

Intermatic iOS-DOV-WH

Intermatic iOS-DOV-WH Occupancy/Vacancy Sensor Instruction Manual

Model: iOS-DOV-WH

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Intermatic iOS-DOV-WH Commercial Grade in-Wall PIR Occupancy/Vacancy Sensor. This device is designed to automatically control lighting based on human presence, enhancing energy efficiency in various indoor environments.

The sensor utilizes Passive Infrared (PIR) technology to detect motion by sensing changes in infrared energy (body heat). When motion is detected, the connected lights can be automatically turned ON (Occupancy mode) or manually turned ON and automatically turned OFF (Vacancy mode).

2. SAFETY INFORMATION

WARNING: Risk of Electric Shock. May cause serious injury or death.

- Turn OFF power at the circuit breaker or fuse box before installation or servicing.
- Installation must be performed by a qualified electrician in accordance with all national and local electrical codes.
- Do not use this device with loads exceeding its specified ratings.
- Ensure all wire connections are secure and properly insulated.
- This device requires a neutral wire for operation. Verify the presence of a neutral wire in the electrical box before proceeding with installation.

3. PRODUCT FEATURES

- **Passive Infrared (PIR) Sensing:** Detects human presence by sensing motion and body heat, ensuring reliable light control.
- **180° Coverage:** Provides wide-angle detection up to 1200 sq. ft. (non-obstructed views) for comprehensive area monitoring.
- **User-Selectable Modes:** Offers flexible operation with selectable Occupancy (automatic ON/OFF) or Vacancy (manual ON/automatic OFF) modes.

- **Zero-Crossing Technology:** Extends the life of the sensor and connected lighting by minimizing electrical stress during switching.
- **Adjustable Ambient Light Sensor:** Prevents lights from turning on when sufficient natural light is present, with adjustable sensitivity (30% - 100%).
- **Adjustable Time Delay:** Allows setting the time lights remain ON after the last detected motion, from 15 seconds to 30 minutes.
- **Adjustable Sensitivity (Range):** Fine-tunes the detection area to prevent unwanted triggers.

4. PACKAGE CONTENTS

- Intermatic iOS-DOV-WH Occupancy/Vacancy Sensor
- Decorator Wall Plate
- Mounting Screws
- Wire Nuts
- Instruction Manual

5. INSTALLATION (SETUP)

5.1 Pre-Installation Checklist

- Ensure power is OFF at the circuit breaker.
- Confirm the electrical box contains a neutral wire (typically white). This sensor requires a neutral connection.
- Verify the existing wiring configuration (single-pole only; not for 3-way or 4-way applications).

5.2 Wiring Instructions

The iOS-DOV-WH sensor is designed for single-pole applications. Follow these steps for wiring:

1. Turn OFF power at the circuit breaker.
2. Remove the existing wall switch and disconnect its wires.
3. Identify the wires in the electrical box:
 - **LINE (Hot):** Typically black, supplying power from the circuit breaker.
 - **LOAD:** Typically black, going to the light fixture.
 - **NEUTRAL:** Typically white, required for the sensor's operation.
 - **GROUND:** Bare copper or green wire.
4. Connect the sensor's wires to the corresponding house wires using wire nuts:
 - Connect the sensor's **Black** wire to the house **LINE (Hot)** wire.
 - Connect the sensor's **Red** wire to the house **LOAD** wire.
 - Connect the sensor's **White** wire to the house **NEUTRAL** wire.
 - Connect the sensor's **Green** wire to the house **GROUND** wire.
5. Carefully push all wires into the electrical box.



Image 1: Rear view of the Intermatic IOS-DOV-WH sensor, illustrating the wiring terminals and the product specification label. The label indicates the model number, voltage, frequency, and load ratings for resistive, incandescent, fluorescent, and motor loads.

5.3 Mounting

1. Mount the sensor into the electrical box using the provided mounting screws. Ensure the "TOP" indicator on the sensor's metal strap is facing upwards.
2. Attach the decorator wall plate over the sensor.
3. Turn ON power at the circuit breaker.



Image 2: Side profile of the Intermatic iOS-DOV-WH sensor, demonstrating its depth when mounted on a standard electrical bracket. This view helps assess the required space within the wall box.



