

Overview

The PIR Wall Switch Sensor is a wall mount passive infrared (PIR) occupancy sensor with integrated wall switch that communicates wirelessly to Echoflex controllers. The OWS-IR-UW-120/277 is a no-neutral conductor powered device connecting to line voltage and earth ground. The OWS-IR-UW-BTY is powered by a long shelf life battery.

The OWS-IR sensor is designed to simplify the control needs for small office spaces, boardrooms or other small enclosed spaces which require a wall switch and occupancy sensor. The integral dimming switch provides occupants with the necessary manual control of their lights.

The OWS fits well in applications where energy codes require the lights to be manually turned ON and automatically OFF with vacancy. When used with Echoflex Solution's dimming lighting controllers, the switch also provides manual dimming control of the lights. Echoflex controlled receptacles can be automated with the OWS so plug loads operate ON and OFF with the current occupancy state.

The OWS-IR provides 180 lateral degrees of coverage ideal for installation in small offices and boardrooms. Both models are installed in new or existing electrical wall boxes. The OWS-IR-UW-120/277 is connected to 120V or 277V line voltage and earth ground, and does not rely on the neutral conductor being present.

The OWS-IR is CEC Title 24 compliant and a key component in Echoflex's energy saving solutions.



Cover plate not included

Features

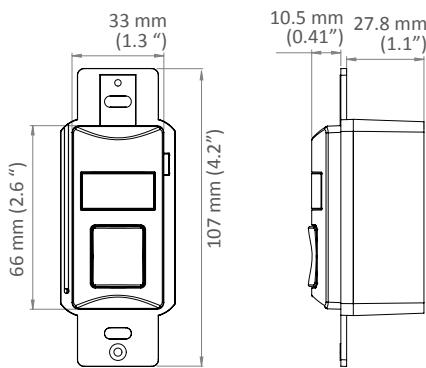
- PIR motion occupancy/vacancy sensor
- Wall mount with 180° angle of detection
- Integrated rocker switch with ON, OFF and dimming capability
- Provides immediate response to motion even in a dark room
- Sensitivity adjustment (high, medium or low) to avoid nuisance triggering
- Sends occupied and vacancy (PIR ON /OFF) telegrams
- Walk-Test feature allows installers to test operation and installation location
- Reliable radio reception range of 24 m (80 ft) - commercial office spaces (typical), up to 100m (330 ft) line of sight
- Vandal resistant lens
- 120/277V model is a no-neutral device connecting to line voltage present within the wall electrical box and earth ground
- Battery powered model design life target of at least 12 years of typical office use at 25°C.

Ordering Information

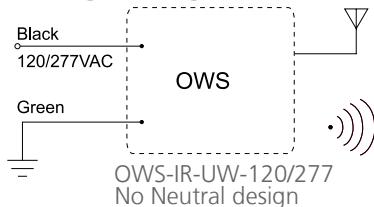
Description	902 MHz Model	902 MHz PN
PIR Wall Switch Sensor, 120/277VAC, No Neutral, White, 902 MHz	OWS-IR-UW-120/277	8188A1184-X-1
PIR Wall Switch Sensor, Battery Powered, White, 902 MHz	OWS-IR-UW-BTY	8188A1189-X-1
Switch Cover Plate, single gang - white	SP-01-W	HW8563

OWS-IR

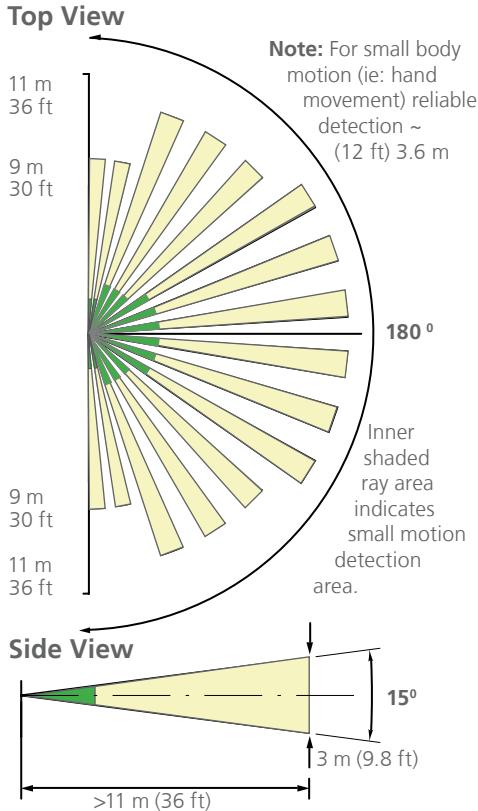
Dimensioned Diagram



Wiring Diagram



Lens Ray Diagram



Equipment Profile

EEP A5-07-01:	Occupancy Sensor
EEP F6-02-02	Light Control - ON, OFF, dimming

Hardware Specifications

	OWS-IR-UW-120/277	OWS-IR-UW-BTY
Power Supply	120/277VAC 60Hz	2 x AA Energizer Lithium
Power Consumption / Battery life expectancy	450 μ A max	At least 12 years of typical office use at 25°C (not user serviceable)
Indoor Use Only		Dry location

Communications

Radio Frequency	902 MHz(U)
Antenna	Integrated whip
Transmission Range	24 m (80 ft) - commercial office spaces (typical), up to 100m (330 ft) line of sight
Telegram Transmission	On motion or on heartbeat period
Telegram Heartbeat Period	Minimum 100 seconds

User Controls

Rocker Switch	ON, OFF and Dimming Control
Teach Button	For occupancy sensor and switch assignment to receiver and test mode selection
Output	3 LEDs (behind PIR lens) - indicating PIR activity

Mechanical Specifications

Operating Temperature	-10°C to 45°C (14°F to 113°F)
Storage Temperature	-25°C to 65°C (-13°F to 149°F)
Relative Humidity	5% to 95% RH (non-condensing)
Weight	60 g (2.12 oz)
Dimensions	41.5 x 107 x 42.5 mm (1.6 x 4.2 x 1.7") Wires exit from the rear of the OWS-IR-UW-120/277. Allow for additional space when selecting an electrical box
Mounting	Minimum electrical box size = 12.5 in ³ Cover plate not included

Compliance and Listings

CEC Title 24 Compliant	ASHRAE 90.1-2019
IECC 2018	RoHS

Safety

ETL Recognized Component
Conforms to UL 773A
Certified to CAN/CSA Std. C22.2 No.284-16

Radio Frequency 902 MHz

FCC Part 15.231 - Remote Control Transmitter
IC RSS-210



Specifications are subject to change without notification.