sensor**switch** ®

SSD VA 120

RESIDENTIAL WALL SWITCH DECORATOR SENSOR
120 VAC • VACANCY (MANUAL ON) • PASSIVE INFRARED (PIR)

SPECIFICATIONS

FEATURES
Manual On
Manual Off or Auto Off
PIR Occupancy Detection
No Minimum Load Required
Switches Incandescent, CFL, LED, and
 Electronic & Magnetic Fluorescent
 Lighting
Interchangeable Hot & Load Wires -
 Impossible to Wire Backwards
No Neutral Connection Required
Small Motion Detection to 20 ft (6.10 m)
Self-Grounding Mounting Strap
Push-Button Time Delay Programming
 w/o Removing the Switch Plate
Adjustable Time Delay Setting
 (30 sec - 20 min)
Non-Volatile Settings Memory
Green LED Indicator

PHYSICAL SPECS
SIZE 4.2"H x 1.8"W x 1.5"D
 (10.67cm x 4.57cm x 3.81cm)
WEIGHT 5 oz
MOUNTING Single Gang Switch Box
MOUNTING HEIGHT 30-48 in
 (76.2-121.9 cm)
COLORS White, Ivory

ELECTRICAL SPECS
MAXIMUM LOAD
 800 W @ 120 VAC
MINIMUM LOAD None
MOTOR LOAD 1/4 HP
FREQUENCY 60 Hz

ENVIRONMENTAL SPECS
OPERATING TEMP
 14º to 160º F (-10º to 71º C)
RELATIVE HUMIDITY
 20 to 90% non-condensing
SILICONE FREE

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TITLE 24
ASSEMBLED in U.S.A.
5 YEAR WARRANTY

OVERVIEW
The **SSD VA 120** Series is a residential grade wall switch vacancy (manual on) sensor that utilizes Passive Infrared detection. Compliant with California Title 24 Residential Lighting Standards, the **SSD VA 120** turns connected lights on when a user presses the push-button. Lights can be manually turned off by pressing the button again, or they will be automatically turned off once the vacancy time delay expires. Wiring the sensor is simple as the line and load wires are interchangeable, making it impossible to connect backwards. Additionally, unlike other residential grade wall switch sensors, the **SSD VA 120** does not require a neutral connection, nor is there a minimum load requirement.

COMMON RESIDENTIAL APPLICATIONS

Bedrooms	Bathrooms	Basements
Utility/Laundry Rooms	Dining Rooms	Garages
Kitchens	Living/Family Rooms	Closets

SENSOR OPERATION
When the push-button is pressed, a self-contained relay switches the connected lighting load on. The sensor is line powered and switches line voltage (see specifications). Once on, the sensor detects changes in the infrared energy given off by occupants as they move within the field-of-view. A timer, factory set at 10 min, keeps the lights on during brief periods of inactivity. This timer is push-button programmable in 2.5 min increments up to 20 minutes, and resets every time occupancy is re-detected. A 30 sec setting is also provided for initial testing. Once the timer expires the lights are automatically turned off. For convenience, during the first 15 sec after lights are turned off, the sensor can automatically switch them back on if it detects motion. The LED indicator blinks every time occupancy is detected by the sensor.

ORDERING INFO

| CATALOG NUMBER	DESCRIPTION
SSD VA 120 WH	Residential Grade Wall Switch Vacancy (Manual On) Sensor, PIR, 120 VAC, White*
SSD VA 120 IV	Residential Grade Wall Switch Vacancy (Manual On) Sensor, PIR, 120 VAC, Ivory*

*Wall plate not included

COVERAGE PATTERN

• Small motion (e.g. hand movements) detection up to 20 ft (6.10 m)
• Large motion (e.g. walking) detection up to 50 ft (15.24 m)
• Wall-to-Wall coverage
• Obstructions that block the sensor's line of site will prevent detection
• Sensor will not see through glass

4 ft
1.2 m

SIDE VIEW

0 m   3   6
0 ft   5   10   15   20

TOP VIEW

6   3   0 m   3   6
20   10   0 ft   10   20
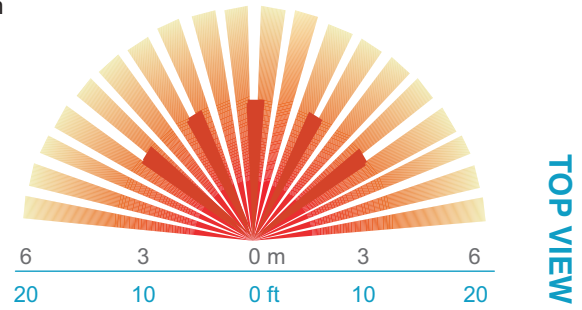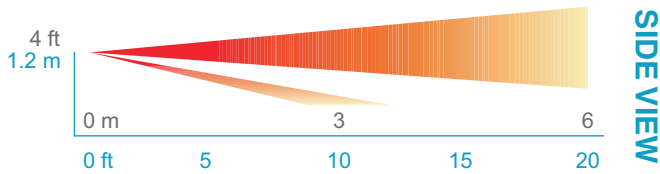
WIRING (DO NOT WIRE HOT)

BLACK*   - Line Input
BLACK*   - Load Output } *BLACK wires can be reversed
GREEN SCREW - Ground (required connection)

H   N

BLK
BLK   LOAD
GRN
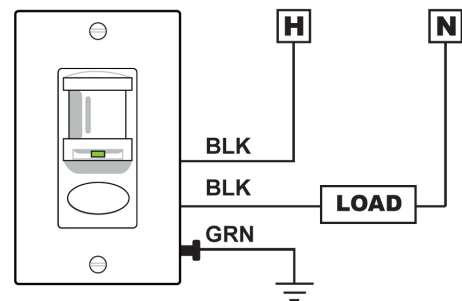
Note: Connection to Ground required for sensor to function

PROGRAMMING INSTRUCTIONS

1. Enter programming mode by pressing & holding button until LED flashes rapidly. Release button.

2. Enter the *Time Delay* function by pressing button twice.

3. The current *Time Delay* setting will then be fed out in a sequence of LED flashes as indicated in the table below (e.g., five flashes for 10 min). To change the setting, proceed to step 4 before sequence repeats 10 times.

4. At any time while the switch is flashing back the current *Time Delay* setting, interrupt it by pressing button the number of times for the new desired *Time Delay* setting as indicated in the table below (e.g., press twice for 2.5 min). Switch will begin to flash back new setting as confirmation.

5. Next, while the switch is flashing back new setting, interrupt it by pressing and holding button until LED flashes rapidly. Release button.

6. As final confirmation and activation of the new setting, press button two times.

7. 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, wait for blink back sequence to repeat 10 times then return to step 1.

Function Number	Function Name	Settings (*indicates default setting)		
2	Time Delay	1 - 30 sec	4 - 7.5 min	7 - 15 min
		2 - 2.5 min	5 - 10 min*	8 - 17.5 min
		3 - 5 min	6 - 12.5 min	9 - 20 min

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