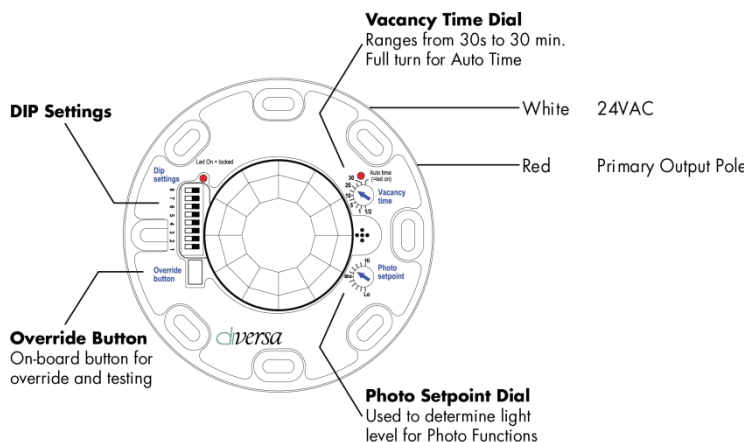
	PART No.	FEATURES	SPECIFICATION
	<p>WORSDD1-N-N WORXDD1-N-N</p>	<ul style="list-style-type: none"> The Diversa occupancy sensors use PIR and ADI-Voice technologies to determine the presence of people and perform the control actions when occupancy (or vacancy) is detected. The WOR Series of sensors are designed to mount recessed on a ceilings giving a 360° coverage pattern. The low voltage edition of this sensor gives the capability of operating and controlling the WP-PP20-D Power Pack and/or diode pulse relays. 	<p>Inputs</p> <ul style="list-style-type: none"> 24 VAC ±25% Class 2 Low Voltage Source 60 Hz Use #18AWG wire <p>Outputs</p> <ul style="list-style-type: none"> <i>Diode Pulse:</i> Each output is capable of driving one Diode Pulse relay. <p>Power consumption</p> <ul style="list-style-type: none"> 9.5 mA Standard <p>Approvals</p> <ul style="list-style-type: none"> FCC <p>Environment</p> <ul style="list-style-type: none"> Indoors, stationary, non-vibrating, non-corrosive atmosphere and non-condensing humidity Ambient Operating Temperature: 14°F to 140°F (-10°C to 60°C) Storage Temperature: -14°F to 140°F (-25°C to 60°C)

Features

- Recessed ceiling mounted occupancy sensor provides 360° coverage using an adjustable swivel head to optimize the sensor area.
- The dual-tech sensor utilizes ADI-Voice Technology, which has advanced digital signal processing for accurate detection of human speech.
- A Self-adapting mode can be set to use both Passive Infrared (PIR) & Accurate Detection Intelligence (ADI) Voice technologies to automatically track occupancy tendencies for continuous maximizing of energy savings.
- Smart Sensing allows for an immediate return to occupied mode in the event of a false off being triggered.
- Can be programmed by on-board DIP switches and dials or an IR Setting Unit for added convenience, especially during commissioning.

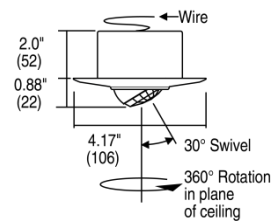
Operation

Low voltage sensors are powered by 24VAC from either the WP-PP20-D Power Pack or a 24VAC transformer. When in operation, the sensor will detect initial motion using PIR; once motion is detected the internal contact will close. The ADI-Voice is then activated to work alongside the PIR to detect occupancy.

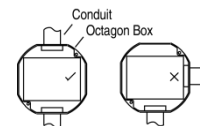


DIMENSIONS & MOUNTING

- Unit attaches to mounting ring with screws or it can be mounted into an octagon box.



- The WOR sensor will fit an octagon box. It is very important that conduits be attached at opposite ends of the box.



