

# Sector Occupancy Sensors

## Passive infrared and multi-technology occupancy sensors for the Sector Intelligent Lighting Control System



- Passive Infrared Technology (PIR)
- Ultrasonic Motion Detection (OSC20-MSW)
- Simple, Fast Installation
- Ballasts, occupancy sensors, and control stations connect on a single bus, topology-free, and polarity-free, two conductors
- Compatible with Class 1 and Class 2 Wiring
- Self-Adjusting
- Digital Technology, Complete Reliability
- Ceiling Mount
- Non-Volatile Memory
- Remote or Manual Configuration Capability
- Adjustable Ambient Light Control

### DESCRIPTION

The Leviton Sector PIR Occupancy Sensor (OSC04-ISW) and the Multi-Technology Occupancy Sensor (OSC20-MSW) are low-voltage occupancy sensors that work in conjunction with a Sector Bus Controller (SBP00-00M) to activate light switching in response to room occupancy within a Sector Intelligent Lighting Control System. These sensors are part of a system that turns lights on and keeps them on while movement is detected within the sensor's range, and conversely turns lights off when motion is no longer detected for a specified period of time.

The Sector Occupancy sensors use a small semiconductor heat detector located directly behind a multizone Fresnel optical lens. The overall range of the sensor can be configured and managed remotely using the SectorNET graphical user interface (GUI). The sensor responds to heat emitted by the human body within the range of detection.

Leviton's Multi-Technology Occupancy Sensor (OSC20-MSW) features both infrared and ultrasonic sensing capabilities to automatically

control lighting. This sensor takes advantage of the latest microprocessor-based technology to continually adjust and optimize its performance to changing conditions. Ultrasonic technology detects motion (including small motion) by noting changes in reflected sound waves. Infrared technology detects movement of heat-emitting bodies. The combination of technologies yields a sensor with maximum sensitivity that is not prone to false triggers from air conditioning or other small vibrations.

### APPLICATIONS

The Leviton Sector Occupancy Sensors are ideal for use in office buildings, schools, medical offices, restaurants, and government facilities and any other location that could benefit from the cost savings and energy efficiency of a controlled lighting environment.

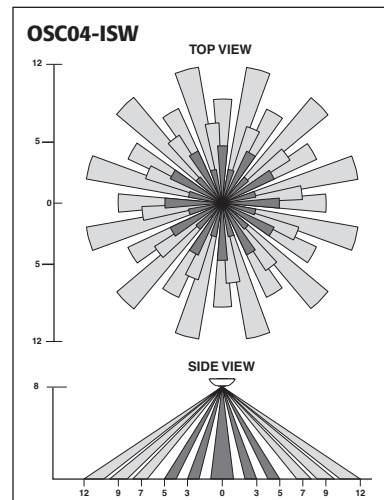
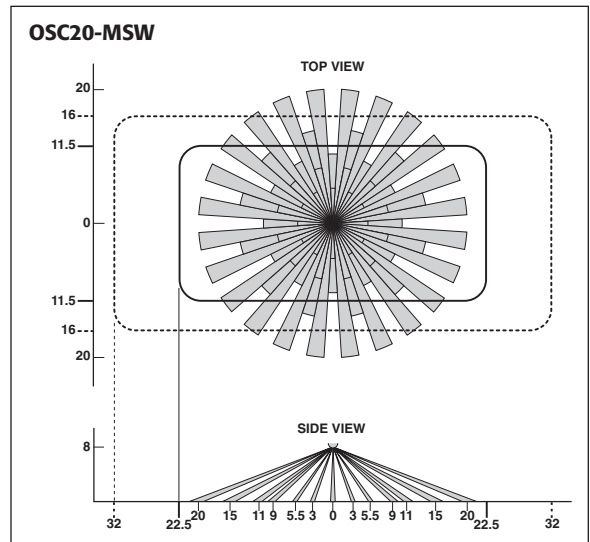
The Sector family of products provides a scalable solution that allows you to install a maximum of 253 Bus Controllers, controlling a maximum of 64 devices each, for complete system flexibility and maximum coverage in any application.

