

0-10V Dimming and Plug Load Control Multi-level control for Title 24 plug load applications



OSD10 Passive Infrared (PIR) 0-10V Wall Switch Sensor PIR OCCUPANCY SENSING TECHNOLOGY WITH CODE COMPLIANT, ENERGY SAVINGS

Commercial lighting controls are not always one-size fits all. Some rooms require simple ON/OFF controls while others require plug load control, dimming and multi-level code-compliant controls. Finding a sensor to meet these requirements and save on installation costs can be challenging. Fortunately, Leviton offers a simple solution. The OSD10 is a code-compliant dimmer combining PIR technology for 0-10V ON/OFF dimming and plug load control in one install-and-forget solution. The OSD10 requires no calibration and offers maximum efficiency for self-adaptative lighting control:

- Combines 0-10V dimming, PIR technology, ON/OFF control and daylight harvesting in one sensor
- Offers plug load control when paired with an OSP20 Power Pack
- Offers a coverage area of up to 1,000 square feet and 180° of detection
- Self-adaptive technology with no manual adjustment required, saving on installation time for peak performance

PROBLEM

Small conference room requires multi-level lighting controls and must meet energy code requirements for ASHRAE 90.1, Title 24 and IECC.

- Multi-level controls required for dimming and plug load control
- The conference room contains LED fixtures
- Solution must offer pre-determined occupancy lighting levels or user-adjustable levels to activate dimming controls

SOLUTION

The OSD10 PIR 0-10V Dimmer can be used to comply with ASHRAE 90.1, IECC and Title 24 2016, Part 6 occupancy sensing and plug load control requirements.

- Can be used to comply with ASHRAE 90.1, IECC, 2016 Title 24, Part 6 occupancy sensing and plug load control requirements
- Switchable vacancy or occupancy modes for commercial applications such as offices and conference rooms
- Designed for LED fixture control
- User can set the occupancy time out to a pre-determined level or set the dimmer to active to the last used dimming level

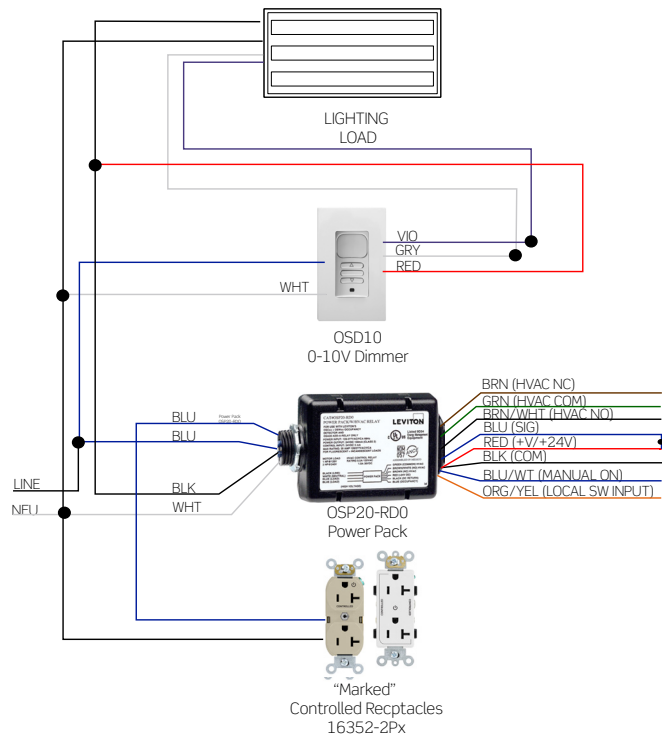


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OSD10—Plug Load Control Application



Meets the Following ASHRAE 90.1 Requirements

- Section 8.4.2 Automatic Receptacle Control
- Section 9.4.1 Lighting Control
- Section 9.4.1.1 Automatic Shutoff Control
- Section 9.4.1.2 Space Control
- Section 9.4.4 Functional Testing




Meets the Following Title 24 Requirements

- Section 130.1(a) Area Controls, Manual-ON, Manual-OFF
- Section 130.1(b) Multi-Level Controls, Dimming
- Section 130.1(c) Shut-Off Requirements, Occupancy Control
- Section 130.5(d) Receptacle Control/Plug Load Control
- Section 140.6(a) Offices \leq 250 ft² Occupancy Sensing Control

Meets the Following IECC 2012 Requirements

- Section C405.2.1.1 Interior Manual Lighting Controls
- Section C405.2.1.2 Light Reduction Controls
- Section C405.2.2.2 Occupancy Sensors
- Section C408.3 Functional Testing

WHAT YOU WILL NEED

PLUG LOAD CONTROL APPLICATION		QTY.
	OSD10 PIR 0-10V Dimmer OSD10-I0* Provides 0-10V Dimming for small offices, lobbies, meeting rooms and more	1
	Super Duty Power Pack OSP20-RD0 Offers high-performance, code-compliant power for controlled receptacles	1
	Marked "Controlled" Receptacles 16352-2Px Meets energy code requirements for identifying receptacles used for plug load controls	1

Note: Replace * with W (White), I (Ivory)

Disclaimer: This document is for informational purposes only. Each project will have its own specific requirements for satisfying Title 24, ASHRAE 90.1 and IECC code compliance based on a variety of factors. Other exceptions or details may apply. Review the code for specific requirements and/or consult with a professional advisor. Leviton Mfg. Co., Inc. is not responsible for any loss resulting from the use of any information found in this document. Solutions are subject to change without notice. For additional assistance, contact your local Leviton representative.

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