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sensorswitch WSX D Dimming Occupancy Wall Switch Owner's Manual

Contents

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Product Information

- **Catalog Number:** WSX D
- **Date:** Not specified
- **Project:** Not specified
- **Features:**
  - Availability
  - Connection in one device
  - Miswired to 0-10V wires
  - Connected to neutral
  - Dimming Occupancy Wall Switch
- **Warranty:** 5-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**

Product Usage Instructions

The WSX D is a dimming occupancy wall switch that allows for connection in one device and can be miswired to 0-10V wires. It is important to note that the device should be connected to neutral.

The ordering information for the WSX D is as follows:

- **Series:** WSX Wall Switch Occupancy Sensor
- **Detection Mode:** [blank] Passive Infrared (PIR) PDT Dual Technology
- **eldoLED:** [blank] None EZ1 eldoLED Driver Compatibility
- **Dimming:** D Dimming
- **Operating Mode:** [blank] SA VA ASL2 Automatic On Manual On Vacancy Automatic Start Level 5VDC
- **Voltage:** [blank] 120-277 VAC 3473 347 VAC
- **Visible Light Programming:** [blank] None VLP Visible Light Programming
- **Color:** WH White IV Ivory GY Gray AL Almond BKBlack RD6 Red
- **Max Dim Level:** [blank] 10 VDC 9H 9 VDC 8H 8 VDC 7H 7 VDC
- **Min Dim Level:** [blank] 0 VDC 1V 1 VDC 2V 2 VDC 3V 3 VDC 4V 4 VDC 5V 5 VDC 6V 6 VDC

The WSX D has input ratings of 120-277VAC, 50/60 Hz and output ratings of 120VAC, 800W, 6.7A – Tungsten, Standard Ballast, Electronic Ballast; 277VAC, 1200W, 4.3A – Tungsten, Standard Ballast, Electronic Ballast; and 347VAC, 1500W, 4.3A – Tungsten, Standard Ballast, Electronic Ballast. The device also has a latching relay type and low voltage output ratings of 0-10VDC, sinks.

Note that actual performance may differ as a result of end-user environment and application and specifications are subject to change without notice.

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.

PRODUCT 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. 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.

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 EZ1 eldoLED Driver Compatibility	D Dimming	[blank] Automatic On S A Manual On VA Vacancy ASL2 Automatic Start Level 5VDC

Voltage		Visible Light Programming4	Color5				Max Dim Level7		Min Dim Level7			
[blank]	120-277 VAC	[blank] None	WH White		AL	Almond	[blank]	10 VDC	[blank]	0 VDC	4V	4 VDC
3473	347 VAC	VLP Visible Light Programming	IV Ivory		BK	Black	9H	9 VDC	1V	1 VDC	5V	5 VDC
			GY Gray	RD6		Red	8H	8 VDC	2V	2 VDC	6V	6 VDC
							7H	7 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
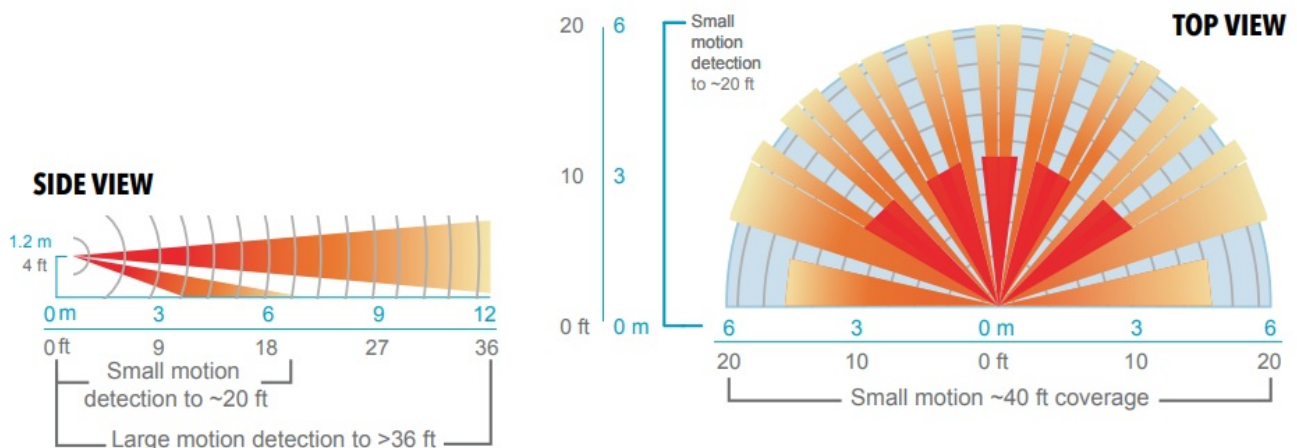- Standards/ Ratings Energy Management Equipment, UL916 (E167435)

