WSX FAMILY INSTRUCTIONS

SPECIFICATIONS

PHYSICAL SPECS
SIZE: 2.74"H x 1.68"W x 1.63"D (6.96 cm x 4.27 cm x 4.14 cm)
(not including ground strap)
WEIGHT: 5 oz
MOUNTING: Single Gang Switch Box
MOUNTING HEIGHT: 30-48 in (76.2-121.9 cm)
SILICONE FREE
ROHS COMPLIANT

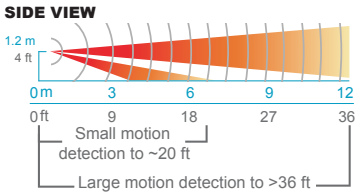
ELECTRICAL SPECS
MAXIMUM LOAD (Single Phase)
800 W @ 120 VAC
1200 W @ 277 VAC
1500 W @ 347 VAC
MINIMUM LOAD: None
MOTOR LOAD: 1/4 HP
FREQUENCY: 50/60 Hz (timers are 1.2x for 50 Hz)

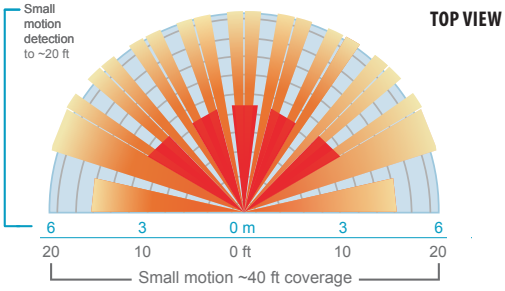
ENVIRONMENTAL SPECS
OPERATING TEMP
Standard: 14º to 122º F (-10º to 50º C)
LT Option (PIR): -40º to 122º F (-40º to 50º C)
LT Option (PDT): -4º to 122º F (-20º to 50º C)
RELATIVE HUMIDITY:
Standard: 20 to 75% non-condensing
LT Option: 20 to 90% non-condensing
(electronics coated for corrosion resistance)

BASE MODEL #s
WSX: Passive Infrared (PIR) Detection - Auto On
WSX SA: Passive Infrared (PIR) Detection - Manual On
WSX NL: Passive Infrared (PIR) Detection - Manual On
WSX PDT: Dual Technology (PIR + Microphonics) Detection - Auto On
WSX PDT SA: Dual Technology (PIR + Microphonics) Detection - Manual On
WSX PDT NL: Dual Technology (PIR + Microphonics) Detection - Manual On

COVERAGE PATTERN

- 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.

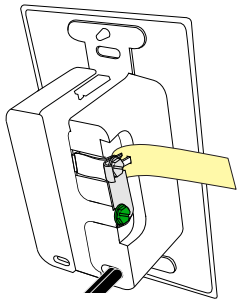




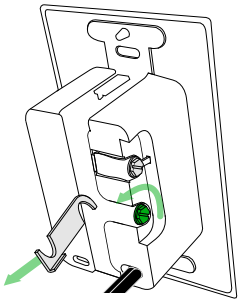
CONVERSION FROM GROUND ONLY (NO NEUTRAL) TO NEUTRAL WIRING

This product is pre-configured for wiring without a neutral; however, if connection to neutral is required by code, the unit easily converts in seconds.

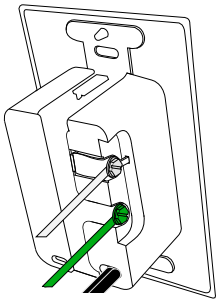
Step 1: Remove Yellow Label



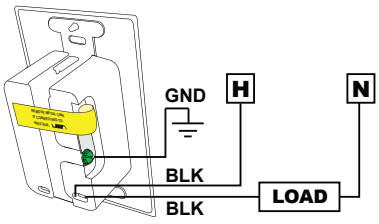
Step 2: Loosen Screws and Remove Metal Link



Step 3: Connect Neutral to Silver Screw and Ground to Green Screw



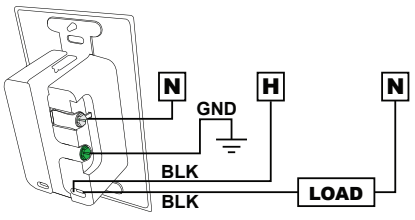
WIRING TO GROUND (NO NEUTRAL)

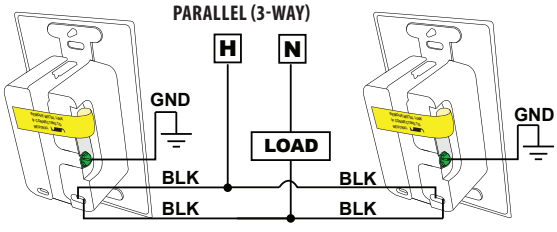


WIRE COLOR KEY
120/277 VAC WIRING
BLACK* - Line Input
BLACK* - Load Output
*BLACK wires can be reversed
347 VAC WIRING (-347 Option)
Red wires replace Black wires.