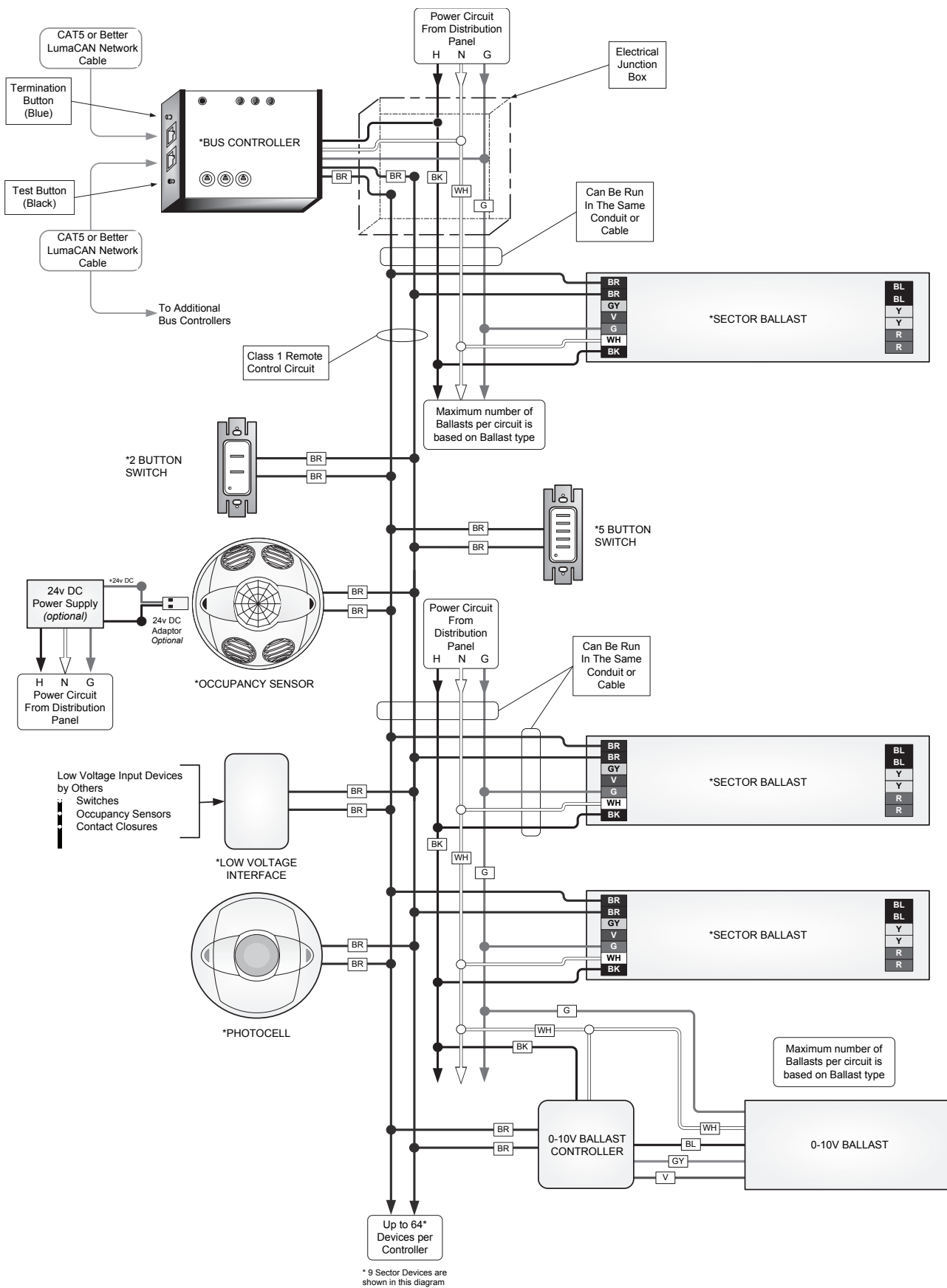
## PRODUCT DATA

### FEATURES

- **Reduces Energy Costs:** using the Sector Occupancy Sensors in a Leviton Sector Lighting Control System can reduce energy costs from 34% to 60%
- **Smart Settings:** continuously analyze and adjust sensitivity, timer operation and long-term performance for a hassle-free lighting environment
- **Self-adjusting:** continuously analyzing, learning and adapting to patterns of occupancy in a facility
- **Fast, Simple Installation:** easy ceiling mount, 2-wire connection (low voltage) and twist-lock sensor attachment
- **Topology-Free:** ballasts, occupancy sensors, and control stations connect on a single bus, topology-free, and polarity-free, two conductors
- **Custom or Smart Delay-Off:** manual (and self-adjusting) delay-off settings from 30 seconds to 30 minutes
- **Unobtrusive:** small, tasteful unit blends in with any décor
- **Maximum Reliability, Minimum Cost:** all digital circuitry uses a minimum of components
- **Flexible Installation:** compatible with Class 1 and Class 2 wiring specifications, and Wiremold surface raceways for mounting to hard ceilings
- **Non-Volatile Memory:** learned and adjusted settings saved in protected memory are not lost during power outages
- **Walk-Through Feature:** increased energy savings by not leaving the lights ON for an extended period after only momentary occupancy
- **Ambient Light Control:** includes Manual-ON and Always-ON

### FIELD-OF-VIEWS





## PRODUCT DATA



### SPECIFICATIONS

#### Electrical

- Input Voltage: 34-42VDC, 277VAC tolerant
- Wires (2): Brown wires; polarity-free

#### Environmental

- Operating temperature range: 32°F - 104°F (0°C - 40°C)
- Relative humidity: Up to 95%, non-condensing
- Usage: Indoors only

#### Physical

- Size: 4.5" dia., 1.5" H (114mm, 38mm)
- Weight: 5 oz. (142 g)
- Housing construction: High-impact, injection molded plastic
- Color: White
- Leads: color coded, 6" (16.24cm)

#### Listings

- IEC61000-4-2

#### Warranty

- Limited 5-year warranty

### ORDERING INFORMATION

CAT. NO.	DESCRIPTION
OSCo4-ISW	Sector PIR Occupancy Sensor, White, 450SF
OSC20-MSW	Sector Multi-Technology Occupancy Sensor, White, 2000SF

The following components are also part of the Leviton Sector Intelligent Lighting Control System:

- Sector Ballasts (T8, 17W/25W/32W): SD1F8-17M, SD1F8-25M, SD1F8-32M, SD1J8-17M, SD1J8-25M, SD1J8-32M, SD2F8-17M, SD2F8-25M, SD2F8-32M, SD2J8-17M, SD2J8-25M, SD2J8-32M
- Sector Bus Controller/Power Supply: SBP00-00M
- Sector Photocell: ODCoP-0SW
- Sector 5-Button Digital Switch: SDS00-15W
- Sector Handheld Remote: SHH00-000
- SectorNET Software and USB-to-LumaCan Adapter: SLM00-000, SIF00-000, SIFPD-000
- Sector Ballast Controller: SBCSo-000, SBCSo-001
- Sector 4-Module Enclosure (to hold a maximum of 4 Bus Controllers (SBP00-000)): SEN04-000

### LEVITON SPECIFICATION SUBMITTAL

JOB NAME:	CATALOG NUMBERS:
JOB NUMBER:	

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