5VDC
Voltage	Color ⁴	Max Dim Level ⁵	Min Dim Level ⁵	
[blank] 120-277 VAC 347 347 VAC	WH White IV Ivory GY Gray AL Light Almond BK Black RD Red	[blank] 10 VDC 9H 9 VDC 8H 8 VDC 7H 7 VDC	[blank] 0 VDC 1V 1 VDC 2V 2 VDC 3V 3 VDC 4V 4 VDC 5V 5 VDC 6V 6 VDC	

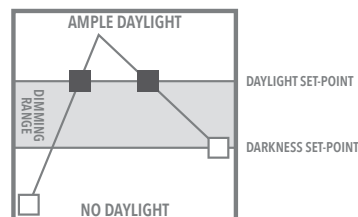
Notes:

1. Max Dim Level default set to 9.1VDC. Min Dim Level default set to 1.5VDC.
2. 0-10V Dimming Only
3. Not available with EZ, Max Dim, or Min Dim Level.
4. Matching wall plate provided for 120-277 VAC units.
5. Only available with D option.

WSXA 2P		Example: WSXA 2P FAN WH LT		
Series Option	Detection Mode	Poles	Fan	
WSXA Wall Switch Sensor (Occupancy and Daylighting) WSXA MWO WSXA with Multi-way Operation	[blank] Passive Infrared(PIR) PDT Passive Dual Technology	2P 2 Poles	[blank] No Fan FAN Fan Operation	
Voltage	Run Time	Color	Temp/Humidity	
[blank] 120-277 VAC 347 347 VAC	[blank] Pole 1 Lights Pole 2 Fan ASHRT Pole 1 Lights Pole 2 Fan, Minimum Fan Run Time per Ashrae 62.2	WH White IV Ivory GY Gray AL Lt. Almond RD Red BK Black	[blank] Standard LT Low Temp/ High Humidity	

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

SPECIFICATIONS

Electrical	Input Ratings	120-277VAC, 50/60 Hz 347VAC, 50/60 Hz (with 347 option)
	Output Ratings	120VAC, 800W, 6.7A - Tungsten, Standard Ballast, Electronic Ballast 277VAC, 1200W, 4.3A - Tungsten, Standard Ballast, Electronic Ballast 347VAC, 1500W, 4.3A - Tungsten, Standard Ballast, Electronic Ballast 120/277/347VAC, 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