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
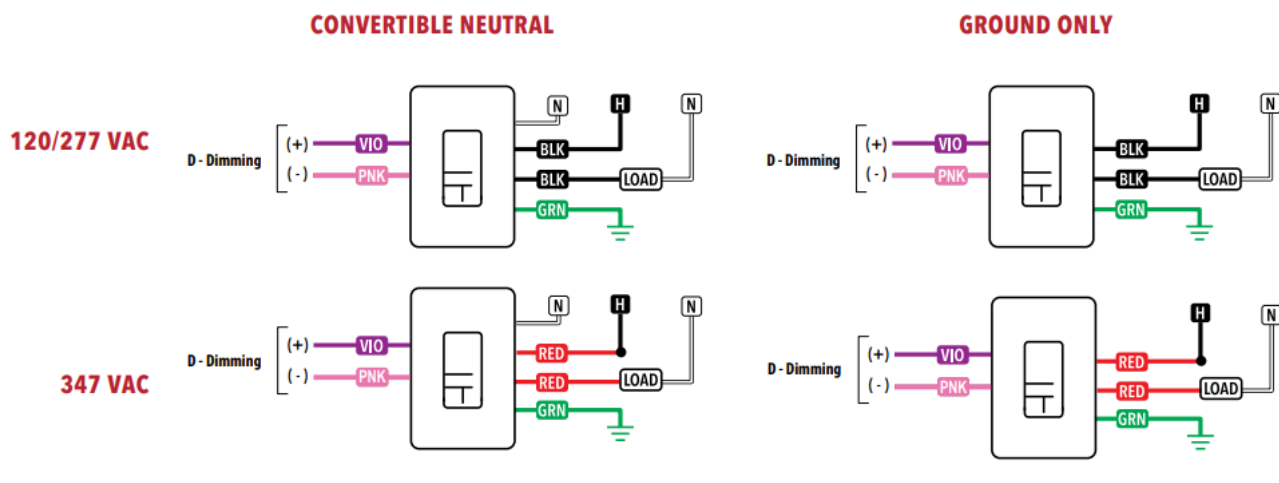
Environmental

- 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 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.
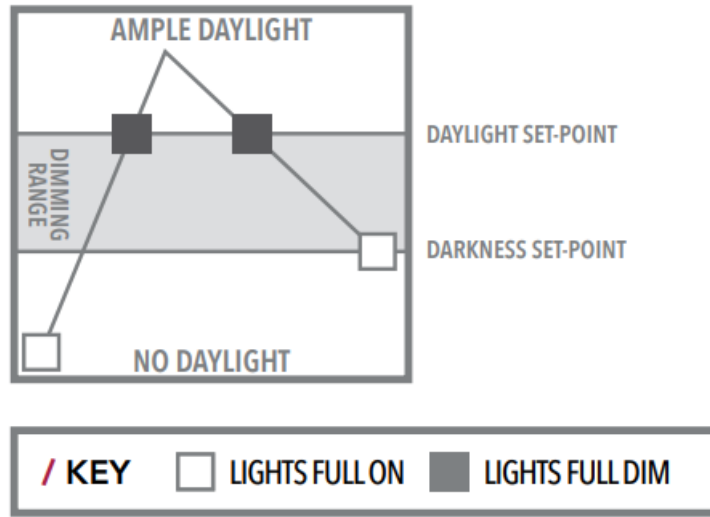- Tested to NEMA WD 7-2011

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.
4. 0-10V Dimming Common from luminaire may be pink or as otherwise indicated per section 410.69 of the 2020 NEC

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).

DAYLIGHT SET-POINT

DARKNESS SET-POINT

KEY — LIGHTS FULL ON — LIGHTS FULL DIM

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Documents / Resources

sensorswitch WSX D Dimming Occupancy Wall Switch [pdf] Owner's Manual
WSX D, WSX PDT D, Dimming Occupancy Wall Switch, WSX D Dimming Occupancy Wall Switch, Occupancy Wall Switch, Wall Switch, Switch

References

- **Terms and Conditions and Warranties | Acuity Brands**
- **Acuity Controls | Acuity Brands**

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