Image 3: Front view of the Intermatic iOS-DOV-WH sensor, fully installed with its white decorator wall plate. The PIR lens and manual override button are visible.

6. OPERATION

The iOS-DOV-WH sensor offers three operational modes: OFF, Occupancy (OCC), and Vacancy (VAC).



Image 4: A close-up view of the mode selection switch located at the bottom of the sensor. The switch allows selection between "OFF", "OCC" (Occupancy), and "VAC" (Vacancy) modes.

- **OFF Mode:** In this mode, the sensor acts as a standard manual switch. Press the button to turn lights ON, and press again to turn them OFF. Motion detection is disabled.
- **Occupancy (OCC) Mode:** Lights turn ON automatically when motion is detected and turn OFF automatically after a set time delay when no motion is detected. This is ideal for high-traffic areas where automatic lighting is desired.
- **Vacancy (VAC) Mode:** Lights must be turned ON manually by pressing the button. They will turn OFF automatically after a set time delay when no motion is detected. This mode is suitable for areas where manual control over initial light activation is preferred, but automatic shut-off is desired for energy savings.

A small LED indicator on the sensor will illuminate briefly when motion is detected. This helps confirm sensor operation.



Image 5: A detailed view of the red LED indicator light on the front of the Intermatic iOS-DOV-WH sensor. This LED illuminates when motion is detected, providing visual feedback of the sensor's activity.

7. ADJUSTMENTS

The sensor features three adjustable dials located behind the lower cover plate. Gently pry open the bottom section of the sensor to access these controls.



Image 6: A close-up showing the three adjustment dials for "TIME", "RANGE", and "LIGHT" on the Intermatic iOS-DOV-WH sensor. These dials are used to fine-tune the sensor's performance.



Image 7: This image illustrates the use of a small screwdriver to adjust the "RANGE" dial on the Intermatic iOS-DOV-WH sensor, providing a visual guide for users making adjustments.

- **TIME (Time Delay):** Adjusts how long the lights remain ON after the last detected motion. Settings typically range from 15 seconds (TEST mode) to 30 minutes.
 - **TEST Mode:** For quick testing of coverage, the lights will turn off after approximately 15 seconds.
- **RANGE (Sensitivity):** Controls the detection sensitivity and coverage area of the PIR sensor. Adjust this to prevent false triggers or to ensure adequate coverage.
- **LIGHT (Ambient Light Sensor):** Determines the ambient light level at which the sensor will allow the lights to turn ON. If the natural light level is above the set threshold, the lights will not turn on, even with motion. This saves energy during daylight hours.

8. MAINTENANCE

- The sensor requires minimal maintenance.
- Periodically clean the sensor lens with a soft, damp cloth to ensure optimal performance. Do not use abrasive cleaners.
- There are no user-serviceable parts inside the sensor. Do not attempt to open or repair the unit.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Lights do not turn ON.	No power to the sensor. Incorrect wiring. Ambient light sensor setting too high. Sensor in OFF mode. Faulty bulb or fixture.	Check circuit breaker. Verify wiring connections (LINE, LOAD, NEUTRAL, GROUND). Adjust the LIGHT dial to a lower sensitivity. Switch to OCC or VAC mode. Test light fixture with a standard switch or known good bulb.
Lights do not turn OFF.	Continuous motion detected. Time delay set too long. Sensor faulty.	Ensure no objects are moving within the detection zone. Adjust the TIME dial to a shorter delay. If problem persists, contact customer support.
Lights turn ON/OFF too frequently (false triggers).	Sensor sensitivity (RANGE) too high. Heat sources or air currents in detection zone.	Adjust the RANGE dial to a lower sensitivity. Relocate sensor if possible, or eliminate heat sources/air currents (e.g., HVAC vents).

