Lighting Controls

OMNI® LOW VOLTAGE PIR CEILING SENSOR

CEILING MOUNT OCCUPANCY SENSORS

FEATURES

- IntelliDAPT® self-adaptive technology—no manual adjustment required
- All-digital passive infrared (PIR) sensor
- Non-volatile memory for sensor settings
- 450 - 1,500 square-foot coverage area (depending on model)
- Optional relay and photocell control
- UL and cUL listed
- California Title 24 compliant
- Five-year limited warranty

SPECIFICATIONS

CONSTRUCTION

- 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)
- 5.0 oz (142g)
- Off-white
- Red - Passive infrared detection
- Dual-element pyrometer and 12-element cylindrical rugged lens

MOUNTING

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

ELECTRICAL

- 24VDC, 20mA (uses UVPP and MP- Series power pack- not included)

ELECTRICAL (CONTINUED)

- 24 VDC active high-logic control signal with short circuit protection and optional dry contact (see RP options)

OPERATIONS

- IntelliDAPT
    - Auto reset from test setting
    - Self-adjusting timer
    - Self-adjusting passive infrared thresholds
    - Automatic false-ON/false-OFFcorrections
- 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

OPERATIONS (CONTINUED)

- Photocell: adjustable natural-light override ranges from 0 to 100 foot-candles (0–1,000 lux)
- Coverage
    - 450–1,500 square feet

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

WARRANTY

- 5 year warranty

ORDERING GUIDE

Example: OMNIIR

CATALOG #

OMNI	IR		
Series	**Technology**	**Coverage**	**Relay/Photocell Option**
OMNI	**IR** Passive Infrared	**L** Long Range IR, 1,500 sq. ft. **(Blank)** 450 sq. ft.	**RP** Relay & Photocell **(Blank)** No Option

currentlighting.com

1303A_OMNIIR_spec_R01

Lighting Controls

OMNI® LOW VOLTAGE PIR CEILING SENSOR
CEILING MOUNT OCCUPANCY SENSORS

DIMENSIONS

4.50±.02"

1.50±.02"

