Ø



DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

OMNI® LOW VOLTAGE ULTRASONIC AND PIR CEILING SENSOR

CEILING MOUNT OCCUPANCY SENSORS

FEATURES

- IntelliDAPT® self-adaptive technology no manual adjustment required
- · All-digital dual technology ultrasonic (US) and passive infrared (PIR) sensor
- Non-volatile memory for sensor settings
- · Low voltage device: 24VDC
- 500-2,000 square-foot coverage area (depending on model)
- · Optional relay and photocell control
- 5 year warranty













RELATED PRODUCTS

- 8 Occupancy Sensor Accessories
- **8** Universal Voltage Power Packs
- Heavy Duty Universal Voltage Power Packs
- 8 MPSHD Pack

8 MP347A Power Pack

SPECIFICATIONS

CONSTRUCTION

- 5.0 oz. (142g)
- Off-white
- Ø4.0" x1.5" H (Ø 114.3mm x 38.1mm H)
- Casing- rugged, high-impact, injectionmolded plastic KJB ABS
- Cycolac (UL-945VA) flame class rating, UV inhibitors
- Color-coded leads are 6" long (152.4 mm)
- Dual-element pyrometer and 12-element cylindrical segmented Fresnel lens, integral filter excludes excess PIR energy from sunlight
- Red LED Lamp infrared motion
- · Green LED Lamp ultrasonic detection

MOUNTING

- Mounting base provided
- Recommended mounting height: 8ft (2.44m) with a max mounting height of 12ft (3.66m)

ELECTRICAL

- 24VDC, 33mA (uses UVPP and MP- Series power pack- not included)
- 24VDC active high-logic control signal with short circuit protection and optional dry contact (see RP options)
- OMNIDT500: 40kHz output
- OMNIDT1000 and OMNIDT2000: 32kHz

OPERATION

- · IntelliDAPT Technology
 - · Auto reset from test setting
 - · Self-adjusting timer
 - Self-adjusting passive infrared thresholds
 - · Automatic false-on/false-off corrections
- Coverage
 - Coverage: 500 2,000 square feet (152.4 609.6 square meters)
- · Timer Settings
 - Automatic mode: 8–30 min. (self-adjusts based on occupancy)
 - Test mode: 8 seconds (for an easy check at installation)
- · RP Option
 - Relay and photocell included
 - Relay: N/O + N/C contacts; SPDT; 500 mA rated @ 24VDC; three-wire isolated relay
 - Photocell: adjustable natural-light override ranges from 0 to 100 footcandles (0 to 1,000 lux)

OPERATING ENVIRONMENT

- · Indoor use only
- Operating temperature: 32° to 104°F (0° to 40°C)
- Relative humidity (non-condensing): 0% to 95%

CERTIFICATIONS

- · UL and cUL listed
- California Title 24 compliant
- This product qualifies as both (i) a "domestic construction material" per FAR §52.225-9 Buy American-Construction Materials and a "(COTS) item" per FAR §2.101 and (ii) a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 5/27/2020.
 See Buy American Solutions.
- This product qualifies as "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 5/27/2020.
 See Buy American Solutions.

WARRANTY

- 5 year limited
- See <u>HCS Standard Warranty</u> for additional information





DATE:	LOCATION:
TYPE:	PROJECT:

CATALOG #:

OMNI° LOW VOLTAGE ULTRASONIC AND PIR CEILING SENSOR

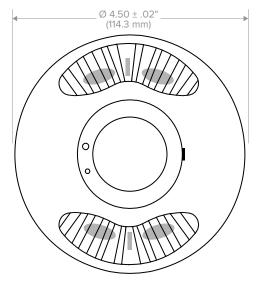
CEILING MOUNT OCCUPANCY SENSORS

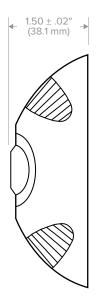
ORDERING GUIDE

Example: OMNIDT2000RP-U										
OMNI		DT						_		
Model Technology		Coverage		Relay/Photocell Option			BAA/TAA*			
OMNI	Ceiling sensor	DT	Dual Technology	500 1000 2000	500 sq ft 1,000 sq ft 2,000 sq ft	RP Blank	Relay and Photocel No Option		Blank U T	Standard Product BAA TAA