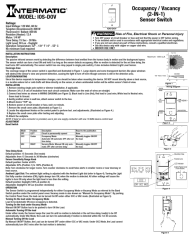

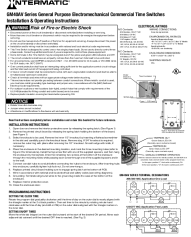



10. SPECIFICATIONS

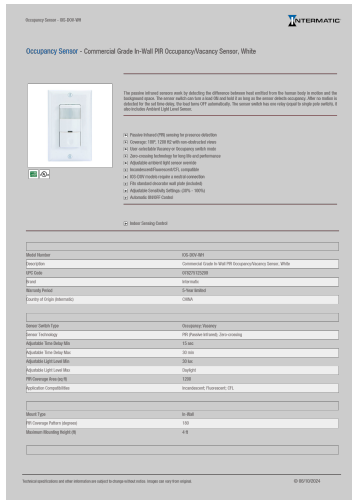
Model Number	iOS-DOV-WH
Voltage	120 Volts AC, 60 Hz
Load Rating	800W Incandescent 800W Fluorescent 800W Resistive 1/4 HP Motor
Coverage	180°, up to 1200 sq. ft.
Time Delay	15 seconds (Test) to 30 minutes
Ambient Light Sensor	Adjustable (30% - 100%)
Operating Temperature	32°F to 131°F (0°C to 55°C)
Dimensions	3 x 2 x 4.8 inches (approximate)
Color	White
Material	Plastic

11. WARRANTY AND SUPPORT

This Intermatic iOS-DOV-WH sensor comes with a **5-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. For warranty claims, technical assistance, or further information, please contact Intermatic Customer Support. Refer to the official Intermatic website or product packaging for the most current contact details. Do not return the product to the place of purchase without prior authorization from Intermatic.

Related Documents - IOS-DOV-WH

	<p>Intermatic IOS-DOV Occupancy / Vacancy (2-IN-1) Sensor Switch</p> <p>Installation, operation, and troubleshooting guide for the Intermatic IOS-DOV 2-in-1 Occupancy and Vacancy Sensor Switch. Features include adjustable time delay, sensitivity, and ambient light settings for automatic lighting control.</p>
	<p>Intermatic Product Catalog: Comprehensive Controls for Lighting, HVAC, and More</p> <p>Explore the Intermatic Product Catalog featuring a wide range of lighting controls, time switches, occupancy sensors, surge protection, and weatherproof covers for residential, commercial, and industrial applications. Discover solutions for energy efficiency and automation.</p>
	<p>Intermatic GM40AV Series Electromechanical Time Switch Installation and Operation Guide</p> <p>This document provides installation and operating instructions for the Intermatic GM40AV Series General Purpose Electromechanical Commercial Time Switches. It includes safety warnings, electrical ratings, wiring diagrams, and programming instructions.</p>
	<p>Intermatic ABRA In-Wall Smart Switch Setup and Operation Guide</p> <p>A comprehensive guide to setting up and operating the Intermatic ABRA In-Wall Smart Switch, covering app integration, device management, scheduling, and compatibility with voice assistants like Google Assistant and Amazon Alexa, as well as Matter.</p>
	<p>Intermatic T173 T170 Mechanical Timer Switch - 24 Hour, 125V, 5HP</p> <p>Detailed specifications for the Intermatic T173 T170 Mechanical Timer Switch. Features 24-hour setting, 125 VAC, 5 HP motor rating, 2NO DPST contacts, and NEMA 1 enclosure. Suitable for commercial, industrial, residential, outdoor, and HVACR applications.</p>
	<p>Intermatic K4000 and LC4500 Series Photo Controls Installation Guide</p> <p>Detailed installation instructions, troubleshooting guide, specifications, and warranty information for Intermatic K4000 and LC4500 series photo controls. Learn how to properly install and use your light-sensing photocells for outdoor lighting.</p>



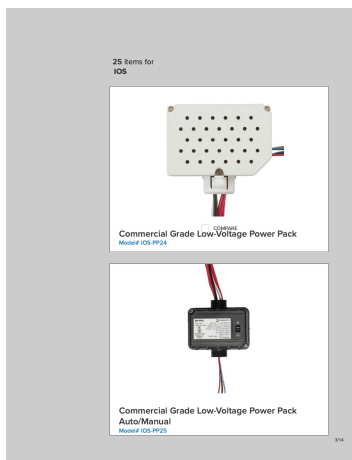
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Intermatic IOS DOV WH In Wall PIR OCC VAC Sensor Specification Sheet WhiteIOS Commercial Grade
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Occupancy Sensor - **IOS-DOV-WH** Occupancy Sensor - Commercial Grade In-Wall
PIR Occupancy/Vacancy Sensor, White Item **IOS-DOV-WH** TECHNICAL DATA
General Model Number Description UPC Code Brand Warranty Period Country of
Origin Intermatic **PRODUCT DESCRIPTION** The passive infrared sensors work by dete...

