PRODUCT DATA



Ultrasonic Ceiling Occupancy Sensor with Isolated Relay



BASIC OPERATION

The OSCxx-RUW is a low voltage occupancy sensor that controls indoor lighting. The sensor fills the room with continuous reflective high frequency Ultrasonic (U/S) sound waves. Any movement within the sensor's range causes a shift in the original emitted frequency. The sensor's receiver identifies any change in frequency as motion and either turns the lights on or maintains lights on.

Additionally, the sensor is designed with an isolated relay contact; which enables the sensor to interface with other systems (example: BAS, HVAC or any dry-contact capable device or system).

APPLICATIONS

- Cafeterias
- Restrooms
 Hallways
- Storage rooms
 Executive offices

Classrooms

• Workspaces • Offices with cubicles

FEATURES

- Isolated relay: supports HVAC or other Class 2 low voltage signals
- Supports both 24VAC/VDC power supplies
- Wide coverage: units from 500 to 2000 sq. ft. available

- Self adjusting: an internal microprocessor automatically analyzes, evaluates and adjusts time delay and U/S settings for maximum energy savings
- Custom white color matched for most common daylight harvesting architecture
- Uses OSPxx Series Power Pack: uses Class 2, 24 volt wiring, three wire connection (low voltage). Multiple sensors can control single or multiple power packs.
- Fast, simple installation: easy ceiling mount, twist-lock sensor attachment for 360° rotation and flexibility
- Small motion sensitivity: the ultrasonic technology provides excellent small motion sensitivity
- Timer setting feature: automatic—30sec-30min. Test mode—4 sec with auto exit programming
- Non-volatile memory: learned and adjusted settings saved in protected memory are not lost during power outages
- Walk-through: provides increased energy savings by decreasing the time delay to 2.5min when someone momentarily walks through the monitored space
- (U/S) components: one or two U/S transducers and one or two narrow bandwidth receivers each 16mm in diameter. Frequency—Crystal controlled to ±.005%.
- Device: rugged, high-impact, injection molded plastic, white. Color coded leads 7" (17.78 cm)

Condition	Example	Adaptive Reaction
Timer Left In Test Mode - The sensor remains in an 4 sec. test mode.	An installer accidentally leaves the sensor in the 4 sec. timer test mode and the lights may go off or on every 4 sec.	The sensor automatically resets the timer to 10 min after 15 min of test mode.
False-On - The sensor incorrectly turns the lights on.	The sensor detects movement in the corridor or hall way and the room lights turn on.	After an initial movement is sensed, if another movement is not sensed within the timer setting then the delayed off time setting is automatically reduced.
False-Off - The sensor incorrectly turns the lights off.	The sensor does not detect movement because an occupant sits virtually motionless at a desk and the lights turn off.	If motion is sensed within a short period after the lights go off, then the current delayed off-time setting is increased.

HOW THE OSCxx-R AUTOMATICALLY ADAPTS

Leviton Manufacturing Co., Inc. Global Headquarters

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SWITCH		SWITCH FUNCTIONS	SWITCH SETTINGS
	BANK A	OFF	ON
A1	N/A		
A2	N/A		
AЗ	Manual Mode	Auto Adapting Enabled	Auto Adapting Disabled
A4	Walk-Thru Disable	Walk-Thru Enabled	Walk-Thru Disabled
	BANK B		
B1	Override to On	Auto Mode	Lights forced On
B2	Override to Off	Auto Mode	Lights forced Off
B3	Test Mode	OFF'ON'OFF	Enter/Exit Test Mode
B4	LED Disable	LEDs Enabled	LEDs Disabled

*Bold items are factory defaults

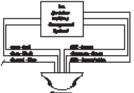
SPECIFICATIONS

ELECTRICAL		
Power Requirements	15-28 VAC/VDC from OSPxx Power Pack or other Class 2 power supplies	
Isolated Relay	1A @ 30VAC/VDC	
Power Consumption	DC: OSC05: 25mA, OSC10: 30mA, OSC20: 30mA AC: OSC05: 45mA, OSC10: 50mA, OSC20: 50mA	
Output	24 VDC active high logic control signal with short circuit protection	
CONTROLS		
Ultrasonic Frequency	OSC05/OSC10: 40kHz OSC20: 32kHz	
Ultrasonic Sensitivity	0-100%; green knob (factory setting: 50%)	
Time Delay	30sec-30min; black knob (factory setting: 10min)	
INDICATORS		
Green LED	U/S motion technology	
ENVIRONMENTAL		
Operating Temperature Range	32-104°F (0-40°C)	
Relative Humidity	0-95% non-condensing, for indoor use only	
OTHER		
Mouting Height	8-12 feet	
Dimensions	4.2" W x 1.57" D	
Listings	CUL/US Certified, can be used to comply with ASHRAE 90.1 and 2016 Title 24, Part 6 occupancy sensing requirements	
Warranty	Limited Five-Year Warranty	

ORDERING INFORMATION

CAT NO.	DESCRIPTION	
OSC05-RUW	Ultrasonic Ceiling Sensor, 500 sq. feet of coverage	
OSC10-RUW	Ultrasonic Ceiling Sensor, 1000 sq. feet of coverage	
OSC20-RUW	Ultrasonic Ceiling Sensor, 2000 sq feet of coverage	

Made in USA with globally sourced components and NAFTA compliant models available.



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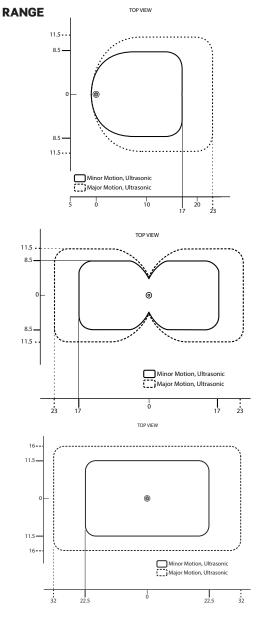
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Visit our Website at: www.leviton.com/sensors

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PHYSICAL WIRING

