

# LIGHTOWL® PIR AND ACOUSTIC WALL MOUNT SENSOR

CEILING AND WALL MOUNT OCCUPANCY SENSORS

## FEATURES

- IntelliDAPT® self-adaptive technology—no manual adjustment required
- All-digital dual technology passive infrared (PIR) and acoustic sensor
- Non-volatile memory for sensor settings
- 1,600 square-foot coverage area
- Optional relay and photocell control
- Low voltage device: 24VDC
- 5 year warranty



## RELATED PRODUCTS

- Ø [Occupancy Sensor Accessories](#)
- Ø [Universal Voltage Power Packs](#)
- Ø [Heavy Duty Universal Voltage Power Packs](#)
- Ø [MPSHD Pack](#)
- Ø [MP347A Power Pack](#)

## SPECIFICATIONS

### CONSTRUCTION

- Casing - Rugged, high-impact, injection-molded plastic KJB ABS Cyclic (UL-945VA) flam class rating, UV inhibitors
- Color-coded leads are 6" long (152.4mm)
- 5.0 oz. (142g)
- Off-white
- Red-Infrared motion
- Green-acoustic detection
- Dual-element pyrometer and 12-element cylindrical rugged lens

### MOUNTING

- Mounting base provided
- Recommended MAX mounting height: 12ft. (3.66m)

### ELECTRICAL

- 24VDC, 33 mA (uses UVPP and MP-Series power pack—not included)
- 24VDC active high-logic control signal with short circuit protection and optional dry contact output

### OPERATIONS

- IntelliDAPT
  - Auto reset from test setting
  - Self-adjusting timer
  - Self-adjusting passive infrared and acoustic thresholds
  - Automatic false-ON/false-OFF corrections certifications
- Coverage
  - 1,600 square feet coverage PR Option
- Time Settings
  - Automatic mode: 8–30 minutes (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 @ 24 VDC; three-wire isolated relay
  - Photocell: adjustable natural-light override ranges from 0 to 100 foot-candles (0–1,000 lux)

### OPERATING ENVIRONMENT

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

### CERTIFICATIONS

- Listed UL and cUL

### WARRANTY

- 5 year warranty
- See [HLI Standard Warranty](#) for additional information

## ORDERING GUIDE

Example: LODIA

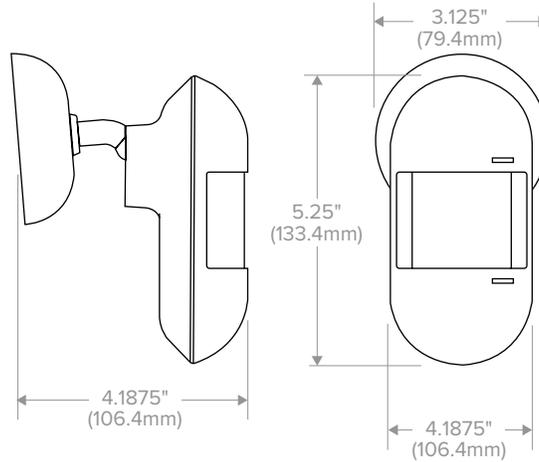
CATALOG #

|        |            |                               |  |
|--------|------------|-------------------------------|--|
| LO     | DIA        | -                             |  |
| Series | Technology |                               | Relay/Photocell Option                         |
| LO     | DIA        | Passive Infrared and Acoustic | RP Relay Photocell<br>Blank No Relay Photocell |

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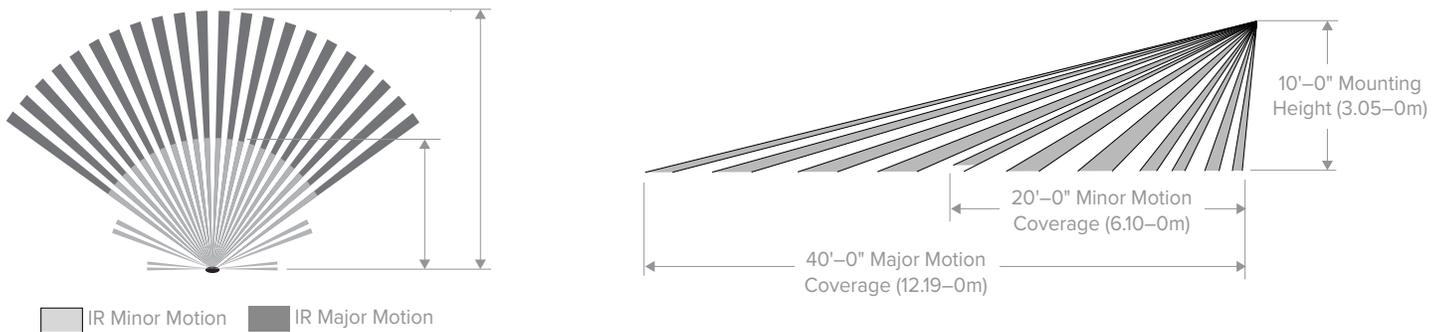
## DIMENSIONS



