



BASIC OPERATION

The SWP-WV00 is a low-voltage infrared occupancy sensor that works with Encelium’s ECS, Power Pack, or Power Base Adaptor to automatically control lighting. By sensing moving infrared heat sources, the sensor automatically turns the lights on during occupancy, maintains lights-on and, after a time delay, turns the lights off when the space is vacated.

The sensor uses a wide view (110 degrees) lens which detects large body motions over 50 ft. away. Smaller motions such as hand movement can be detected up to 34 feet. An internal light sensor allows the user to set the daylight override level.

The mounting base, provided with the sensor, allows quick and easy mounting in corners, on walls or on ceilings using the “twist-and-lock” feature.

APPLICATIONS

- Cafeterias
- Classrooms
- Workspaces
- Copy rooms
- Open offices
- Parking garages
- Open areas
- Stairwells
- Open warehouses
- Conference rooms

FEATURES

- **Integrates** seamlessly with Encelium Lighting Control System.
- **Fast, Simple Installation:** Easy base mount, three wire connection (low voltage) and twist-lock sensor attachment.

HOW THE SWP-WV00 AUTOMATICALLY ADAPTS

Condition	Example	Self-Adaptive Reaction
Timer Left In Test Mode - The sensor remains in an 6 sec. test mode.	An installer accidentally leaves the sensor in the 6 sec. timer test mode and the lights may go off or on every 6 sec.	The sensor automatically resets the timer to 10 min. after 15 min of test mode.
False-On - The sensor incorrectly turns the lights on.	The sensor detects movement in the corridor or hallway and the room lights turn on.	After an initial movement is sensed, if another movement is not sensed within the timer setting then the delayed off time setting is automatically reduced.
False-Off - The sensor incorrectly turns the lights off.	The sensor does not detect movement because an occupant sits virtually motionless at a desk and the lights turn off.	If motion is sensed within a short period after the lights go off, then the current delayed off-time setting is increased.

SWP-WV00

- **Flexible Base Mounting:** Supplied twist-and-lock base mount permits fast alignment. Adjustable canopy for wall or ceiling mount.
- **Wide Coverage:** Over 2,500 sq. ft. of coverage at 8 foot ceiling height with 110 degree aperture.
- **Power base (PBA-015) available** for line voltage applications.
- **Non-Volatile Memory:** Learned and adjusted settings saved in protected memory are not lost during power outages.
- **Timer Setting Feature:** Automatic - 30sec - 30min. Test mode - 6sec with auto exit programming.
- **High Motion Sensitivity:** The large lens area and multi-element lens design give excellent range and sensitivity.
- **Infrared Sensing:** High sensitivity 9.8 micron sensor dual element, semiconductor type.
- **Lens:** 110° aperture, lens opening 2.2” x 1.47”, 36 elements (72 zones) small motion range 31 ft, large motion 68 ft.
- **Ambient Light Mode:** Integrated photocell prevents lights turning on under adequate ambient light.
- **Auto-Adapting Mode:** Internal microprocessor continually analyzes and adjusts the sensitivity and time delay.
- **Walk-Through Mode:** Provides increased energy savings by decreasing the time delay to 2.5min when someone momentarily walks through the monitored space.

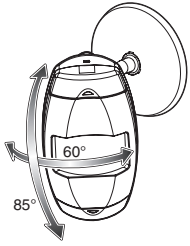
FOR GREATER SAVINGS

Combine with Encelium’s Energy Control System to gain considerable benefits over occupancy sensors alone:

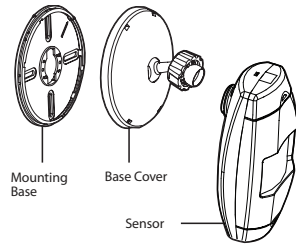
- **Polaris™ Software** enables the addition of Daylight-Harvesting, Time Scheduling, Task Tuning, Variable Load Shedding, Personal Control, for significantly greater energy savings.
- **Software Remapping:** any sensor to any zone.
- **Software Adjustable:** Time-out, delay, light levels.
- **Connects directly** to Encelium I/O Module.
- **BACnet Interface** (optional): Occupancy sensing for building automation, HVAC, security, traffic data, etc.