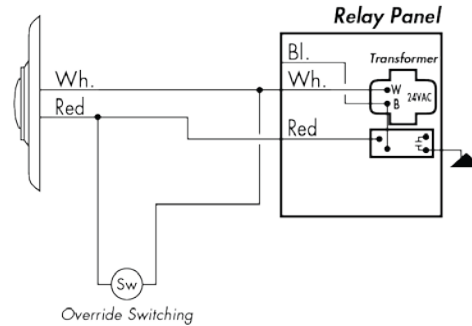
- Use a 2-1/8" or more, deep box. If the box is less, use the spacer ring.

Wiring Instructions

The WOR Series Trickle Current sensors are equipped with #22 AWG leads. Use appropriate sized wire-nuts to connect the wires to the incoming load terminations.

Electrical Connections

Wiring to a Relay Panel



Sensor Settings

Programming - IR / Manual Setting

Programming can be done either with the DIP switches and dials on-board the device or with the WIR-3110 Setting Unit. For more details and additional options please see the "WIR-3110 Manual"

Detection (Dual or PIR Only)

When in operation, the sensor will detect initial motion using Passive Infrared; once motion is detected the ADI-Voice is then is activated to work alongside the PIR to maintain occupancy. The ADI-Voice can be disabled on any dual tech sensors.

Vacancy Sensor

The low voltage sensor can be selected as a vacancy (Off only) sensor. This provides additional energy savings by forcing the user to turn the lights on manually. The low voltage sensor has a built-in override input; allowing for the sensor to be operated as a vacancy sensor. For two pole sensors, it provides multi-level control capability.

Smart Sensing

When vacancy occurs, sensitivity of the ADI-Voice technology transitions from maximum to zero over an adaptively determined time period, based on occupancy tendencies. During this period, ADI-Voice can turn the lights back on immediately, even with no line-of-sight to the sensor, assuring the best combination of user convenience and energy savings.

Energy consumption due to false triggers is minimized by the automatic walk-through mode. This feature turns the lights off after 3 minutes if no occupancy detection occurs after the first 30 seconds after initial turn on.

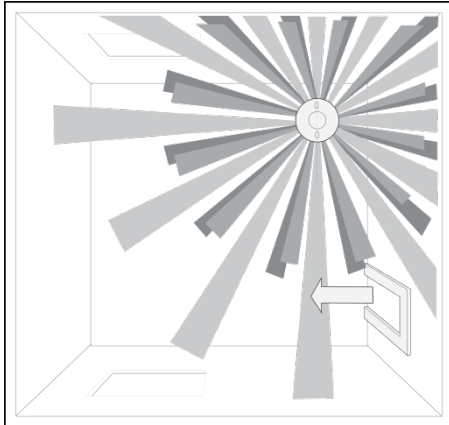
Automatic Timeout

By setting the timeout dial to maximum, the sensor will be put into automatic mode which will adjust the time out automatically to maximize energy savings and occupant comfort.

INSTALLATION

Installing in Smaller Room (Standard Lens)

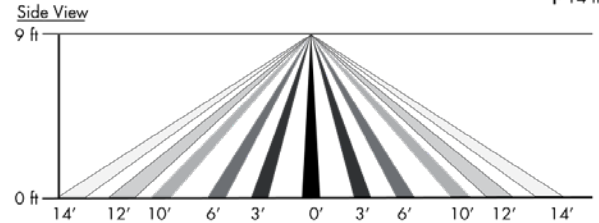
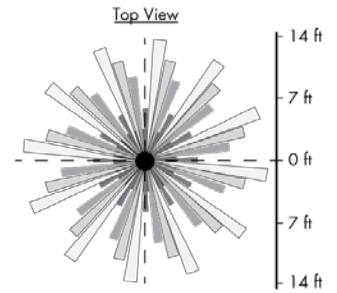
- Locate the sensor near the entrance door wall to prevent it from viewing out into the hallway.
- The lens can rotate, allowing the sensor to be pointed toward the area in front of the entrance door.
- Positioning the sensor in this manner ensures that an occupant moves across the longest detection beam upon entrance, utilizing the sensor's maximum PIR range.



