Catalog Number: | Date: | Project:

OVERVIEW

The rWSXLA is a wireless wall switch and occupancy sensor that combines manual lighting control and motion sensing in a single line-powered device. Designed for small, enclosed spaces, it communicates with luminaires equipped with nLight® AIR controls and compatible power packs to provide seamless lighting control without additional control wiring.

By integrating manual control and sensing into a single device, the rWSXLA reduces device count, simplifies installation, and enables flexible control in both new construction and retrofit applications. As part of the nLight AIR network, it supports system-wide communication, remote configuration, and standardized control behavior across connected devices.

FEATURES

- Wireless wall switch with integrated occupancy sensor
- Line-powered (MVOLT 120–277V or 347V), no local load switching
- Controls luminaires with embedded wireless controls by nLight® and/or nLight® AIR power packs
- PIR or dual-technology (PIR + Microphonics™) occupancy detection
- Small motion detection up to 20 ft, large motion >36 ft
- Single-pole or two-pole manual on/off control
- Optional raise/lower dimming control ("DX" models)
- Integrated inhibit-only photocell (disabled by default)
- 900 MHz RF communication for nLight® AIR device-to-device networking
- Bluetooth® support for configuration via CL**AIR**ITY™+ mobile app

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.

A+ Capable Luminaire

This item is an A+ capable component, which has been designed and tested to provide out-of-the-box luminaire compatibility with simple commissioning, when included as part of an A+ Certified™ Solution.

To learn more about Acuity A+ standards, specifications, and testing visit www.acuitybrands.com/aplus.

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nLight® AIR rWSXLA:

Wireless Wall Switch and Sensor



rWSXLA



rWSXLA DX



rWSXLA 2P



rWSXLA 2P DX

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ORDERING INFORMATION

rWSXLA						Example: RWSXLA PDT DX WH G2
Series	**Occupancy Detection**	**Poles**	**Dimming**	**Voltage**[1]	**Color**	**Generation**
RWSXLA	[blank] Passive Infrared (PIR) PDT Dual Tech - PIR/ Microphonics	[blank] Single Pole 2P Two Pole	[blank] On/off Control DX[2] On/off + Raise/Lower Control	MVOLT 120-277 VAC 347 347 VAC	WH White IV Ivory AL Light Almond GY Gray RD Red BK Black	G2 Generation 2 Compatibility

1. Matching wall plate provided for MVOLT (120-277 VAC) units ONLY.
2. Press and hold exceeding half a second will initiate continuous dimming at a ramp rate of 20% for every second held. For the single pole variants only, one can increment the dim levels by 5% with each button press.

ORDERING INFORMATION

rWSXLA switches are shipped with wall plates. The following order information is available to acquire replacement wall plates.

Wall Plate - Additional or Replacement					
Series	**# of Gangs**	**Color**			**Packaging**
WS XPODA Wall Plates (Standard)	1 GNG Single Gang	WH White IV Ivory GY Gray	AL Light Almond BK Black RD Red	VP Variety Pack	M5 5 Pack M6[1] 6 Pack

1. Available only for variety pack.

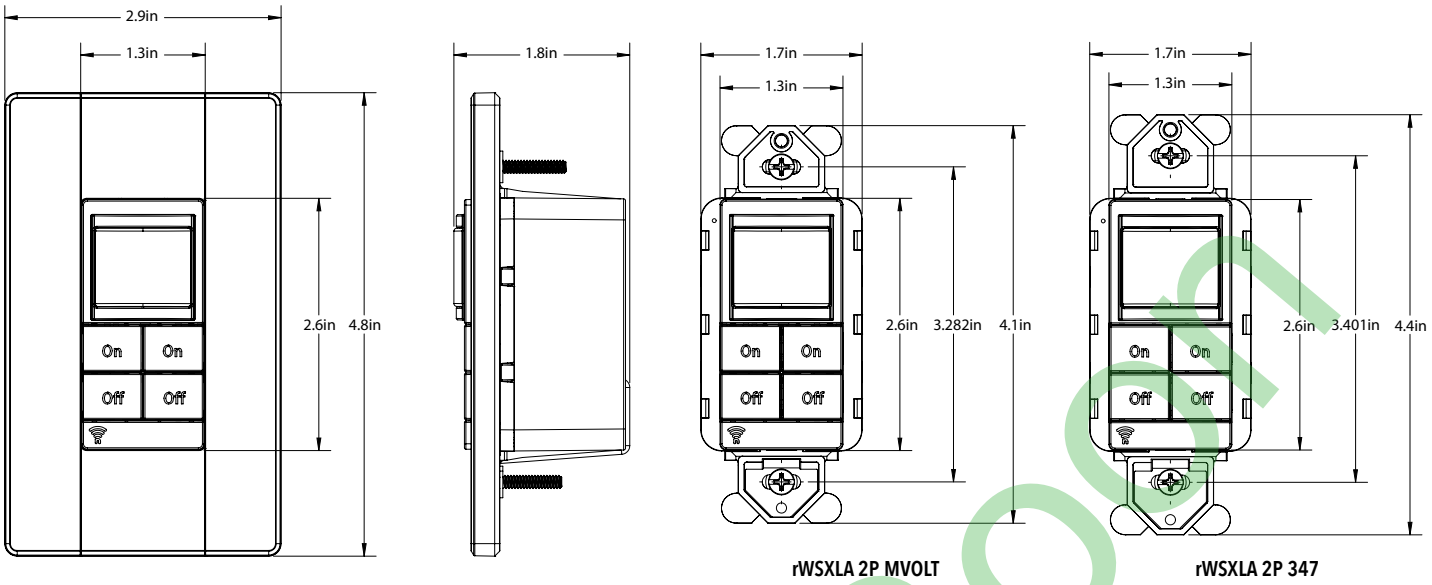
Accessories	
SSW 1GNG OCC WH	Sealed screwless wall plate to prevent liquid intrusion, white
SSW 1GNG OCC IV	Sealed screwless wall plate to prevent liquid intrusion, ivory
SSW 1GNG OCC RD	Sealed screwless wall plate to prevent liquid intrusion, red