6"
WIRE
LEADS
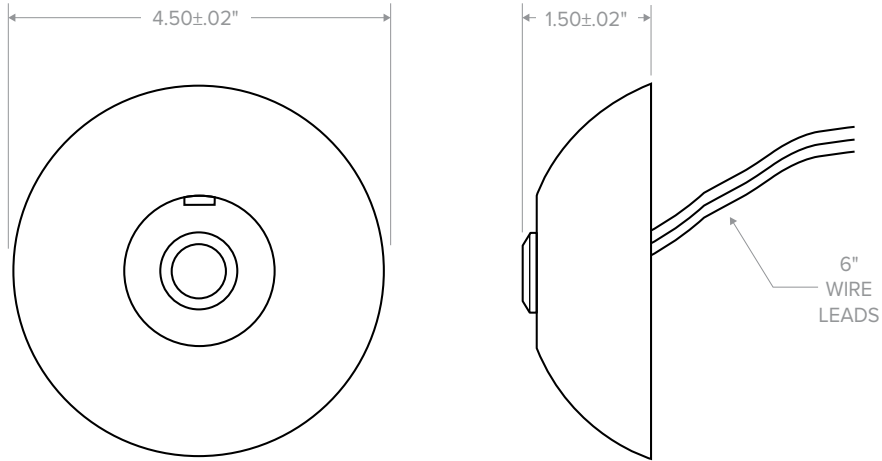
ADDITIONAL INFORMATION

COVERAGE PATTERN

OMNI® IR Range
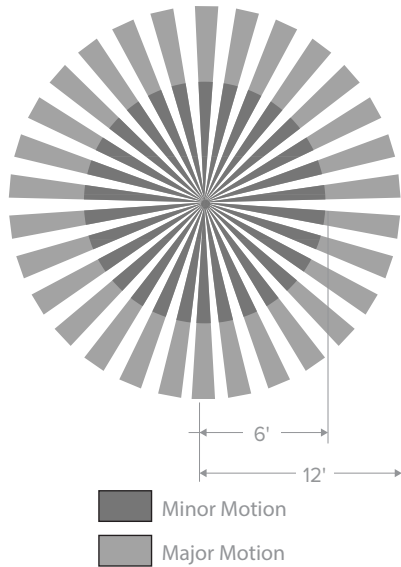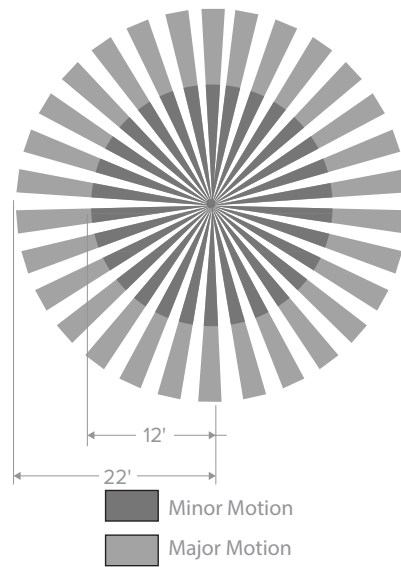
6'

12'

■ Minor Motion
■ Major Motion

OMNI® IRL Range

12'

22'

■ Minor Motion
■ Major Motion

OMNI® LOW VOLTAGE PIR CEILING SENSOR
CEILING MOUNT OCCUPANCY SENSORS

ADDITIONAL INFORMATION CONTINUED

WIRING DIAGRAMS

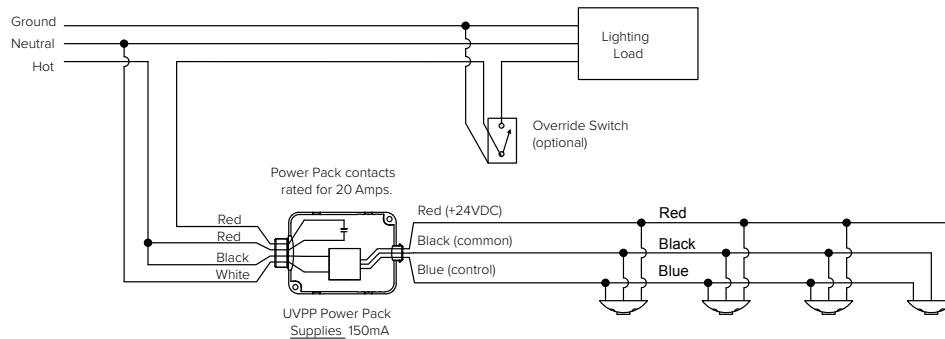**1 circuit with up to 4 sensors and UVPP**

Ground
Neutral
Hot

Lighting Load

Override Switch (optional)

Power Pack contacts rated for 20 Amps.