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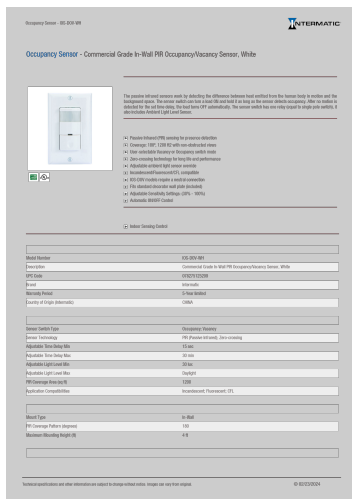


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http://waterheatertimer.org/Intermatic-timers-and-manuals.html#IOS 25 Items for IOS
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PIR Occupancy/Vacancy Sensor, White Model# **IOS-DOV-WH** Commercial Grade
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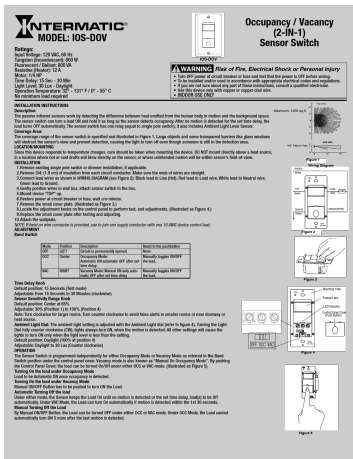
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Occupancy Sensor - **IOS-DOV-WH** Occupancy Sensor - Commercial Grade In-Wall
PIR Occupancy/Vacancy Sensor, White Item **IOS-DOV-WH** TECHNICAL DATA
General Model Number Description UPC Code Brand Warranty Period Country of
Origin Intermatic PRODUCT DESCRIPTION The passive infrared sensors work by dete...

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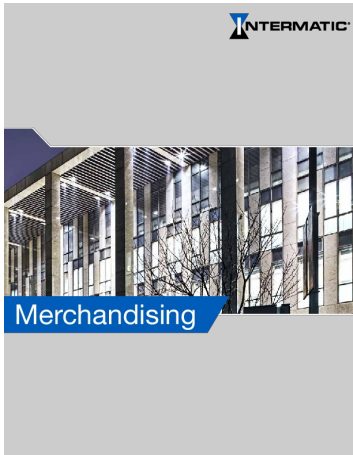
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Installation Instructions Commercial Grade In Wall PIR Occupancy Vacancy Sensor White Crescent

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MODEL: IOS-DOV Ratings: Input Voltage: 120 VAC, 60 Hz Tungsten Incandescent : 800 W Fluorescent / Ballast: 800 VA Resistive Heater : 12 A Motor: 1/4 HP Time Delay: 15 Sec - 30 Min Light Level: 30 Lux - Daylight Operation Temperature: 32 - 131 F / 0 - 55 C No minimum load required Occupancy / Vaca...

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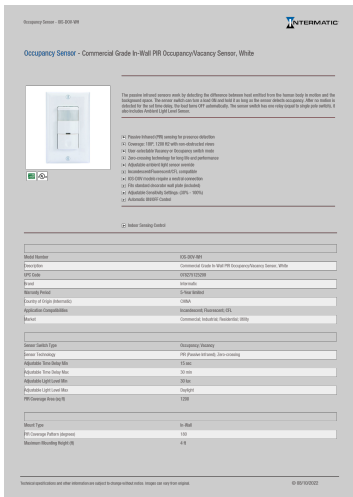


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Merchandising TABLE OF CONTENTS Section 1: Fixture Based Merchandisers pg 3-4 pg 5-6 pg 7-8 pg 9 ... SKU Options ITEM # K4021C K4121C K4221C K4251 ITEM # K4023C K4123C K4223C K4421M ITEM # IOS-DSR-IV **IOS-DOV-WH** IOS-DPBIF-WH IOS-DSIMF-WH ITEM # IOS-DSR-WH **IOS-DOV-WH** IOS-DOV-IV IOS-DSIMF-WH ITEM # ST0...

