Lighting Controls

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

Title 24   c UL us LISTED   0-10V DIMMING   NETWORK

SPECIFICATIONS

CONSTRUCTION
- 5.0 oz. (142g)
- Off-white
- Ø4.0" x1.5" H (Ø 114.3mm x 38.1mm H)
- Casing- rugged, high-impact, injection-molded 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)

ELECTRICAL (CONTINUED)
- 24VDC active high-logic control signal with short circuit protection and optional dry contact (see RP options)
- OMNIDT500: 40kHz output
- 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)

OPERATION (CONTINUED)
- 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 foot-candles (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

WARRANTY
- 5 year limited

currentlighting.com

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Lighting Controls

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ORDERING GUIDE

Example: OMNIDT2000
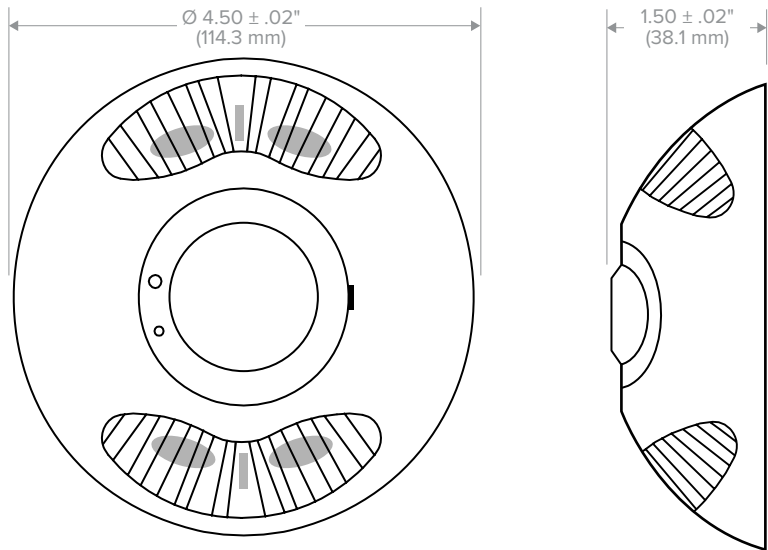
CATALOG #

OMNI		DT				
Model		**Technology**		**Coverage**	**Relay/Photocell Option**	**BAA/TAA***
OMNI	Ceiling sensor	**DT**	Dual Technology	**500** 500 sq ft **2000** 2,000 sq ft	**RP** Relay and Photocell **(Blank)** No Option	**Blank** Standard Product **U** BAA **T** TAA

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

DIMENSIONS

Ø 4.50 ± .02"
(114.3 mm)

1.50 ± .02"
(38.1 mm)
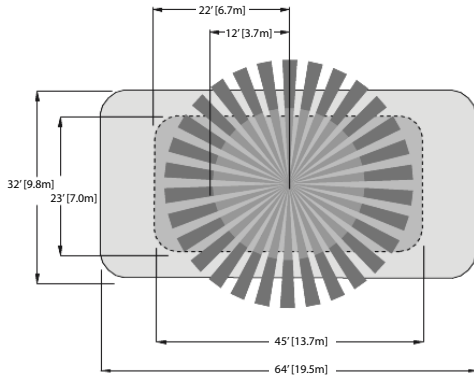
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Lighting Controls

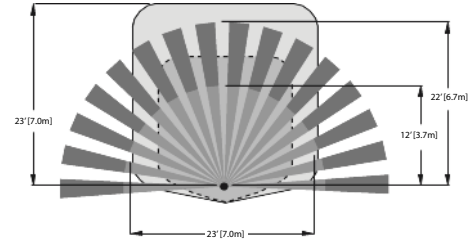## OMNI® LOW VOLTAGE ULTRASONIC AND PIR CEILING SENSOR
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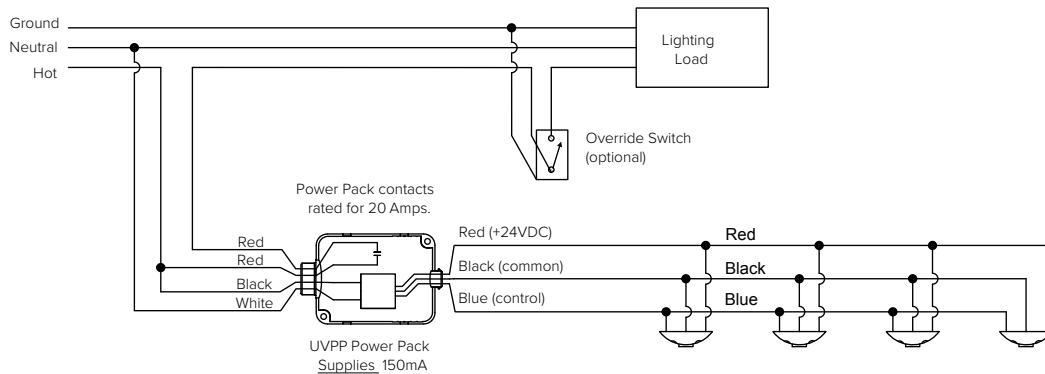### ADDITIONAL INFORMATION

