# Passive Infrared Wireless Occupancy Wall Switch Sensor

* 1. WIRELESS WALL SWITCH SENSOR
     1. Wall Switch Sensor
        1. The Occupancy Wall Switch Sensor shall be the Echoflex OWS-IR-120/277 Series by Echoflex Solutions, Inc., or equal.
        2. Mechanical
           1. The Wall Switch Sensor shall mount to a single gang ring using screws
           2. The Sensor shall fit standard decorator style switch plates. The Wall Switch Sensor shall be available in white
           3. The Wall Switch Sensor shall have a button for linking the sensor to a wireless controller

The button shall be accessible when the Wall Switch Sensor is mounted

The button shall be covered by the face plate.

There shall be separate pairing capabilities for the switch and the sensor portion of the Wall Switch Sensor

* + - * 1. The Wall Switch Sensor shall have a red LED indicator located behind a lens to show that PIR functionality is present
        2. The Wall Switch Sensor shall be constructed of ABS injection molded plastic that fully encloses all components
        3. The Wall Switch Sensor shall provide 180 degree PIR coverage from the sensor mounting location
        4. The Wall Switch Sensor shall have a vandal resistant lens that prevents the lens from being crushed
      1. Electrical
         1. The Wall Switch Sensor shall utilize 120 or 277 VAC for power.

###### The Wall Switch Sensor shall have a no-neutral conductor design

* + - * 1. The Wall Switch Sensor shall use a 902 MHz EnOcean radio. Systems that use other radio frequencies shall not be acceptable
        2. The Wall Switch Sensor shall have a radio range of at least 80 feet laterally through walls and up to 300 feet in open space
        3. The Wall Switch Sensor shall comply with FCC Part 15.231, IC RSS-210 and CEC Title 24
        4. The Wall Switch Sensor shall be ETL listed, conforming to UL and CSA standards for Photo Electric Lighting Control
      1. Functional
         1. The Wall Switch Sensor shall wirelessly transmit occupancy state

###### PIR Coverage Area

Large Motion ~ 2000 sq. feet

Small motion ~ 300 sq. feet

* + - * 1. The Wall Switch Sensor shall have the ability to provide for either occupancy or vacancy operation based on the configuration settings of the compatible linked wireless lighting controllers
        2. The Wall Switch Sensor shall be able to manually turn loads on and off when used with compatible wireless controllers
        3. The Wall Switch Sensor shall be able to manually dim loads up and down when used with a compatible wireless dimming controller
        4. The Wall Switch Sensor shall transmit minimum every 120 seconds when the PIR is activated
        5. The Wall Switch Sensor shall support Simple Tap and Smart Click programming for configuration of compatible wireless lighting controllers
        6. The Wall Switch Sensor shall support a radio-range confirmation test mode

###### 1) The Wall Switch Sensor shall provide visual indication of the communication signal strength with compatible lighting controllers when in this mode

* + - * 1. The Wall Switch Sensor shall support a walk-test test mode

1) The Wall Switch Sensor shall provide immediate visual indication of PIR activity when operating in this mode

* + - * 1. The Wall Switch Sensor shall support a PIR sensitivity adjustment

1) The Wall Switch Sensor shall provide 3 levels of PIR sensitivity adjustment

###### The Wall Switch Sensor shall have the ability to disable the LED indication of PIR activity

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