Typical Enclosed Office

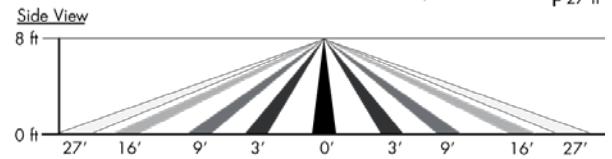
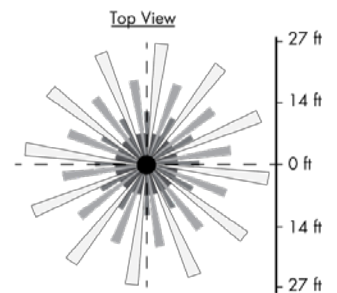
Standard Lens (S)

- Optimal usage is to detect small motions such as hand movements
- Designed for a mounting height of 7-15ft
- ADI-Voice can detect around corners that PIR cannot to maintain occupancy



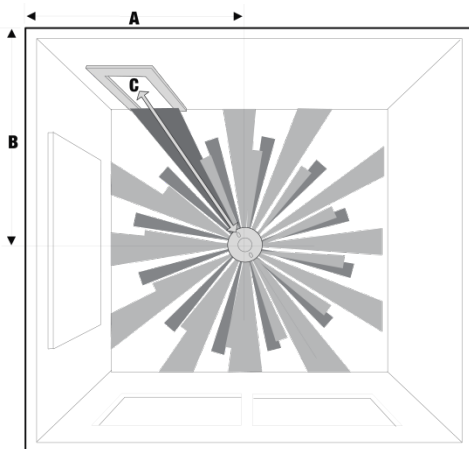
Extended Lens (X)

- Optimal usage is to detect large motions such as walking
- Designed for a mounting height of 7-15ft
- ADI-Voice can detect around corners that PIR cannot to maintain occupancy



Installing in Larger Room (Extended Lens)

- Place the sensor near the center of the room ceiling. Locate it so the approximate distance of 27ft in and over (A & B) or in dead center of room.
- Tilt the lens to aim the detection zone to the bottom of the door. (C)
- Positioning the sensor in this manner ensures that the beam does not reach outside the room without reducing sensitivity.



Typical Classroom

* Application and Performance Specification Information Subject to Change without Notification

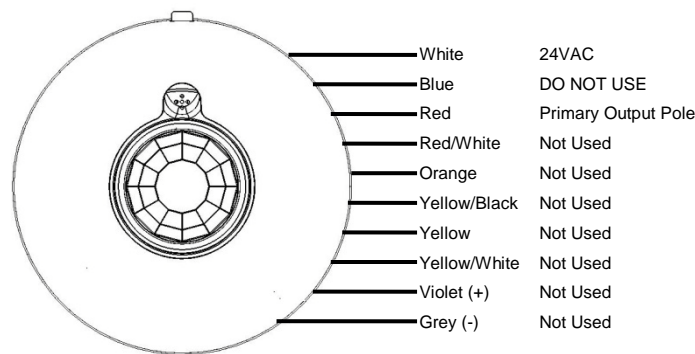
INSTALLATION & WIRING DIRECTIONS

Installation

Mounting of the device requires a 2-1/8" deep or more, octagonal junction box. Install by recessing the device into the octagon box; lining up the mounting holes and securing it using the screws provided. If too shallow, use the spacer ring is provided.

Wiring

The WOR Series Retrofit sensors are equipped with plug-in harness for easy installation. This harness has #20 AWG leads. Use appropriate sized wire-nuts to connect the wires to the incoming load terminations.



DIP Switches

A bank of eight DIP switches and two rotating controls can be used to manually setup and configure the sensor.

WOR*DD1-N-N				
DIP #	Function	On	Off	Default
1	Voice Detection	Disabled	Enabled	OFF
2	Motion Detection Sensitivity	High	Normal	OFF
3	Detection LED	Disabled	Enabled	OFF
4	Auto or Manual ON	Occupancy (Auto-ON)	Vacancy (Manual ON)	ON
5	Not Used	N/A	N/A	OFF
6	Not Used	N/A	N/A	OFF
7	Manual Override Button	Disabled	Enabled	OFF
8	Settings Input	IR Handheld (WIR-3110)	Manual Dips/Dials	ON