

DuroZone®

INSTALLATION INSTRUCTIONS

Model OSL - Occupancy Sensor

For use with DuroZone RCD Round Diffuser Damper

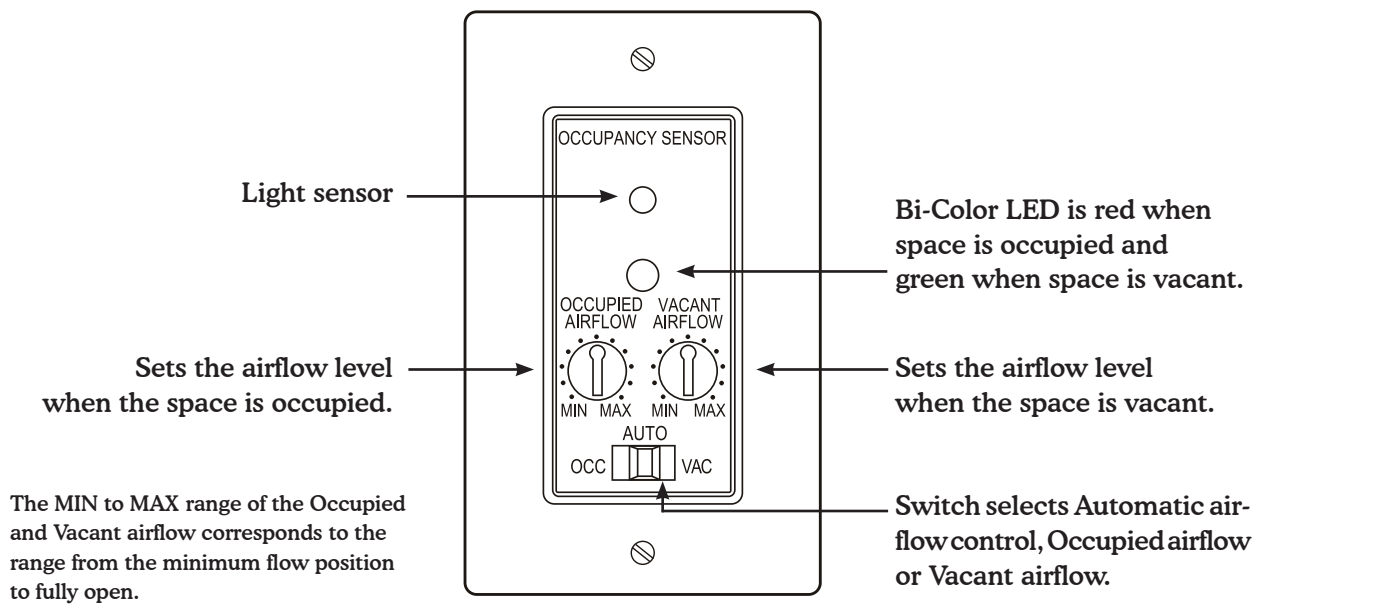


About the OSL Occupancy Sensor

The OSL Occupancy Sensor is used with an RCD Round Diffuser Damper. The OSL detects when lights are turned On or Off and automatically adjusts the airflow level using a RCD Diffuser Damper to the preset Occupied or Vacant airflow setting.

Energy Savings / Improved Comfort

When the space is vacant and the lights turned off, the airflow is automatically reduced to save energy.



Occupied Airflow Setting

The Occupied airflow can be set from 100% airflow to a lower airflow level that provides improved comfort.

Vacant Airflow Setting

The Vacant airflow level can be set lower than the occupied setting to reduce energy consumption when the space is vacant.

Automatic Operating

When the switch is set for automatic operation, the OSL detects when the lights are turned on and automatically adjusts the airflow level to the Occupancy Airflow setting. When the lights are turned off and the space is vacant, the airflow level is lowered to the Vacant Airflow setting to save energy.

Vacant Operation

Set the switch to VAC if the space is not going to be used for a long period.

Occupied Operation

Set the switch to OCC if you want to maintain the occupied airflow setting when the space is vacant. If you turn your lights off and still are working, the OCC setting maintains the airflow at the same comfortable level.

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ALL DUROZONE DAMPERS FEATURE:

- 5 year limited warranty
- Controlled bypass
- Maintenance free operation
- Quick install mounting clips (except Round Dampers)
- 100% factory testing
- Screwless terminals
- Custom dampers and special controls are available on request.

