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Installation Guide

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sensor switch WSRA Series Wall Switch Sensor with Occupancy



Specifications:

- Series: WSRA Series
- Operational Settings: Occupancy Time Delay, On Mode, Switch
- Modes, Darkness Set-Point, Photocell Mode, LED Operation, Manual On
- Grace Period, Predictive Exit Time, Predictive Grace Time, Fade On Rate

Occupancy Time Delay:

The occupancy sensor can be set to keep the lights on for different durations after detecting occupancy. Adjust the setting as per your preference.

On Mode:

Choose between Automatic On, Manual On, or Reduced Turn-On modes based on your requirements. Automatic On turns the lights on automatically upon occupancy detection, Manual On requires manual intervention to turn the lights on, and Reduced Turn-On initially ignores small motions.

Switch Modes:

Switch between different modes such as Switch Disable, Predictive Mode, and Predictive Mode with Expiration. These modes control how the sensor operates after a certain period of inactivity.

Darkness Set-Point / Inhibit Set-Point:

Set the ambient light level at which the lights will be adjusted to the High Trim setting. The Set Now option automatically selects the Darkness Set-Point based on current conditions in the room.

Photocell Mode

Enable or disable the feature that prevents lights from turning on when the light level is above the Inhibit Set-Point.

Restore Defaults

Reset all functions to their original settings if needed.

LED Operation

Select the behavior of the device's LED indicator.

Manual On Grace Period

Set a grace period for manual control of the lights when in Manual On mode.

Predictive Exit Time and Predictive Grace Time

Adjust the time intervals for predictive exit and grace periods when occupants leave the room.

Fade On Rate

Set the time required for the lights to reach their preset brightness level.

Operational settings

Occupancy Time Delay:

The length of time an occupancy sensor will keep the lights on after it last detects occupancy.

Setting	Occupancy Time Delay
1	30 sec
2	2.5 min
3	5.0 min
4	7.5 min
5	10.0 min (<i>default</i>)
6	12.5 min
7	15.0 min
8	17.5 min
9	20.0 min
10	22.5 min
11	25.0 min

Setting	Occupancy Time Delay
12	27.5 min
13	30.0 min

3=On Mode

Not applicable with Vacancy (VA) Option

Automatic On

Sensor automatically turns the lights on when it detects occupancy.

Manual On

Sensor requires pressing the button to turn the lights on.

Reduced Turn-On

Sensor is set to initially only detect large motions, effectively ignoring any reflected Passive Infrared (PIR) signals. Occupants will still be detected immediately when they enter the room as their PIR signal is large. Once lights are on, the sensor returns to maximum sensitivity.

1. Automatic On
2. Reduced Turn-On
3. Manual On ‘

4=Switch Modes

Not applicable with Vacancy (VA) Option

Switch Enable (Override Off)

Button will turn lights And keep them off until pressed again. The lights will remain off until the button IS pressed again, resetting the sensor to Automatic On mode.

Switch Disable

User is prevented from turning off the lights via the push-button.

Predictive Mode

Pressing the push-button switch turns the lights off and temporarily disables the

occupancy detection. After 10 seconds, the occupancy detection reactivates and monitors for an additional 30 seconds. If no occupancy is detected during this period, the sensor will revert to Automatic On operation. If occupancy is detected, the sensor will remain in Override Off mode and requires the switch to be pressed in order to restore the sensor to Automatic On.

Predictive Mode with Expiration

Pressing push-button switch turns the lights off and temporarily disables the occupancy detection. After 10 seconds, the occupancy detection reactivates and monitors for an additional 30 seconds. If no occupancy is detected during this period, the sensor will revert to Automatic On operation.

1. Switch Enable
2. Switch Disable
3. Predictive Mode
4. Predictive Mode with Expiration.

5=Darkness Set-Point / Inhibit Set-Point

The ambient light level at which the sensor sets the lights to the High Trim setting.

Setting	Light Level (fc)	Notes
1	Set NOW*	Default/current setting
2	0.1 fc	Very low light
3	1 fc	Low light
4	4 fc	Moderate low light
5	8 fc	Medium light
6	16 fc	Medium-high light
7	24 fc*	Default recommended
8	32 fc	Bright light

Setting	Light Level (fc)	Notes
9	48 fc	Very bright
10	64 fc	High light
11	Off	Light level off
12	96 fc	Maximum standard brightness
13	128 fc	Extra bright
14	192 fc	Extremely bright
15	256 fc	Maximum setting

Set Now will automatically select the Darkness Set-Point based on the current conditions in the room. Lights will go to full bright and sensor will rapidly flash for 15 seconds, allowing the occupant to move out of direct view of sensor. Once the set-point selection is completed, the sensor will double-blink in confirmation.

7=Photocell Mode

Inhibit Only

Prevents lights from automatically coming on when light level is above the Inhibit Set-Point

1. Disabled
2. Inhibit Only

9=Restore Defaults

Returns all functions to their original settings.

1. Maintain Current*
2. Restore Defaults

11=LED Operation

Indicates behavior of the device's LED.

1. Occupancy Indication*
2. Disabled

14 = Manual On Grace Period

Time period after lights automatically turn off that they can be reactivated by motion, Applicable only when sensor is in Manual On (Semi Auto) mode.

- 1-0sec
- 3-15sec

17 = Predictive Exit Time

Time period after manually switching lights off to leave the space. Applicable only when sensor is in Predictive Off mode.

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

18 = Predictive Grace Time

Time period after Predictive Exit Time that sensor rescans the RMRN for remaining occupants. Applicable only when sensor is in Predictive Off mode.