*Buy American Solutions						
BAA FAR §52.225-9	TAA FAR §52.225-11					
	OMNIDT500					
OMNIDT2000RP	OMNIDT2000					
	OMNIDT2000RP					

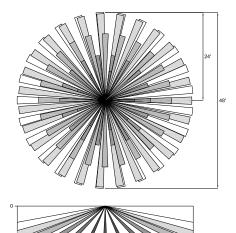
DIMENSIONS





ADDITIONAL INFORMATION

Coverage Patterns



Sensor Lens Coverage and Detection Patterns When Mounted at 8ft with Low Mount Lens





LOCATION: DATE: PROJECT:

TYPE:

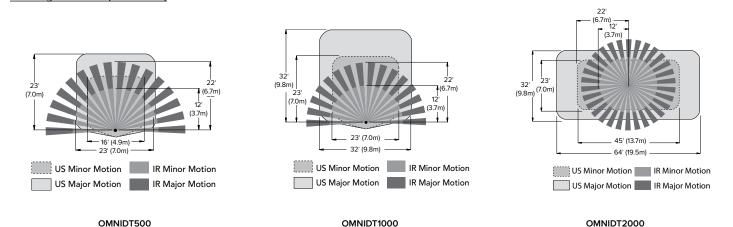
CATALOG #:

OMNI° LOW VOLTAGE ULTRASONIC AND PIR CEILING SENSOR

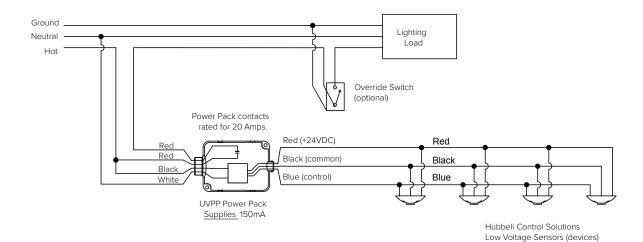
CEILING MOUNT OCCUPANCY SENSORS

ADDITIONAL INFORMATION (CONTINUED)

Coverage Patterns (Continued)



Wiring Diagrams



NOTE:

1. DO NOT attempt to power more than 4 devices, be it sensors or slave packs, from a single power pack.

1 Circuit with up to 4 Sensors and UVPP



Requires 33mA each



DATE: LOCATION:

TYPE: PROJECT:

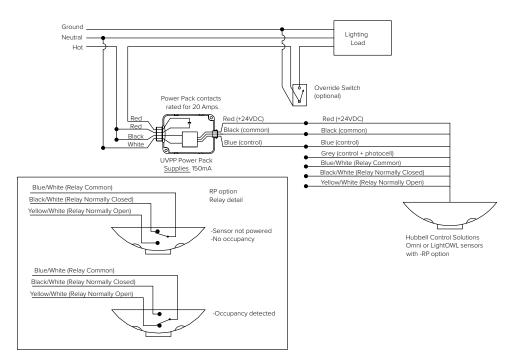
CATALOG #:

OMNI° LOW VOLTAGE ULTRASONIC AND PIR CEILING SENSOR

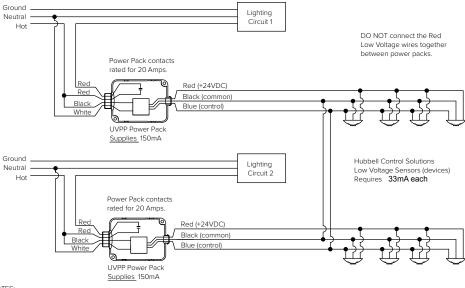
CEILING MOUNT OCCUPANCY SENSORS

ADDITIONAL INFORMATION (CONTINUED)

Wiring Diagrams (Continued)



1 Circuit with RP Option Wiring



NOTES:

- 1. Lighting load turns on when at least one sensor detects motion
- DO NOT attempt to power more than 4 devices, be it sensors or slave packs, from a single power pack
- 3. No more than 4 power packs should be connected in this way

2 Circuits with 5 to 8 Sensors

All product and company names, logos and product identifiers are trademarks or registered trademarks of Hubbell Lighting, Inc. or their respective owners. Use of them does not necessarily imply any affiliation with or endorsement by such respective owners.