Red
Red
Black
White

Red (+24VDC)   Red
Black (common)   Black
Blue (control)   Blue

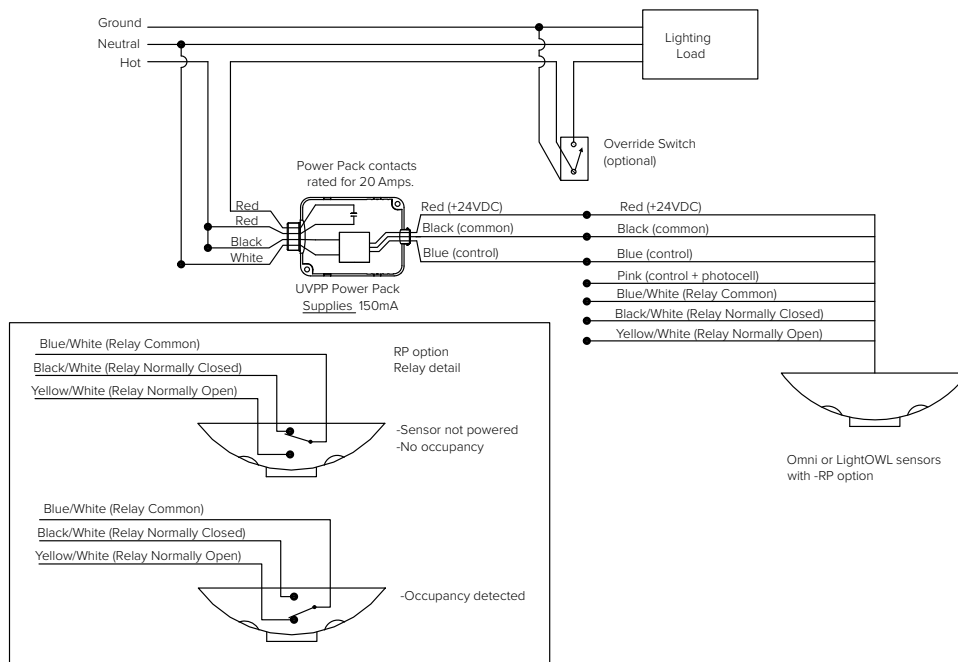UVPP Power Pack
Supplies 150mA

Low Voltage Sensors (devices)
Requires 33mA each

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 RP option wiring

Ground
Neutral
Hot

Lighting Load

Override Switch (optional)

Power Pack contacts rated for 20 Amps.

Red
Red
Black
White

Red (+24VDC)   Red (+24VDC)
Black (common)   Black (common)
Blue (control)   Blue (control)
                    Pink (control + photocell)
                    Blue/White (Relay Common)
                    Black/White (Relay Normally Closed)
                    Yellow/White (Relay Normally Open)

UVPP Power Pack
Supplies 150mA

Blue/White (Relay Common)
Black/White (Relay Normally Closed)
Yellow/White (Relay Normally Open)

RP option
Relay detail

-Sensor not powered
-No occupancy

Blue/White (Relay Common)
Black/White (Relay Normally Closed)
Yellow/White (Relay Normally Open)

-Occupancy detected

Omni or LightOWL sensors with -RP option

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.

1303A_OMNIIR_spec_R01
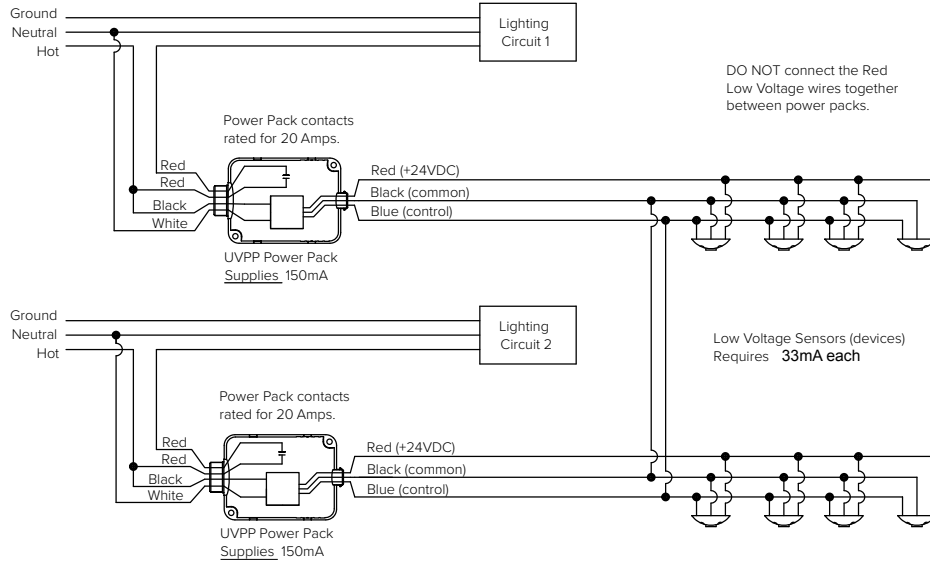
OMNI® LOW VOLTAGE PIR CEILING SENSOR
CEILING MOUNT OCCUPANCY SENSORS

ADDITIONAL INFORMATION CONTINUED

WIRING DIAGRAMS

2 circuits with 5 to 8 sensors

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

1303A_OMNIIR_spec_R01