ACOUSTIC LOCATED BEHIND COVER

## ADDITIONAL INFORMATION

### Coverage Patterns



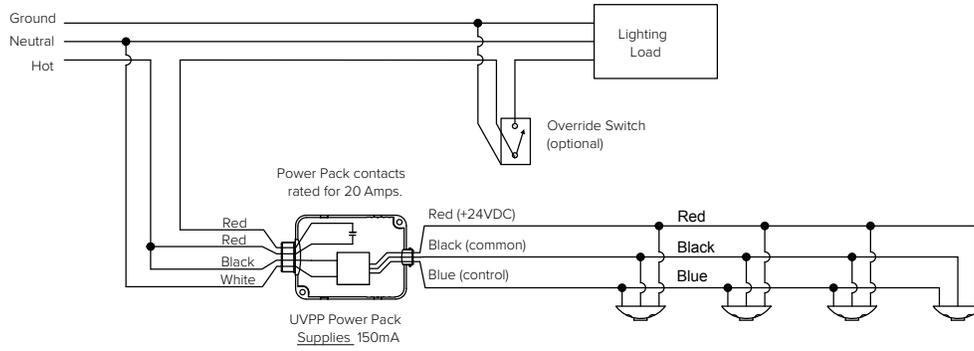
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## ADDITIONAL INFORMATION (CONTINUED)

### Wiring Diagrams

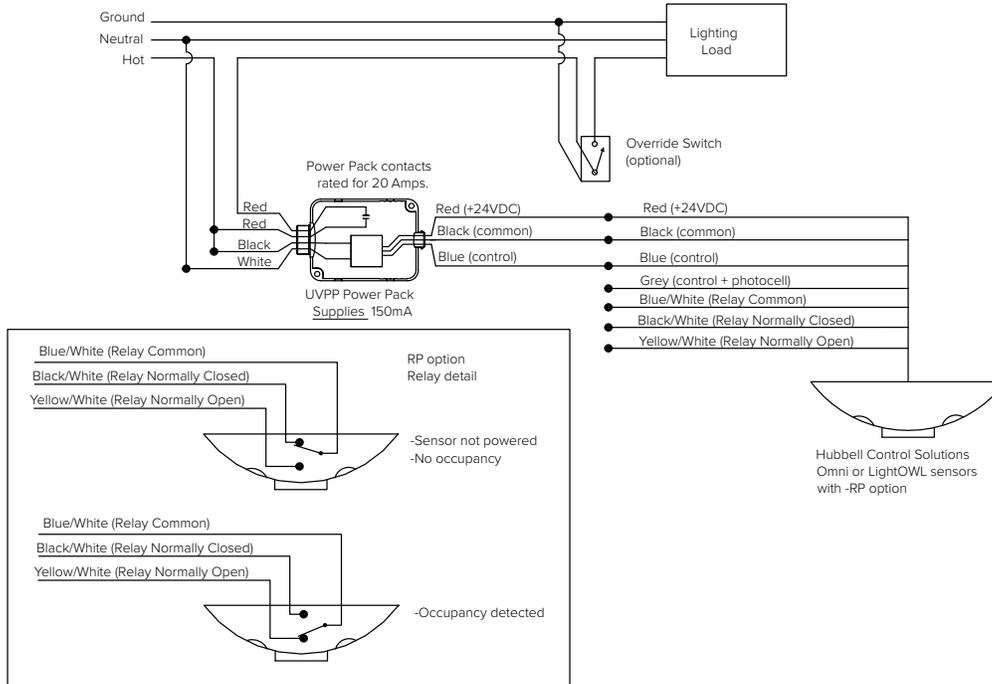


Hubbell Control Solutions  
Low Voltage Sensors (devices)  
Requires 33mA each

NOTE:

- 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



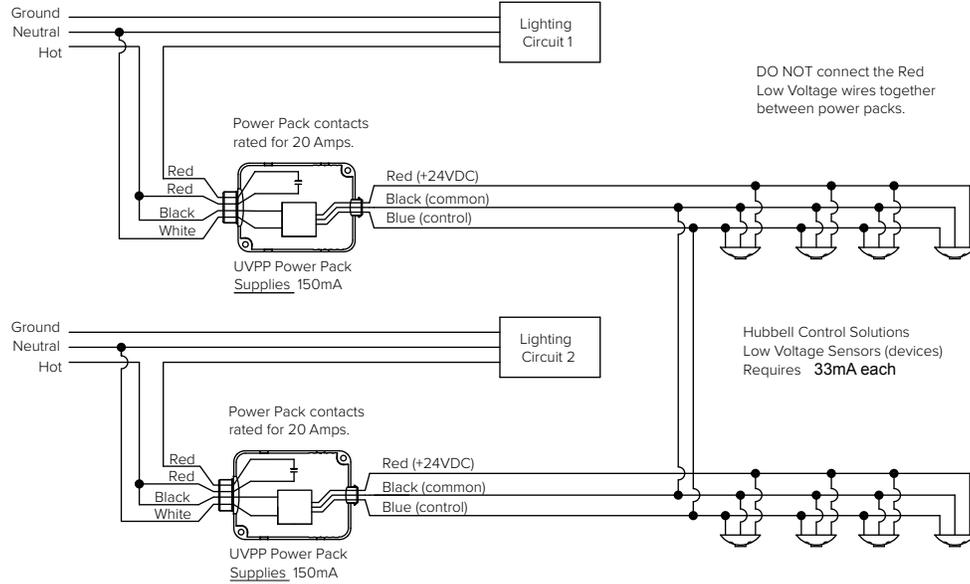
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### Wiring Diagrams



**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

### 1 Circuit with RP Option Wiring