



HUBBELL
Control Solutions

Light **HAWK[®] 2**

WALL SWITCH VACANCY
& OCCUPANCY SENSORS



HUBBELL
Lighting

EVER EVOLVING ENERGY CODE REQUIREMENTS AND THE LARGE DEMAND FOR ENERGY SAVING PRODUCTS HAVE MADE LIGHTING CONTROL SENSORS A MUST-HAVE FOR BUILDING OWNERS AND MANAGERS.

Hubbell Control Solutions introduces the LightHAWK®2 wall switch vacancy & occupancy sensors. This family of wall switch vacancy/occupancy sensors provides a wide variety of options and features that fulfill the ever growing demands placed on building owners and managers.

FEATURES & BENEFITS OF *LIGHTHAWK2* SENSORS

VACANCY AND OCCUPANCY

LightHAWK2 sensors combine the option of operating in either Vacancy Mode (Manual ON – Auto OFF) or Occupancy Mode (Auto ON – Auto OFF) in a single sensor. All *LightHAWK2* sensor models are shipped standard in Vacancy Mode. Additionally, dual relay models can be set to operate in a 50% Auto ON - 50% Manual On mode.

VACANCY ONLY MODE

Certain codes now require that motion sensors operate only in Vacancy Mode. *LightHAWK2* sensor offers models that operate in Vacancy Only Mode to meet these requirements.

NO NEUTRAL REQUIRED

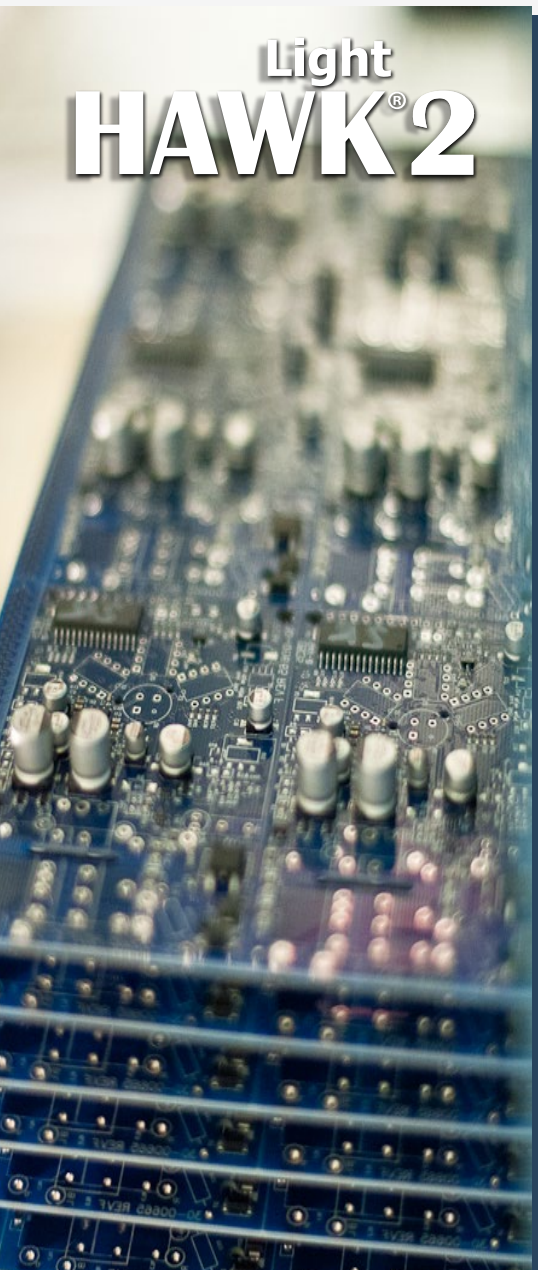
LightHAWK2 sensors are available with or without a neutral connection. A neutral wire is often missing in retrofit applications where a standard light switch has been removed. HCS's unique Leakage-to-Ground technology makes it possible to install the *LightHAWK2* sensor without the expense of pulling neutral connections to each switch location. Drawing less than 0.5 mA leakage to ground, the *LightHAWK2* sensor is still compliant with NEC and UL requirements.