- 1-0sec
- 2-5s
- 3-10K
- 4-20 sec
- 5-30sec

- 6-40K
- 7-50 sec
- 8-60sec

19 = Fade On Rate

Time required for light to reach preset lceL

- 1-0.75 see
- 2-25sec
- 3-5sec
- 4-15s«

20 = Fade Off Rate

Time required for light to turn Off

- 1-0.75 sec
- 2-15see
- 3-5sec
- 4-15sec

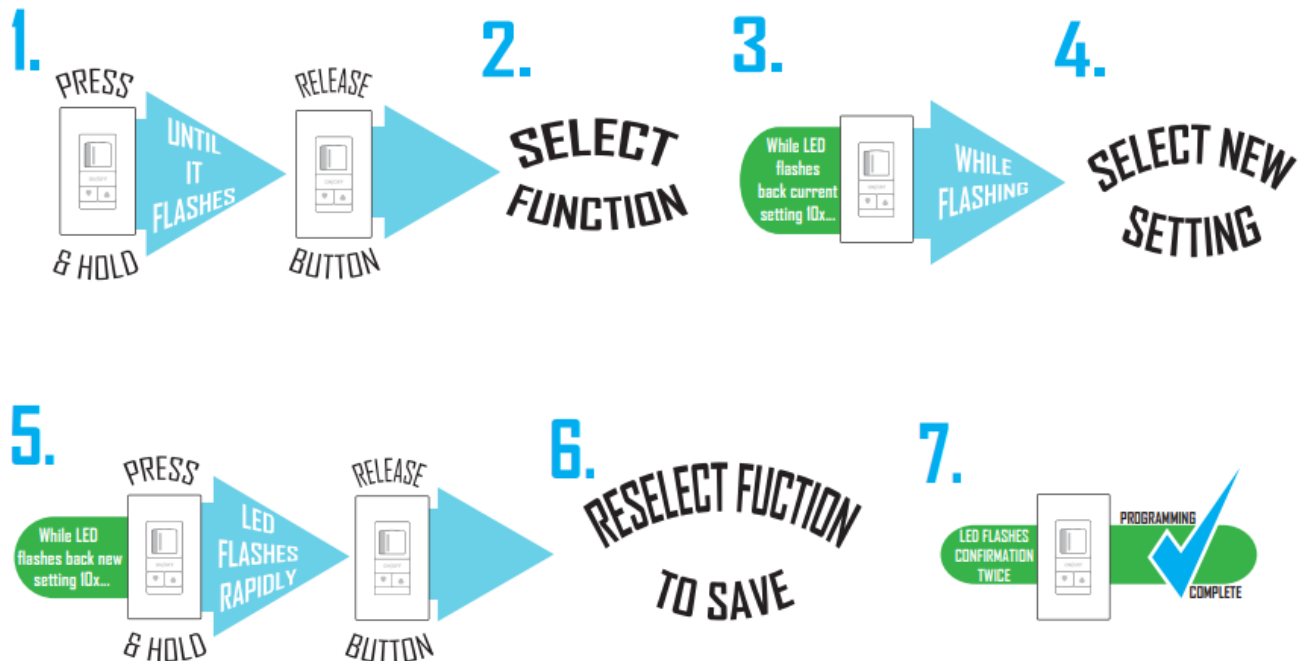
OPERATIONAL SETTING INSTRUCTIONS

PLEASE READ A1 1 7 STEPS BEFORE PROGRAMMING

- Enter programming mode by pressing & holding button until LED flashes rapidly. Release button.
- Enter a specific function by pressing button. The number Of times as the desired function number from the tables on the following pages (e.g., press twice for function 2, Occupancy Time Delay).
- The selected function's current setting will then be read out in a sequenæ of LED flashes (e.g., five flashes for 10 min). TO change setting, proceed to step 4 before sequence repeats 10 times.
- While the sensor is flashing back current setting, interrupt it by pressing button the number of times for the new desired setting as indicated in the particular function's detailed table (e.g., press seven times for 15 min). Sensor will begin to flash new

setting as confirmation.

- Next, while the sensor is flashing back new setting, interrupt it by pressing and holding button until LED flashes rapidly. Release button.
- As final confirmation and activation Of the new setting, re-enter the function number that was changed (e.g., press twice for function 2, Occupancy Time Delay).
- LED will flash twice indicating acceptance of new setting. If two flashes are not seen, repeat 7 step process



Note:

TO exit programming mode without saving or to change to a different function, wait for the blink back sequence to repeat 10 times, then return to step 1.

WARRANTY

5-year limited warranty. Complete warranty terms located at

www.acuitybrands.com/CustomerResourcesTerms_and_conditions.as x

READ AND FOLLOW ALL SAFETY INSTRUCTIONS!

SAVE THESE INSTRUCTIONS AND DELIVER TO THE OWNER AFTER INSTALLATION

- Acuity Brands | One Lithonia Way Conyers, GA 30012
- Phone: 800.535.2465 www.acuitybrands.com/sensorswitch @2014-2021 Acuity

Brands Lighting, Inc.

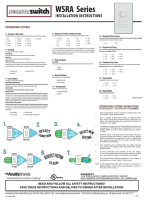
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FAQs

How do I reset all settings to default?

Navigate to the Restore Defaults option and select 'Restore Defaults' to reset all functions to their original settings.

Documents / Resources

	sensor switch WSRA Series Wall Switch Sensor with Occupancy [pdf] Installation Guide is-wsra 220VAC Edits V5, WSRA Series Wall Switch Sensor with Occupancy, WSRA Series, Wall Switch Sensor with Occupancy, Switch Sensor with Occupancy, Sensor with Occupancy
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References

- [User Manual](#)

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