

# LightHAWK®2 Passive Infrared Wall Switch Sensor

WALL SWITCH OCCUPANCY SENSORS

**TITLE  
24**  
COMPLIANCE



Light  
**HAWK®2**



LHIRS1

## PROJECT INFORMATION

Project Name \_\_\_\_\_

Catalog No. \_\_\_\_\_

Date \_\_\_\_\_

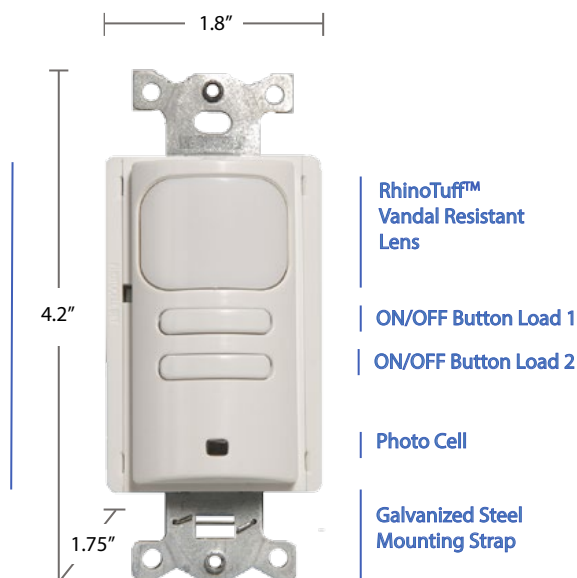
The *LightHAWK2* Passive Infrared Wall Switch Sensor uses passive infrared (PIR) technology to detect motion. The most affordable of the motion detecting technologies, this sensor type is ideal for detecting large motion in areas with an unobstructed view of the sensor. This sensor has a coverage area of up to 1,000 square feet and 180° of detection.

LHIR sensors feature Hubbell Controls' patented IntelliDAPT™ technology, which makes all the sensor adjustment decisions 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* technology provide a maintenance-free install-and-forget operation. With selectable operating modes — automatic ON/OFF or manual ON/automatic OFF — and a built-in photosensor for automatic daylight harvesting, LHIRS sensors are the best choice in today's market place.

## PRODUCT FEATURES

- Digital passive infrared (PIR) sensor
- *IntelliDAPT* self-adaptive technology—no manual adjustment required
- 1 or 2 relay models for single-level switching or bi-level switching
- Occupancy (auto-on) and Vacancy (manual-on) operating modes
- Available with or without Neutral
- 1,000 square-foot, 180° coverage area
- RhinoTuff™ vandal resistant lens
- 120/277VAC operation
- No minimum load requirement
- Zero Arc Point Switching
- Five-year limited warranty
- 120-277 Vac and 347 Vac models
- Low voltage device: 24 Vdc

Fits Standard  
Decorator Style  
Wallplate  
(sold separately)



LHIRD2



**HUBBELL**  
Control Solutions

## General Specifications

|                           |   |
|---------------------------|---|
| IntelliDAPT® Technology   | Self-adjusting timer<br>Self-adjusting passive infrared (PIR) sensitivity<br>Automatic false-on/false-off corrections<br>No manual adjustments required   |
| Time Delay                | Auto mode: 4–30 minutes; self-adjusts based on occupancy<br>Fixed mode: 4, 8, 15, and 30 minutes<br>Test mode: 5 seconds  |
| Passive Infrared (PIR)    | Dual-element pyrometer and 12-element cylindrical RhinoTuff lens  |
| Photocell                 | Natural light override range: 10–500 foot-candles   |
| Coverage                  | 1,000 square-foot, 180° coverage area   |
| Power Requirements        | 120/277VAC; 50/60Hz<br>347VAC; 50/60Hz<br>24VDC (requires UVPP)   |
| Electrical Ratings        | 120VAC: 800W Incandescent/ Electronic Ballast/ LED Driver<br>1,000W Magnetic Ballast<br>1/6 HP Motor<br>277VAC: 1,800W Magnetic Ballast /Electronic Ballast/ LED Driver;<br>1/6 HP Motor<br>347VAC: 1,500W Magnetic Ballast /Electronic Ballast/ LED Driver<br>1/6 HP Motor |
| Minimum Load Requirements | None  |
| Operating Environment     | Indoor use only<br>Operating temperature: 32° to 104°F (0° to 40°C)<br>Relative humidity (non-condensing): 0% to 95%  |
| Construction              | Casing—high-impact injection-molded plastic (UL-94-5V)<br>Impact-resistant lens<br>Color-coded leads are 6" long<br>Wrap-around galvanized steel mounting strap   |
| Dimensions                | 4.2" x 1.8" x 1.75"; .37" extension   |
| Weight                    | 2.9 oz  |
| Color                     | White; Ivory; Light Almond; Gray; Black   |
| Mounting                  | Single-gang NEMA-style switch box (standard switch box)<br>Decorator-style wall plate sold separately   |
| Certifications            | Listed UL, cUL  |
| Warranty                  | Five-year limited   |