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Occupancy Sensor - **IOS-DOV-WH** Occupancy Sensor - Commercial Grade In-Wall PIR Occupancy/Vacancy Sensor, White Item **IOS-DOV-WH** TECHNICAL DATA General Model Number Description UPC Code Brand Warranty Period Country of Origin Intermatic Application Compatibilities Market PRODUCT DESCRIPTION The pa...

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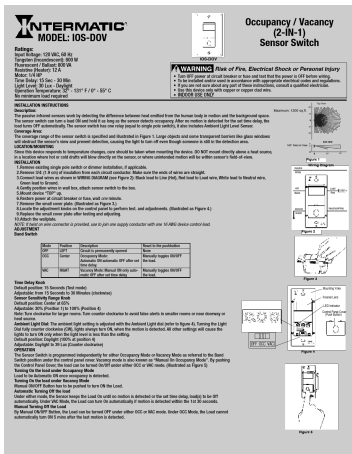
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IOS-DOV-IV **IOS-DOV-WH** IOS-DOV PIR Occupancy / Vacancy Sensor Switch for 120V Features: Zero crossing function increases longevity Automatic ON/OFF Control Push button ON/OFF Time delay OFF ranging from 15 seconds to 30 minutes Passive Infrared technology Adjustable sensitivity settings Stan...

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[Intermatic IOS-DOV Occupancy / Vacancy \(2-IN-1\) Sensor Switch](#)

Installation, operation, and troubleshooting guide for the Intermatic IOS-DOV 2-in-1 Occupancy and Vacancy Sensor Switch. Features include adjustable time delay, sensitivity, and ambient light settings for automatic lighting control.

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PIR Occupancy Vacancy Sensor Switch Intermatic IOS DOV Specs 1502304760

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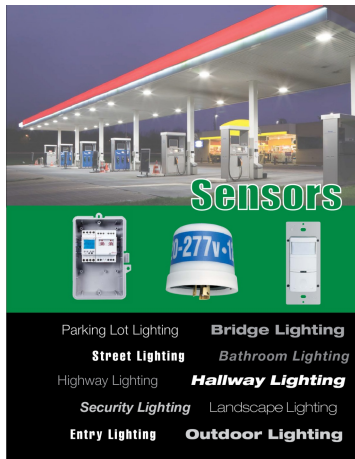
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IOS-DOV-IV **IOS-DOV-WH** IOS-DOV PIR Occupancy / Vacancy Sensor Switch for 120V Features: Zero crossing function increases longevity Automatic ON/OFF Control

Push button ON/OFF Time delay OFF ranging from 15 seconds to 30 minutes

Passive Infrared technology Adjustable sensitivity settings Stan...

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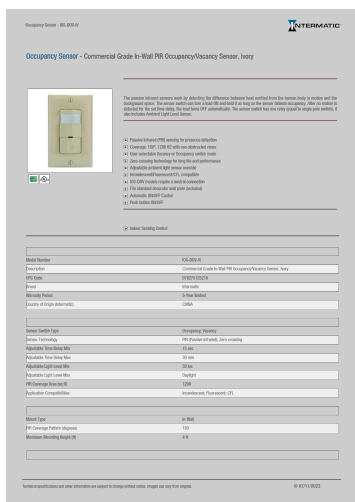
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Night Light Color Requires Neutral C. **IOS-DOV-WH** No IOS-DOV-NL-WH Yes D.

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Occupancy Sensor - IOS-DOV-IV Occupancy Sensor - Commercial Grade In-Wall PIR Occupancy/Vacancy Sensor, Ivory Item IOS-DOV-IV TECHNICAL DATA General

Model Number Description UPC Code Brand Warranty Period Country of Origin

Intermatic PRODUCT DESCRIPTION The passive infrared sensors work by dete...

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Small Conference Rooms Maintenance Rooms **IOS-DOV-WH** IOS-DOV-NL-WH Ivory IV IOS-DDR-WH IOS-DSR-WH IOS-CMP-LV C e i l i n g S e n s o r s...

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