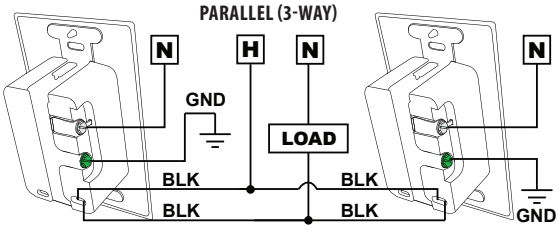
For additional wiring diagrams, scan QR CODE below or go to:
http://bit.ly/12HaeEF

WIRING TO NEUTRAL





NOTE: When wiring in parallel, both units must time out for lights to turn off. Disabling switch function is recommended (Function 4, Setting 2).



OPERATIONAL SETTINGS

NOTE: (*) Indicates factory default (unless otherwise marked)

2 = Occupancy Time Delay

Time sensor keeps lights on after last occupancy detection.

1 30 sec **4** 7.5 min **7** 15.0 min **13** 30.0 min
2 2.5 min **5** 10.0 min* **8** 17.5 min
3 5.0 min **6** 12.5 min **9** 20.0 min

For additional time settings, contact technical support at 1.800.PASSIVE

3 = On Mode

Automatic On turns lights on when occupancy is detected. Manual On requires a button press to turn the lights on. Reduced Turn-On directs the sensor to only detect large motions, such as a person entering a room. Weaker signals, such as reflections from glass, are ignored. Once lights are on, the sensor returns to maximum sensitivity.

1 Automatic On* **2** Manual On** **3** Reduced Turn-On

* *Standard Factory Default*
** *Factory Default for -SA and -NL versions*

4 = Switch Modes

These modes dictate switch functionality. Pressing the button in Override Off mode (setting 1) turns off and keeps lights off until pressed again. Disabling the Switch (setting 2) prevents the button from turning the lights on.

Predictive Mode (setting 3) automatically determines if a user has left the room after the lights are switched off. It does this by monitoring the space for a period after the button is pressed (Predictive Grace Time), following a certain delay (Predictive Exit Time). If occupancy is detected the device will disable auto-on and hold the lights off until manually switched. If no occupancy is detected the sensor instantly reverts to auto-on mode. *(continued next column)*

If Predictive Mode with Expiration (setting 4) is enabled, once the sensor has disabled auto-on it will continue to monitor the space. When no occupancy is detected for a duration equal to the occupancy time delay, the sensor will revert to auto-on mode.

1 Override Off **
2 Switch Disable
3 Predictive Mode
4 Predictive Mode with Expiration*

* *Standard Factory Default*
** *Factory Default for -SA and -NL versions*

5 = Photocell Set-Point

The ambient light level at which the sensor prevents the lights from initially turning on. Once on, the lights will remain on until the occupancy time delay expires and turns them off.

1 Disabled* **6** 4 fc
2 Auto Setpoint **7** 8 fc
3 0.5 fc **8** 16 fc
4 1 fc **9** 32 fc
5 2 fc **10** 64 fc

Note: Sensor will be changed to Automatic On mode if photocell is enabled. Photocell not present in -NL versions. LED flashes while Auto-Setpoint mode is running.

7 = LED Operation

Indicates behavior of device's LED.

1 Occupancy Indication* **3** Disabled
2 Relay Indication **4** Override On***

Standard Factory Default* * *Factory Default for -NL version*

9 = Restore Factory Defaults

Returns all functions to original settings.

1 Maintain Current* **2** Restore Defaults

10 = Minimum On Time

Required initial time for lamps to be on after each switch on, regardless of occupancy status. Once met, lights resume following occupancy time delay.

1 0 min (disabled)* **3** 30 min **5** 60 min
2 15 min **4** 45 min

11 = Manual On Grace Period

Time period after lights automatically turn off that they can be reactivated by motion. (Manual On (Semi-Auto) mode only).

1 0 sec **2** Unused **3** 15 sec*

12 = Dual Technology (Microphonics™)

Relative responsiveness of Microphonics detection. Included in -PDT versions only.

1 Normal* **3** Medium **5** Phase Off (15-10-5 min)
2 Off **4** Low

13 = Microphone Grace Period

Time period after lights are automatically turned off that they can be voice reactivated. Included in -PDT versions only.