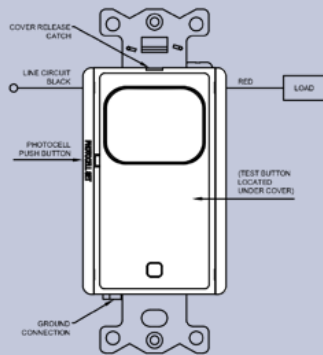
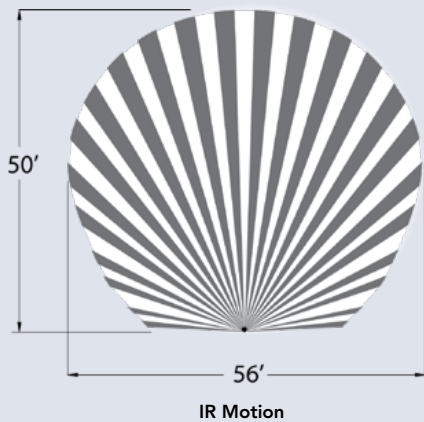
## Ordering Information

| MODEL        |   | BUTTONS   | WIRING      |                    | COLOR     |              | MODE         |                                      |
|--------------|---|-----------|-------------|--------------------|-----------|--------------|--------------|--------------------------------------|
| <b>LHIRS</b> | LightHAWK®2 Passive Infrared Single Relay | <b>0</b>  | <b>G</b>    | Ground (120/277V)  | <b>WH</b> | White        | <b>Blank</b> | Switchable Vacancy or Occupancy Mode |
| <b>LHIRD</b> | LightHAWK2 Passive Infrared Dual Relay    | <b>1*</b> | <b>N</b>    | Neutral (120/277V) | <b>IV</b> | Ivory        | <b>M</b>     | Vacancy Mode Only                    |
|              |   | <b>2†</b> | <b>24V</b>  | Low Voltage        | <b>LA</b> | Light Almond |              |                                      |
|              |   |           | <b>G347</b> | Ground (347V)      | <b>GY</b> | Gray         |              |                                      |
|              |   |           | <b>N347</b> | Neutral (347V)     | <b>BK</b> | Black        |              |                                      |

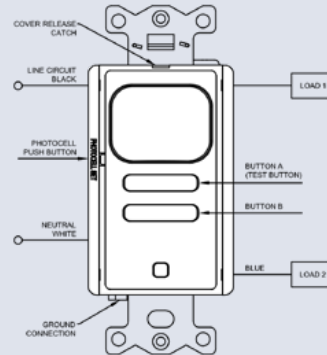
NOTE: \* Only available with LightHAWK2 Passive Infrared Single Relay

† Only available with LightHAWK2 Passive Infrared Dual Relay

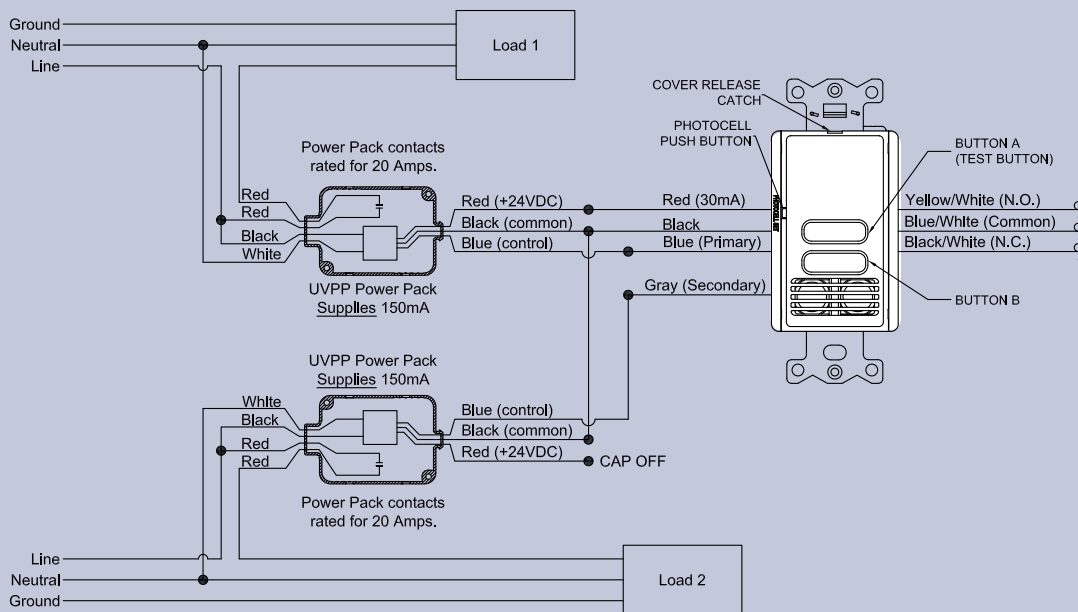
- Low voltage sensors require a power pack that is sold separately.



Single Load Wiring Without Neutral



Dual Load Wiring With Neutral



Low Voltage Dual Level Control with Two Power Packs



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1118A 2.2.2016