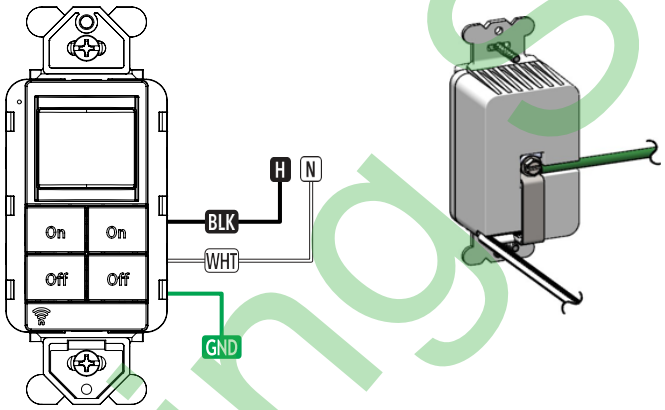
SPECIFICATIONS

Dimensions	WallPod (including wall plate): 4.8" H x 2.9" W x 1.8" D WallPod (without wall plate): 2.6" H x 1.7" W x 1.8" D (66.3mm x 32.5mm x 39.6mm)
Weight	4oz
Mounting	Single Gang Switch Box
Color	White, Ivory, Lt. Almond, Gray, Red, Black
Operating Temperature	32°F to 140°F (0°C to 60°C)
Relative Humidity	Standard: 20 to 75% non-condensing
Radio Frequency	Dual Radio: 900Mhz & 2.4GHz
RF Transmit Power	900Mhz: +20dBm; 2.4GHz: Variable
Wireless Standard	900MHz: IEEE 802.15.4-based 2.4GHz: Version 4.0+ of the Bluetooth specification
Wireless Range	900MHz: Up to 1,000 ft. (~304m) in free space/ line of sight Minimum of 150 ft through typical construction 2.4GHz: Up to 60 ft. (~18m) in free space/ line of sight
Security	Application Data Encryption: AES-128 bit Mutual Entity Authentication Message Confidentiality Message Authentication and Replay Prevention Limited Anonymity
Regulatory Compliance	FCC ID: 2ADCB-RMODIT3, RoHS IC: 6715C-RMODIT3 cULus
Programming Tool	CL**AIR**ITY+ mobile app

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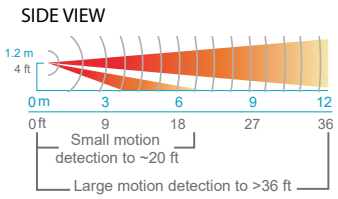
DIMENSIONS

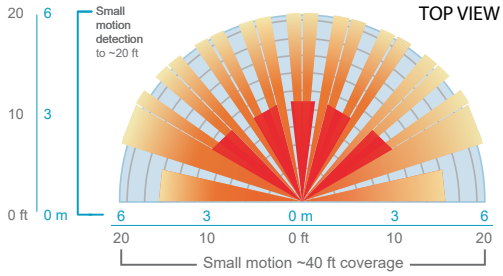




COVERAGE PATTERN

- Small Motion (e.g. hand movements) detection up to 20 ft (6.10 m)
- Large motion (e.g. walking) detection greater than 36 ft (10.97 m)
- 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.
- Tested to NEMA WD 7-2011





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