SWP-WV00

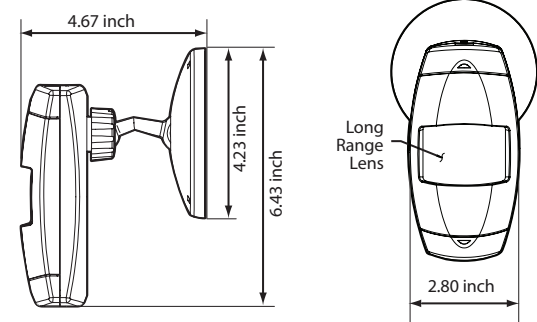
ADJUSTMENT RANGE



MOUNTING BRACKET



DIMENSIONS



DIP SWITCH SETTINGS			
SWITCH	BANK A	SWITCH FUNCTIONS	SWITCH SETTINGS
	BANK A	OFF	ON
A1	N/A	N/A	N/A
A2	N/A	N/A	N/A
A3	Manual Mode	Auto Adapting Enabled	Auto Adapting Disabled
A4	Walk-Thru Disable	Walk-Thru Enabled	Walk-Thru Disabled
	BANK B		
B1	Override to On	Auto Mode	Lights forced On
B2	Override to Off	Auto Mode	Lights forced Off
B3	Test Mode	OFF►ON►OFF to start Test Mode. Auto-exits after 15 min.	
B4	LED Disable	LEDs Enabled	LEDs Disabled

*Bold items are factory defaults

SPECIFICATIONS

ELECTRICAL	
Power Requirements	24 VDC, 15 mA works with Encelium IOM, PPK Power Pack, or PBA Power Base Adaptor.
Power Consumption	15mA Stand-by
Output	24 VDC active high logic control signal with short circuit protection (blue wire). Gray wire adds Light Sensor logic.
CONTROLS	
Infrared Sensitivity	0 to 100%: red knob (factory setting: 75%)
Light Sensor	Blue knob 20 to 3,000 Lux. Factory set at 100% (Grey wire required)
Time Delay	30sec-30min; black knob (Factory setting: 5 min)
INDICATORS	
Red LED	Infrared motion technology
ENVIRONMENTAL	
Operating Temperature Range	32°F to 104°F (0°C to 40°C)
Relative Humidity	0% to 95% non-condensing, for indoor use only
OTHER	
Mounting Height	8-10 feet
Listings	CUL/US Certified, meets ASHRAE Standard 90.1 and CEC Title 24 requirements
Warranty	Limited Five-Year Warranty

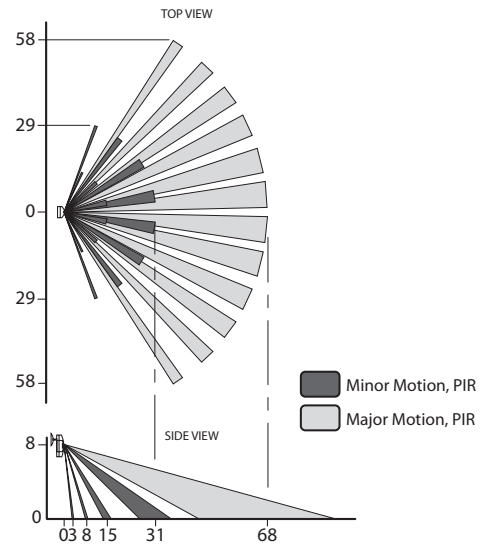
ORDERING INFORMATION

CAT NO.	DESCRIPTION
SWP-WV00	Passive Infrared Wideview Occupancy Sensor

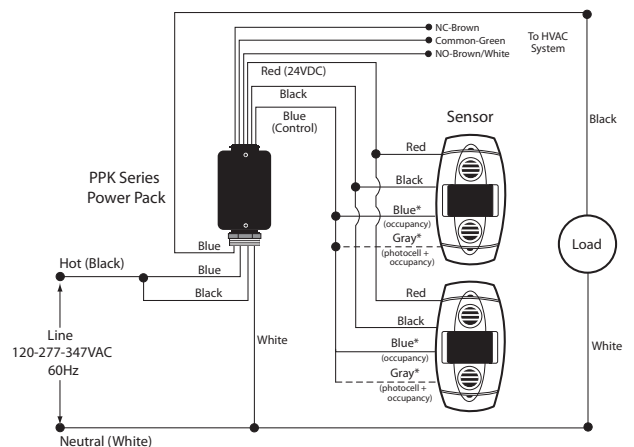
Encelium's PBA-015 Power Base Adaptor can be used in place of a Power Pack for single-sensor, 15 Amp load applications. See Encelium's PBA-015 datasheet for more information.

FIELD-OF-VIEW

Field of View (in feet)



STAND-ALONE WIRING APPLICATION



When used with Encelium's Lighting Control System, a Power Pack is not required for sensor installation. Please refer to document 'Encelium I/O Module to Sensor Installation Instructions' for full information.

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