Coverage Patterns

OMNIDT2000

OMNIDT500

Wiring Diagrams

NOTE:

1. DO NOT attempt to power more than 4 devices, be it sensors or slave packs, from a single power pack.
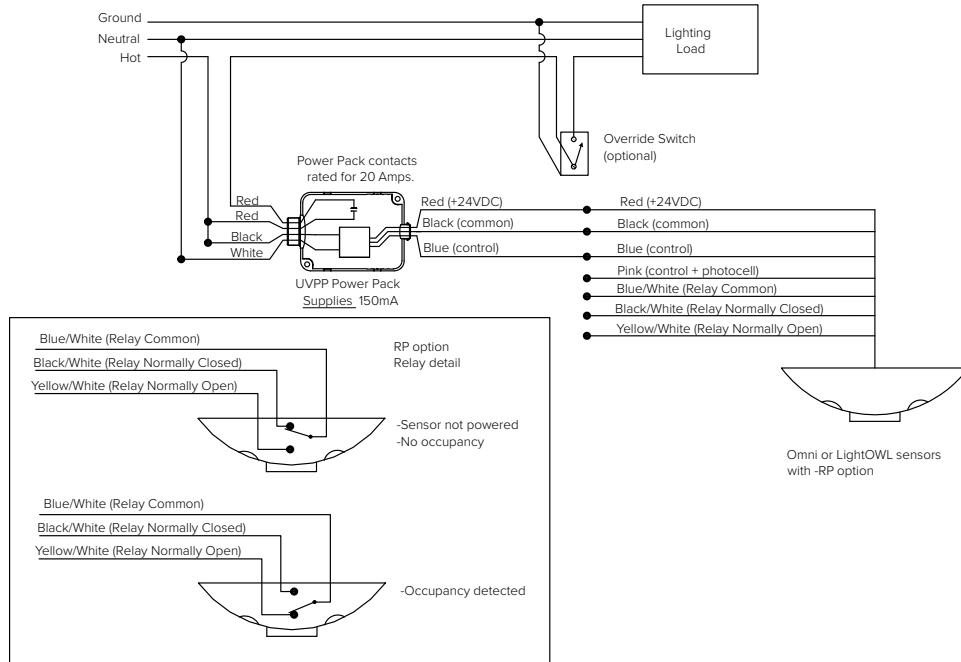
1 Circuit with up to 4 Sensors and UVPP

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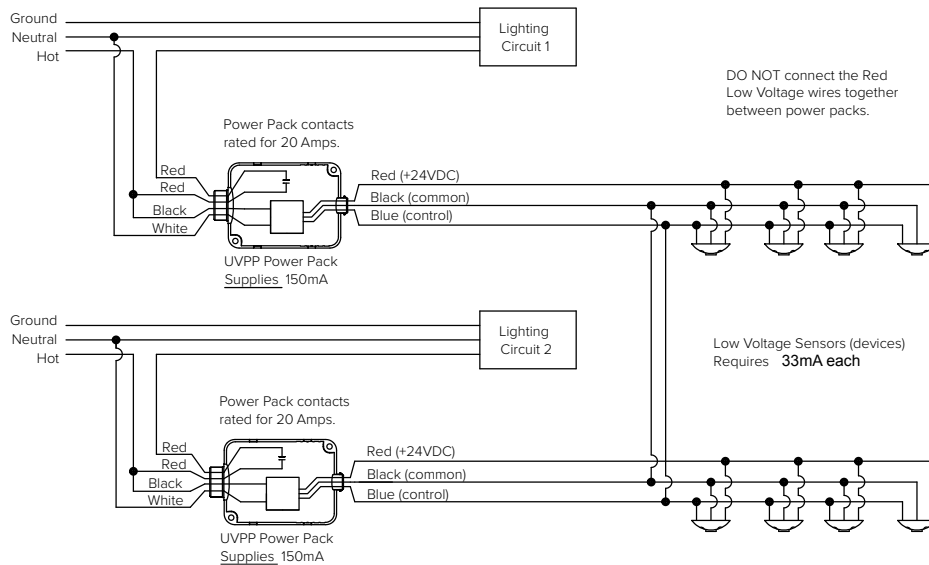
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ADDITIONAL INFORMATION (CONTINUED)

Pink wire replaces previous gray wire. Units with a gray instead of pink wire should be wired as the pink wire shown in the diagram.

1 Circuit with RP Option Wiring

DO NOT connect the Red Low Voltage wires together between power packs.

Low Voltage Sensors (devices) Requires **33mA each**

NOTES:

1. Lighting load turns on when at least one sensor detects motion
2. 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