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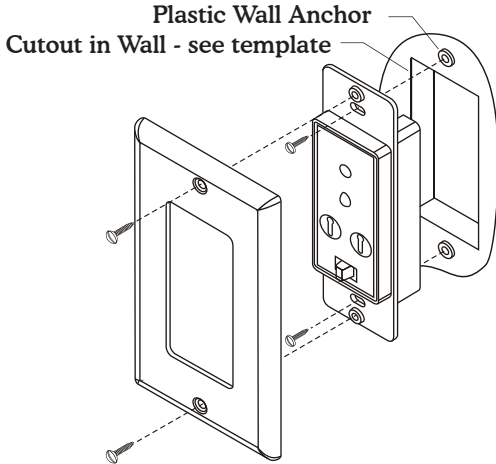
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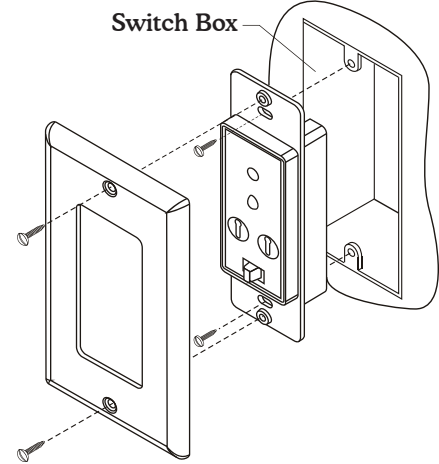


Installation Directly in Wall



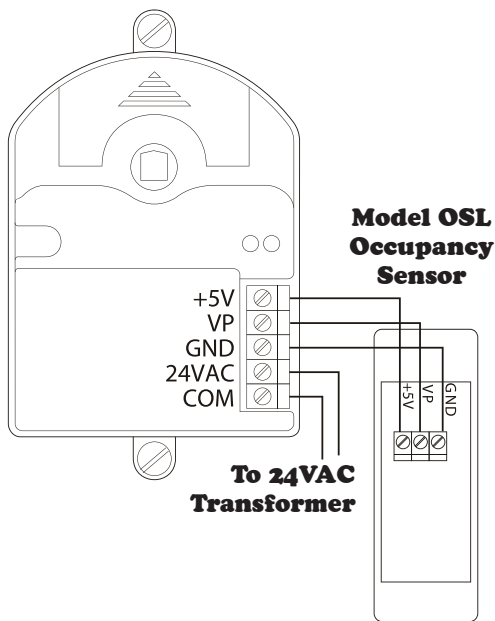
Use this
Template
for installing
OSL directly
into the wall.

Installation in Switch Box



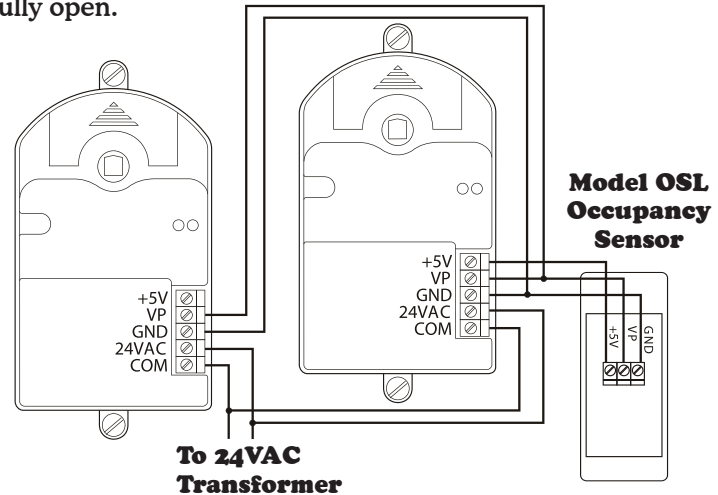
Wiring the Occupancy Sensor to the RCD Diffuser Damper

A RCD damper and OSL Occupancy Sensor are connected using the GND, VP and +5V terminals.



Wiring One Occupancy Sensor to Control Multiple RCD Dampers

An Occupancy Sensor can control multiple RCD dampers using the VP and GND terminals. Up to six RCD dampers can be controlled by one OSL Occupancy Sensor. The MIN to MAX range of the OSL corresponds to the range from the minimum flow position to fully open.



IMPORTANT

Only the +5V terminal on one RCD damper is connected to the Occupancy Sensor.

When using one transformer to power multiple motors, wire all 24 VAC motor terminals to the same transformer terminal and all COM motor terminals to the other transformer terminal. Damper Motors are rated 3.5VA and 130 miliamps during operation; 2.25VA and 90 miliamps when idle.

Install all devices in accordance with applicable electrical and mechanical codes.