1 0 sec **3** 20 sec **5** 40 sec **7** 60 sec
2 10 sec* **4** 30 sec **6** 50 sec

15 = Predictive Mode Exit Time

Time period after manually switching lights off for occupant to leave the space.

1 5 sec **3** 7 sec **5** 9 sec **7** 15 sec **9** 30 sec
2 6 sec **4** 8 sec **6** 10 sec* **8** 20 sec

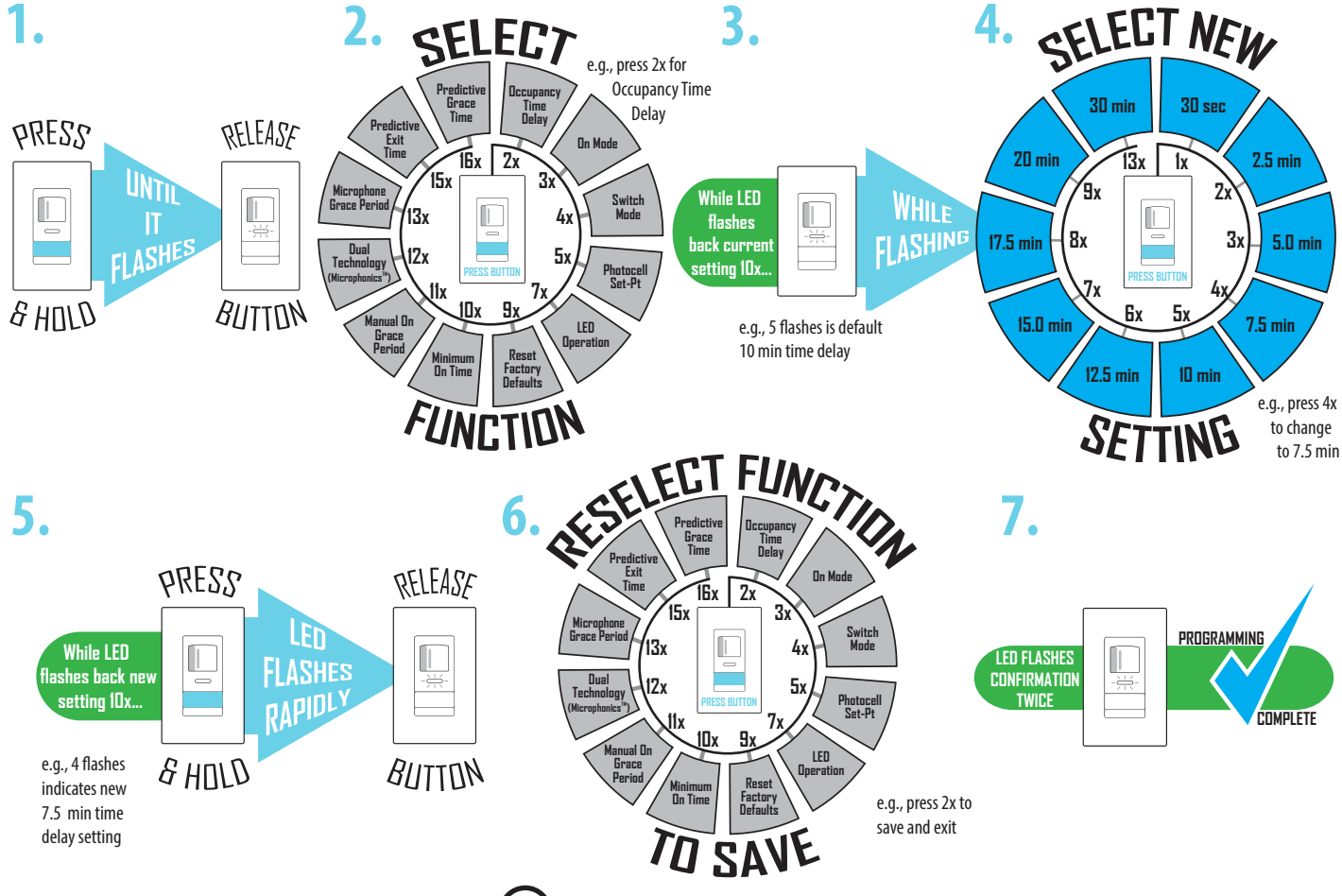
16 = Predictive Mode Grace Time

Time period after Predictive Mode Exit Time that sensor rescans the room for remaining occupants.

1 0 sec **3** 10 sec **5** 30 sec* **7** 50 sec
2 5 sec **4** 20 sec **6** 40 sec **8** 60 sec

PROGRAMMING INSTRUCTIONS

Operational settings can be changed via the push-button sequence outlined below (note the example used is for changing occupancy time delay).



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WARRANTY

5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

