



# Ceiling and Wall Mount Occupancy Sensors

## OMNI™ Ultrasonic Ceiling Sensor

featuring IntelliDAPT®

### KEY FEATURES

- IntelliDAPT self-adaptive technology—no manual adjustment required
- All-digital ultrasonic (US) technology
- Non-volatile memory for sensor settings
- 500–2,000 square-foot coverage area (depending on model)
- Optional relay and photocell control
- Optional Quick-to-Install (QTI) connector
- UL and cUL listed
- California Title 24 compliant
- Five-year warranty



OMNIUS500

### OVERVIEW

The OMNIUS uses ultrasonic (US) technology to turn lighting on and off based on occupancy. Designed specifically for both areas with obstructions (e.g. columns, cubicles, stalls, and filing cabinets) and areas with long periods of minor-motion activity (e.g. typing), this sensor features Hubbell Building Automation’s patented IntelliDAPT technology, which makes all the sensor adjustments automatically. Throughout the product’s lifespan, smart software analyzes the controlled area and makes digital adjustments to sensitivity and timer settings. Occupancy sensors with IntelliDAPT provide a maintenance-free install-and-forget operation.

### FEATURES and BENEFITS

#### Features

IntelliDAPT technology

All-digital ultrasonic (US) sensor

Non-volatile memory for sensor settings

Optional relay and photocell control

Optional Quick-to-Install (QTI) connector

#### Benefits

- Sensor automatically determines the ideal setting for an area
- Excellent false trip immunity (for improved accuracy)
- No manual sensitivity and timer adjustments required
- Provides a maintenance-free install-and-forget operation.
- Superior US minor-motion detection
- Learned and adjusted settings will not be lost during power outages
- Easy integration with Building Automation Systems
- Increases energy savings by preventing lights from turning on when there is sufficient natural light
- Dramatically reduces installation costs by removing the time-consuming process of manually wiring a sensor to a power pack
- Easy to install; fast and efficient; no cutting, stripping, or wire nuts required

### APPLICATIONS

- Hallways
- Restrooms

## SPECIFICATIONS

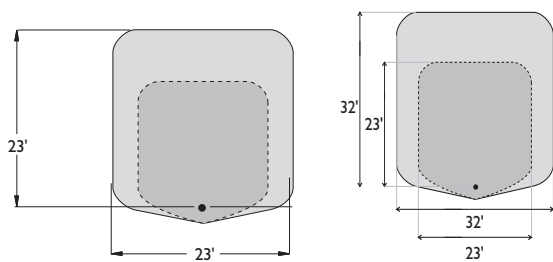
IntelliDAPT	<ul style="list-style-type: none"> <li>• Auto reset from test setting</li> <li>• Self-adjusting timer</li> <li>• Self-adjusting ultrasonic thresholds</li> <li>• Automatic false-on/false-off corrections</li> </ul>
LED lamp	<ul style="list-style-type: none"> <li>• Green—ultrasonic motion</li> </ul>
Timer timeout	<ul style="list-style-type: none"> <li>• Automatic mode: 8–30 min. (self-adjusts based on occupancy)</li> <li>• Test mode: 8 seconds (for an easy check at installation)</li> </ul>
Ultrasonic (US) output	<ul style="list-style-type: none"> <li>• OMNIUS500: 40kHz output</li> <li>• OMNIUS1000 and OMNIUS2000: 32kHz output</li> </ul>
RP option	<ul style="list-style-type: none"> <li>• Relay and photocell included</li> <li>• Relay: N/O + N/C contacts; SPDT; 500 mA rated @ 24VDC; three-wire isolated relay</li> <li>• Photocell: adjustable natural-light override ranges from 0 to 100 foot-candles (0–1,000 lux)</li> </ul>
Coverage	<ul style="list-style-type: none"> <li>• 500–2,000 square feet (depending on model)</li> </ul>
Power requirements	<ul style="list-style-type: none"> <li>• 24 VDC, 33 mA (uses UVPP and MP-Series power pack—not included)</li> </ul>
Output	<ul style="list-style-type: none"> <li>• 24 VDC active high-logic control signal with short circuit protection and optional dry contact (see: RP Option)</li> </ul>
Operating environment	<ul style="list-style-type: none"> <li>• Indoor use only</li> <li>• Operating temperature: 32°–104°F (0°–40°C)</li> <li>• Relative humidity (non-condensing): 0%–95%</li> </ul>
Construction	<ul style="list-style-type: none"> <li>• Casing—rugged, high-impact, injection-molded plastic KJB ABS Cicolac (UL-945VA) flame class rating, UV inhibitors</li> <li>• Color-coded leads are 6” long</li> </ul>
Size and weight	<ul style="list-style-type: none"> <li>• Size: 4.5” diameter, 1.5” height (114 mm diameter, 38mm height)</li> <li>• Weight: 5.0 oz (142g)</li> </ul>
Color	<ul style="list-style-type: none"> <li>• Off-white</li> </ul>
Mounting	<ul style="list-style-type: none"> <li>• Mounting base provided</li> <li>• Recommended MAX mounting height: 12ft.</li> </ul>
Certifications	<ul style="list-style-type: none"> <li>• UL and cUL listed</li> </ul>
Warranty	<ul style="list-style-type: none"> <li>• Five years</li> </ul>

## HOW TO ORDER

Catalog Number	Description	Color	Coverage
OMNIUS500	Ultrasonic Ceiling Mount Sensor with IntelliDAPT	Off-white	500 sq. ft.
OMNIUS500RP	Ultrasonic Ceiling Mount Sensor with IntelliDAPT (Relay and Photocell)	Off-white	500 sq. ft.
OMNIUS1000	Ultrasonic Ceiling Mount Sensor with IntelliDAPT	Off-white	1,000 sq. ft.
OMNIUS1000RP	Ultrasonic Ceiling Mount Sensor with IntelliDAPT (Relay and Photocell)	Off-white	1,000 sq. ft.
OMNIUS2000	Ultrasonic Ceiling Mount Sensor with IntelliDAPT	Off-white	2000 sq. ft.
OMNIUS2000RP	Ultrasonic Ceiling Mount Sensor with IntelliDAPT (Relay and Photocell)	Off-white	2000 sq. ft.

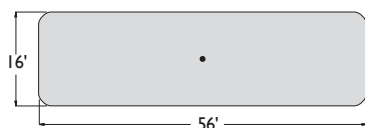
\*Add QTI to end of catalog number for optional Quick-to-Install connector.

## RANGE DIAGRAMS

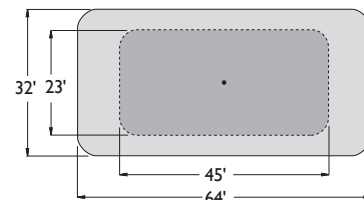


OMNIUS500 Range Diagram

US-1000 Range Diagram



US-2000 Range Diagram - hallway application



OMNIUS2000 Range Diagram



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