

Ultrasonic Ceiling Occupancy Sensor



BASIC OPERATION

The OSCxx-U is a low voltage occupancy sensor that controls indoor lighting. The sensor fills the room with continuous reflective high frequency (ultrasonic) 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.

APPLICATIONS

- Cafeterias Filing rooms
- Classrooms Hallways
- Open areas • Restrooms
- Storage rooms • Open warehouses • Workspaces
 - Executive offices
- Offices with cubicles

FEATURES

- Self Adjusting: An internal microprocessor automatically analyzes, evaluates and adjusts time delay and U/S settings for maximum energy savings
- Custom off-white color matched for shaded ceilings
- Fast, Simple Installation: Easy ceiling mount, three wire connection (low voltage) and twist-lock sensor attachment for 360° rotation and flexibility.
- Maximum Reliability, Low Cost: digital circuitry uses a minimum of components.

HOW THE OSCxx-U AUTOMATICALLY ADAPTS

Condition Example Self-Adaptive Reaction Timer Left In Test Mode - The An installer accidentally leaves The sensor automatically resets the timer to 10 min after 15 min of test mode. sensor remains in an 6 sec. the sensor in the 6 sec. timer test mode and the lights may go test mode. off or on every 6 sec False-On - The sensor The sensor detects movement After an initial movement is sensed. incorrectly turns the lights on. in the corridor or hall way and if another mov ement is not sensed within the timer setting then the delayed off time setting is automatically reduced. the room lights turn on. False-Off - The sensor If motion is sensed within a short period after The sensor does not detect incorrectly turns the lights off. movement because an occupant sits virtually the lights go off, then the current delayed off-time setting is increased. motionless at a desk and the lights turn off.

- Small Motion Sensitivity: The ultrasonic technology provides excellent small motion sensitivity.
- Non-Volatile Memory: Learned and adjusted settings saved in protected memory are not lost during power outages.
- Timer Setting Feature: Automatic 30sec 30min. Test mode - 6sec with auto exit programming
- Walk-Through: Provides increased energy savings by decreasing the time delay to 2.5min when someone momentarily walks through the monitored space.
- Wide Coverage: Units from 500 to 2000 sq. ft. available.
- Ambient Light Recognition: A Light Sensor prevents lights from turning on when the room is adequately lit by natural light.
- Power base (OPB 15) available for line voltage applications
- Ultrasonic (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, off -white. Color coded leads 6" (16.24 cm).

Leviton Mfg. Co., Inc. Lighting & Energy Solutions

201 N. Service Rd. Melville, NY 11747-3138 Tech Line: 1-800-824-3005 Fax: 1-800-832-9538 www.leviton.com/les © 2011 Leviton Manufacturing Co., Inc. All rights reserved. Subject to change without notice.

PRODUCT DATA

SWITCH		SWITCH FUNCTIONS	SWITCH SETTINGS
	BANK A	OFF	ON
Aı	N/A		
A2	N/A		
A3	Manual Mode	Auto Adapting Enabled	Auto Adapting Disabled
A4	Walk-Thru Disable	Walk-Thru Enabled	Walk-Thru Disabled
	BANK B		
Bı	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

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ELECTRICAL		
Power Requirements	24 VDC, from OSPxx Power Pack or OPB15 Power Base	
Power Consumption	OSC05: 25mA, OSC10: 35mA, OSC20: 30mA	
Output	24 VDC active high logic control signal with short circuit protection	
CONTROLS		
Ultrasonic Sensitivity	0-100%; green knob (factory setting: 50%)	
Light Sensor	20 to 3,000 Lux; factory set at 100% (*grey wire required)	
Time Delay	30sec-30min; black knob (factory setting: 10min)	
INDICATORS		
Green LED	U/S motion technology	
ENVIRONMENTAL		
Operating Temperature Range	32°F to 104°F (o°C to 40°C)	
Relative Humidity	o% to 95% non-condensing, for indoor use only	
OTHER		
Mouting Height	8-12 feet	
Listings	CUL/US Certified, meets ASHRAE Standard 90.1 and CEC Title 24 requirements	
Warranty	ty Limited Five-Year Warranty	

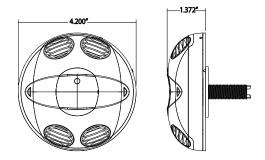
ORDERING INFORMATION

OSCXX-UOW

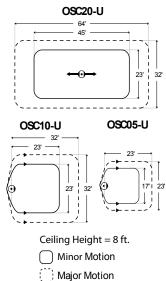
CAT NO.	DESCRIPTION
OSCo5-UoW	Ultrasonic Ceiling Sensor, 500 sq. feet of coverage
OSC10-U0W	Ultrasonic Ceiling Sensor, 1000 sq. feet of coverage
OSC20-UoW	Ultrasonic Ceiling Sensor, 2000 sq feet of coverage

NAFTA compliant and Made in USA models available

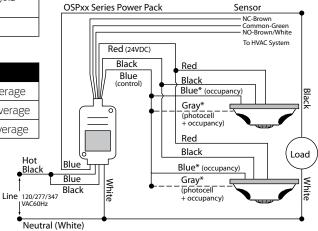
DIMENSIONS



RANGE



PHYSICAL WIRING



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