

**OVERVIEW**

The WSX family of wall switch occupancy sensors provides simple and cost effective solutions for commercial and residential lighting control applications. All WSX 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 rest rooms, closets, copy rooms, or any other small enclosed space. Additionally, all WSX family sensors have a patent-pending wiring method that enables them to function either with or without a neutral connection. WSX 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. With optional flash programming via the Sensor Switch VLP mobile device application, the user can easily change time delay, on mode and photocontrol settings.

**FEATURES**

- Compatible with 0-10V dimming luminaries
- 100% passive detection
- Small motion detection up to 20 ft
- Programmable with Sensor Switch VLP app or traditional push button, refer to ordering information for availability
- Dual technology (PDT) utilizes PIR/Microphonics™ detection
- Self-grounding mounting strap
- Convertible Neutral to Ground - depending on code, accommodates powering over ground or neutral connection in one device
- Miswire Protection - interchangeable line and load wires, no damage to device if line voltage is miswired to 0-10V wires
- Integrated photocell with Adaptive Daylight Harvesting (ADH)
- Vandal resistant lens
- Fully meets NEC 2017 Section 404.2C neutral requirements - no current leakage to ground when connected to neutral
- Ability to aid in IECC and ASHRAE Code Compliance

**Warranty**

5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/support/customer-support/terms-and-conditions](http://www.acuitybrands.com/support/customer-support/terms-and-conditions)

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



**WSX D**  
*Dimming Occupancy*  
*Wall Switch*



**ORDERING INFORMATION**

**WSX D** Example: **WSX PDT D 347 WH 8H**

Series	Detection Mode	eldoLED	Dimming	Operating Mode
WSX Wall Switch Occupancy Sensor	[blank] Passive Infrared (PIR) PDT Dual Technology	[blank] None EZ <sup>1</sup> eldoLED Driver Compatibility	D Dimming	[blank] Automatic On SA Manual On VA Vacancy ASL <sup>2</sup> Automatic Start Level 5VDC

Voltage	Visible Light Programming <sup>4</sup>	Color <sup>5</sup>	Max Dim Level <sup>7</sup>	Min Dim Level <sup>7</sup>
[blank] 120-277 VAC 347 <sup>3</sup> 347 VAC	[blank] None VLP Visible Light Programming	WH White AL Almond IV Ivory BK Black GY Gray RD <sup>6</sup> Red	[blank] 10 VDC 9H 9 VDC 8H 8 VDC 7H 7 VDC	[blank] 0 VDC 4V 4 VDC 1V 1 VDC 5V 5 VDC 2V 2 VDC 6V 6 VDC 3V 3 VDC

**NOTES:**

1. Max Dim Level default set to 9.1VDC. Min Dim Level default set to 1.5VDC.
2. Not available with EZ, VLP, Max Dim, or Min Dim Level.
3. 347 VAC units only available with White or Ivory wall plates.
4. Available only with PDT option. Not available with EZ option.
5. Matching wall plate provided for 120/277 VAC units.
6. Special order.
7. For settings other than default, minimum order quantity is 30 units.

## 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

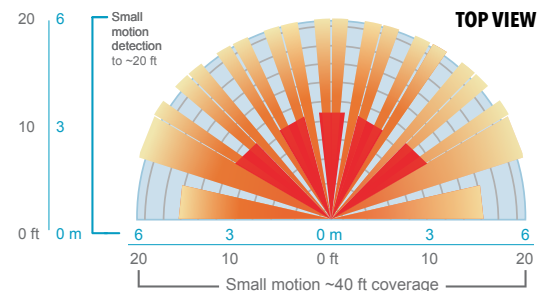
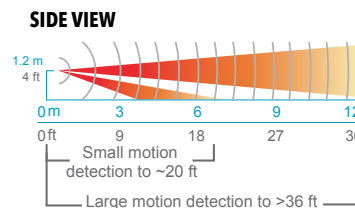
**Warrantied Operating Temperature** 32°F to 140°F (0°C to 60°C)

**Relative Humidity** Up to 90%, Non-Condensing

**Standards/ Ratings** RoHS

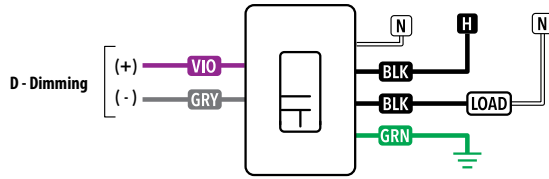
## COVERAGE PATTERNS

- Small motion (e.g. hand movements) detection up to 20 ft (6.10 m), ~625 ft<sup>2</sup>
- Large motion (e.g. walking) detection greater than 36 ft (10.97 m), ~2025 ft<sup>2</sup>
- 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

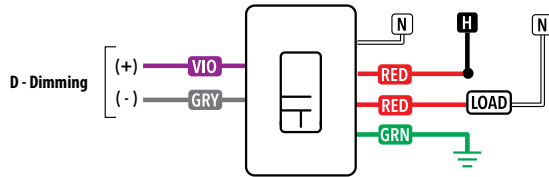


## CONVERTIBLE NEUTRAL

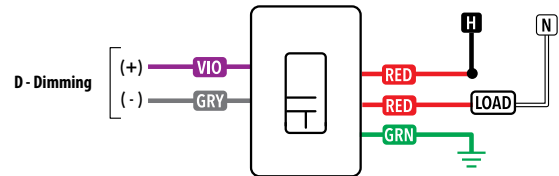
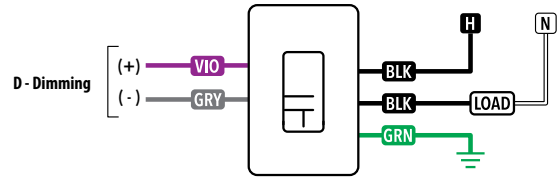
120/277 VAC



347 VAC



## GROUND ONLY



### NOTES:

- 1.) Per NEC requirements, the 0-10V violet and gray wires must be installed as Class One.
- 2.) The 0-10V control wires must not exceed 250 ft (76 m) in length and must be sized at no less than 20AWG.
- 3.) All models are field convertible to accept neutral wiring when required.

## 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).

