

OF-R2.0 Individual Restroom: occupancy sensing

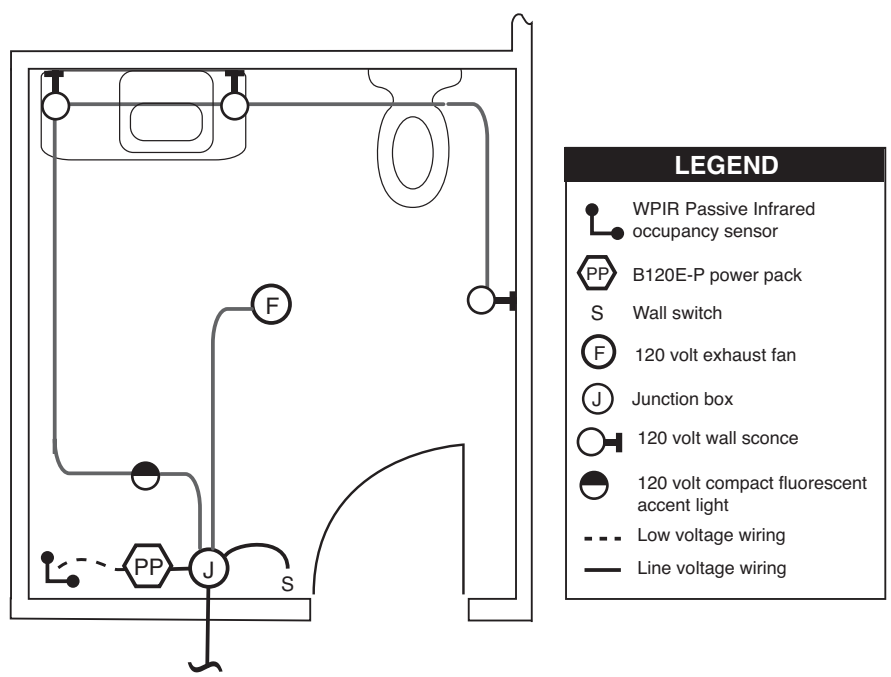
Control Needs	Solution	Application Description
Automatically turn lights and fans ON/OFF based on occupancy	Ceiling-mounted passive infrared occupancy sensor (WPIR)	Space use: Individual or executive restroom Dimensions: 8' x 8' Ceiling height: 10' Windows: None Window blinds: None
Manual override lighting and fan OFF	Wall switch	

Lighting

120 volt wall sconces mounted on each side of the mirror, and on the wall. One recessed 120 volt compact fluorescent luminaire lighting artwork on the wall.

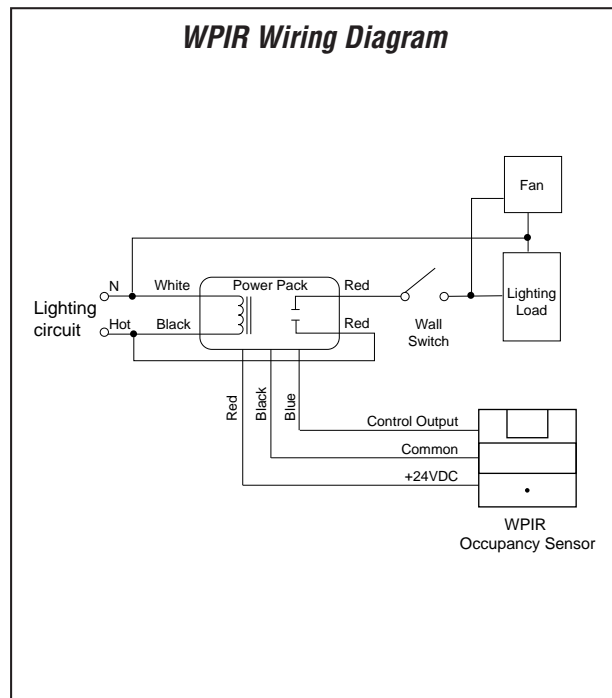
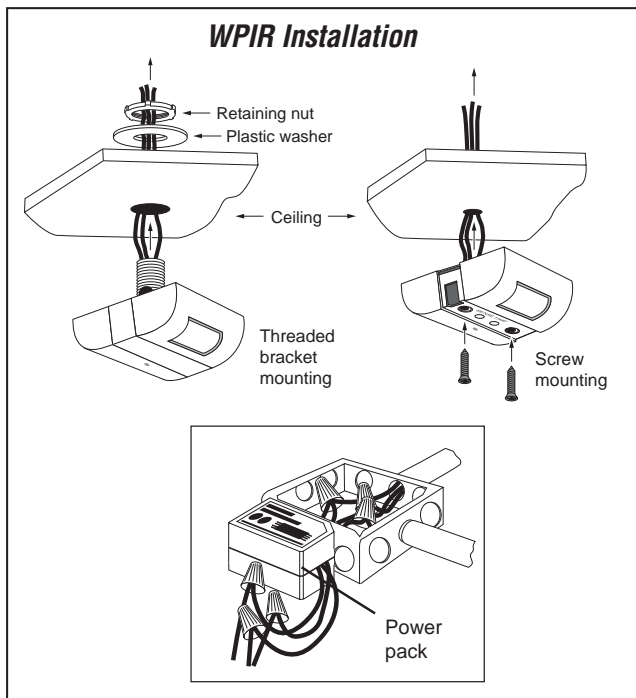
Design Considerations

The WPIR passive infrared sensor is mounted on the ceiling, in the corner of the restroom, turning lights and the fan on when the space is occupied and off when vacant. The sensor is powered by a power pack that is located next to the junction box. In this application, the sensor choice is passive infrared because there are no stall partitions that could block the sensor's view of occupants. The wall switch provides a manual override off of the lighting and the fan.



OF-R2.0 Installation Notes

1. Mount power pack next to junction box above acoustical tile ceiling. This minimizes wiring and simplifies installation. For drywall ceilings, mount power pack above access panel.
2. Orient WPIR occupancy sensor so that it is aimed at opposing corner.
3. The WPIR may be mounted to ceiling using either the supplied threaded bracket mounting accessories, or by screw mounting as shown in the installation drawing.
4. The WPIR is shipped with a factory preset time delay of 30 minutes and sensitivity setting at maximum, which should be used for this application. Refer to installation instructions if adjustments are necessary.
5. Use a minimum of 22 gauge wire for low voltage wiring. See Technical Bulletin TB-124 on Voltage Loss at www.wattstopper.com.
6. Confirm night light/egress lighting requirement with local code officials.



Equipment Schedule

Catalog No.	Qty	Description
WPIR	1	Passive infrared occupancy sensor
B120E-P	1	Power pack, 120 VAC, 60 Hz
AC1 Series	1	Wall switch, Pass & Seymour/legrand, AC1 series, single pole
SP series	1	Wall plate, Pass & Seymour/legrand, single-gang