| Catalog Number: | Date: | Project: |
|---|---|---|

## 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, users can easily change time delay, on mode and photocontrol settings.

## FEATURES

- Programmable with Sensor Switch VLP app or traditional push button, refer to ordering information for availability
- 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 accomodates 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 – not available in Nightlight versions
- Vandal resistant lens

### 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/CustomerResources/Terms_and_conditions.aspx

**Note**: Actual performance may differ as a result of end-user environment and application.

Specifications subject to change without notice.

AcuityControls™

Sensor Switch™

# WSX Family



**WSX**
**WSX PDT**
**Single Relay**

**WSX 2P**
**WSX PDT 2P**
**Dual Relay**

**WSX NL**
**WSX PDT NL**
**Night Light**

Available on the App Store

ANDROID APP ON Google play

VLP

c UL us LISTED


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## ORDERING INFORMATION

**WSX SINGLE RELAY** — **Example: WSX PDT WH**

| Series | Operating Mode[1] | Voltage | Visible Light Programming[5] | Color[4] | Temp / Humidity |
|---|---|---|---|---|---|
| WSX Passive infrared (PIR) | [blank] Auto-on (default) or vacancy | [blank] 120-277 VAC | [blank] None | WH White | [blank] Standard |
| WSX PDT Dual Technology (PIR/Microphonics™) | SA Vacancy (default) or auto-on | 347[3] 347VAC | VLP Visible Light Programming | IV Ivory | LT Low Temp/ High Humidity |
| | VA Vacancy only | | | GY Gray | |
| | NL[2] Nightlight | | | AL Almond | |
| | | | | BK Black | |
| | | | | RD Red | |

**WSX DUAL RELAY** — **Example: WSX 2P NL WH**

| Series | Operating Mode[1] | Voltage | Color[4] | Temp / Humidity |
|---|---|---|---|---|
| WSX 2P Passive infrared (PIR) | [blank] Pole 1 auto-on Pole 2 vacancy | [blank] 120-277 VAC | WH White AL Lt. Almond | [blank] Standard |
| WSX PDT 2P Dual Technology (PIR/Microphonics™) | 2SA Both poles vacancy (default) | 347[3] 347VAC | IV Ivory BK Black | LT Low Temp/ High Humidity |
| | 2VA Both poles vacancy (only) | | GY Gray RD Red | |
| | NL[2] Nightlight | | | |

**Notes:**

1. Operating Modes reprogrammable via push-button except for VA version
2. Default set to Manual On, not available with VLP
3. Wall plates included in white or ivory only for 347 VAC units
4. Matching wall plate provided for 120/277 VAC units
5. Available only on WSX PDT Series.

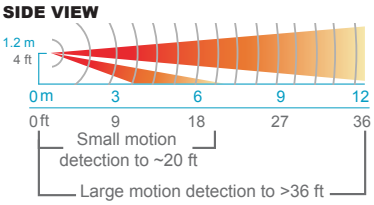
## SPECIFICATIONS

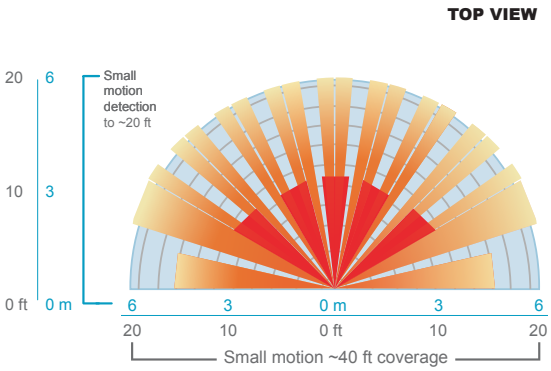
| | |
|---|---|
| Size: | 2.74"H x 1.68"W x 1.63"D (not including ground strap) |
| Weight: | 5 oz |
| Mounting: | Single gang switch box |
| Mounting Height: | 30-48 in |
| Maximum Load/Pole: | (Relay) 800W @ 120VAC, 1200W @ 277VAC, 1500W @ 347VAC |
| Minimum Load: | None |
| Motor Load: | 1/4 HP |
| Frequency: | 50/60 Hz (timers are 1.2x for 50Hz) |
| Temperature Rating: | 0°C-60°C |


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## COVERAGE PATTERNS

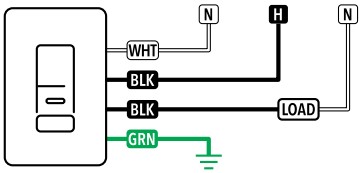
- Small motion (e.g., hand movements) detection up to 20 ft (6.10 m), ~625 ft²
- Large motion (e.g., walking) detection greater than 36 ft (10.97 m), ~2025 ft²
- Wall-to-Wall coverage
- Passive Dual Technology (Microphonics) provides overlapping detection of human activity over the complete PIR coverage area. Advanced filtering is utilized to prevent non-occupant noises from keeping the lights on.
- Tested to NEMA WD 7-2011



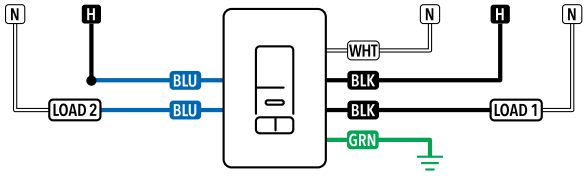




## CONVERTIBLE NEUTRAL

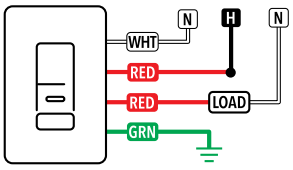
SINGLE RELAY, 120/277 VAC



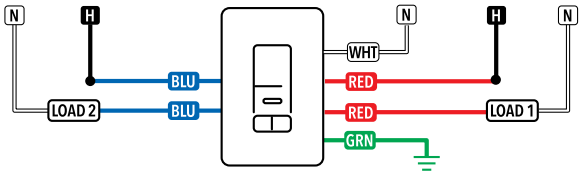

DUAL RELAY, 120/277 VAC




SINGLE RELAY, 347 VAC

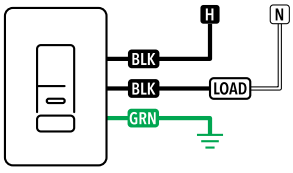



DUAL RELAY, 347 VAC

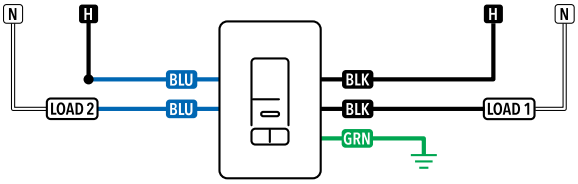



## GROUND ONLY

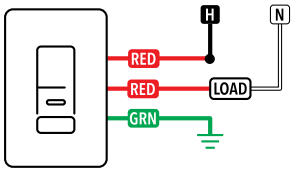
SINGLE RELAY, 120/277 VAC



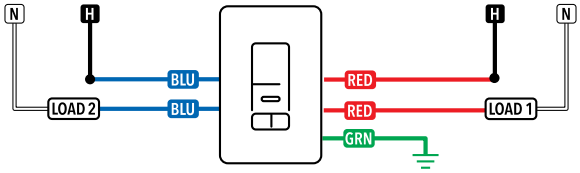

DUAL RELAY, 120/277 VAC




SINGLE RELAY, 347 VAC




DUAL RELAY, 347 VAC




**Notes:**

- Unit will draw power from either line connection.
- When switching 277 VAC or 347 VAC on both relays, the line inputs must be of the same phase.
- For dual relay, both relays must be fed from the same circuit.

WSX Family (IS-WSX-003)


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| Catalog Number: | Date: | Project: |
|---|---|---|

## OVERVIEW

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## FEATURES

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- 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)
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- Vandal resistant lens

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AcuityControls™

Sensor Switch™

# WSX Family



**WSX**
**WSX PDT**
**Single Relay**

**WSX 2P**
**WSX PDT 2P**
**Dual Relay**

**WSX NL**
**WSX PDT NL**
**Night Light**

Available on the App Store

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VLP

c UL us LISTED


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## ORDERING INFORMATION

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| | VA Vacancy only | | | GY Gray | |
| | NL[2] Nightlight | | | AL Almond | |
| | | | | BK Black | |
| | | | | RD Red | |

**WSX DUAL RELAY** — **Example: WSX 2P NL WH**

| Series | Operating Mode[1] | Voltage | Color[4] | Temp / Humidity |
|---|---|---|---|---|
| WSX 2P Passive infrared (PIR) | [blank] Pole 1 auto-on Pole 2 vacancy | [blank] 120-277 VAC | WH White AL Lt. Almond | [blank] Standard |
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| | NL[2] Nightlight | | | |

**Notes:**

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5. Available only on WSX PDT Series.

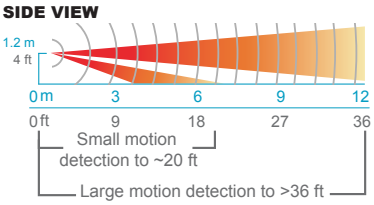
## SPECIFICATIONS

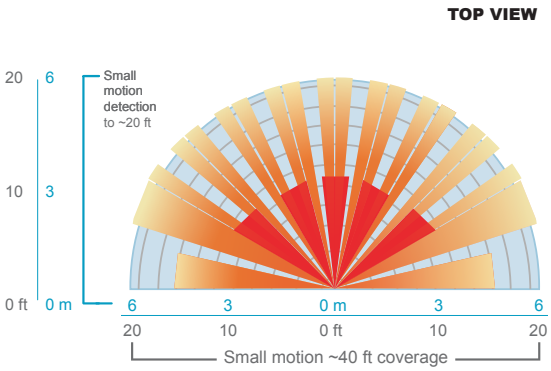
| | |
|---|---|
| Size: | 2.74"H x 1.68"W x 1.63"D (not including ground strap) |
| Weight: | 5 oz |
| Mounting: | Single gang switch box |
| Mounting Height: | 30-48 in |
| Maximum Load/Pole: | (Relay) 800W @ 120VAC, 1200W @ 277VAC, 1500W @ 347VAC |
| Minimum Load: | None |
| Motor Load: | 1/4 HP |
| Frequency: | 50/60 Hz (timers are 1.2x for 50Hz) |
| Temperature Rating: | 0°C-60°C |


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## COVERAGE PATTERNS

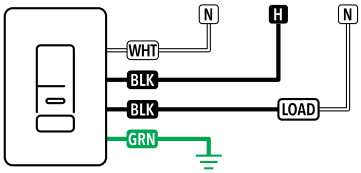
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- Tested to NEMA WD 7-2011



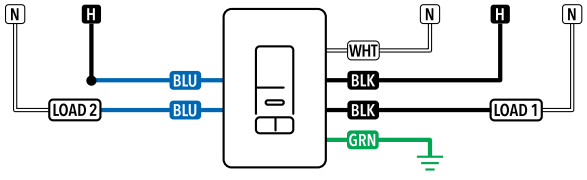




## CONVERTIBLE NEUTRAL

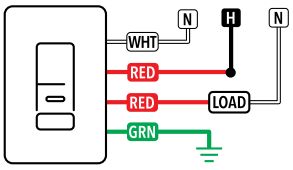
SINGLE RELAY, 120/277 VAC



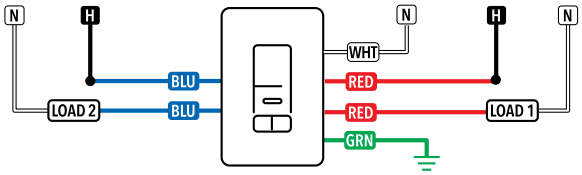

DUAL RELAY, 120/277 VAC




SINGLE RELAY, 347 VAC

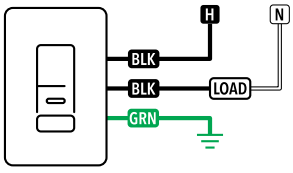



DUAL RELAY, 347 VAC

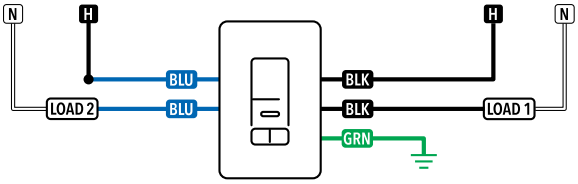



## GROUND ONLY

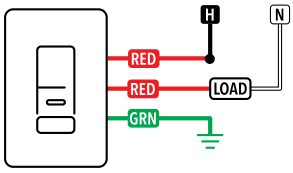
SINGLE RELAY, 120/277 VAC



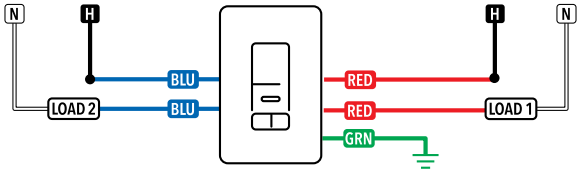

DUAL RELAY, 120/277 VAC




SINGLE RELAY, 347 VAC




DUAL RELAY, 347 VAC




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WSX Family (IS-WSX-003)


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