SMART IntelliDAPT® TECHNOLOGY

HCS's patented *IntelliDAPT* Technology allows *LightHAWK2* digital sensors to use microprocessors and internal software to constantly monitor the controlled area and automatically adjust the sensitivity and timing based on environmental history. This means that instead of manually adjusting the sensor for seasonal changes, modified airflow, furniture layout or occupancy pattern changes, the sensor automatically adjusts itself.

SINGLE OR DUAL RELAY CONTROL

Certain *LightHAWK2* sensor models are available in either single or dual relay. The dual relay models are ideal for bi-level switching or dual-relay control of a lighting load and a motor load, such as a fan.



PHOTOCELL OVERRIDE

All *LightHAWK2* sensor models come with a built-in photocell. If activated during commissioning, this feature will provide additional energy savings by allowing the lights to remain off when the room is both occupied and has enough natural light from a window or skylight. Commissioning is a simple button press at the brightest time of day – the sensor does all the work to achieve optimal daylighting performance.

DURABLE CONSTRUCTION

Utilizing high-impact injection-molded plastics, *LightHAWK2* wall switch sensors are designed to last. Each sensor comes with HCS's RhinoTuff™ vandal-resistant lens and a wrap-around galvanized steel mounting strap. Zero-Arc Point Switching technology more than doubles the life of the relay. Each sensor comes with a five-year warranty.

STAND ALONE LIGHTING CONTROL

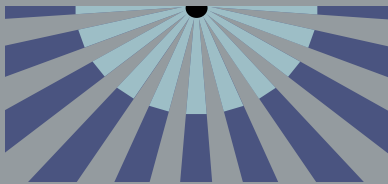
LightHAWK2 Wall Switch Sensors are stand-alone control devices. It is not necessary to purchase all the needed sensors at once. Standard light switches can be changed out to motion sensors as needed, allowing energy savings without a large initial capital investment.



MOST RELIABLE MOTION SENSING TECHNOLOGIES

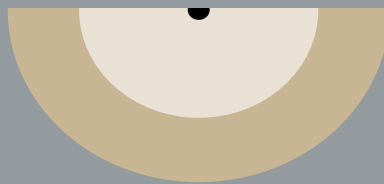
Different lighting applications require different sensor technologies to provide the best sensor coverage and performance.

LightHAWK2 sensors are available with the most reliable indoor motion sensor technologies currently available: Passive Infrared (PIR), Ultrasonic (US), and Dual Technology.



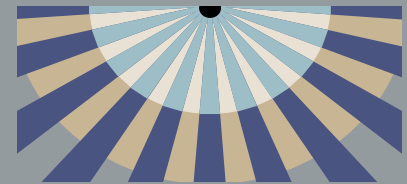
PASSIVE INFRARED TECHNOLOGY

Passive infrared sensors provide the best solution for major motion detection. These sensors use a specially designed lens to divide the space into separate zones. When a person crosses between these zones, the sensor detects occupancy. Passive infrared sensors are perfect for small, enclosed spaces with frequent occupant movement.



ULTRASONIC TECHNOLOGY

Ultrasonic sensors provide the best solution for detecting minor motion such as typing, reading, and writing. These sensors emit a safe, inaudible sound wave into the control space. Minor movements cause frequency shifts in the emitted waves which are detected by the sensor. Since ultrasonic sensors are volumetric and do not require a clear line of sight, they are ideal for hallways or restrooms with stalls.

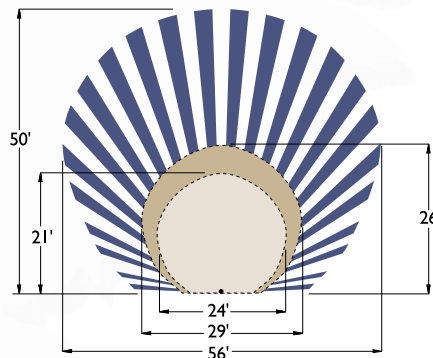
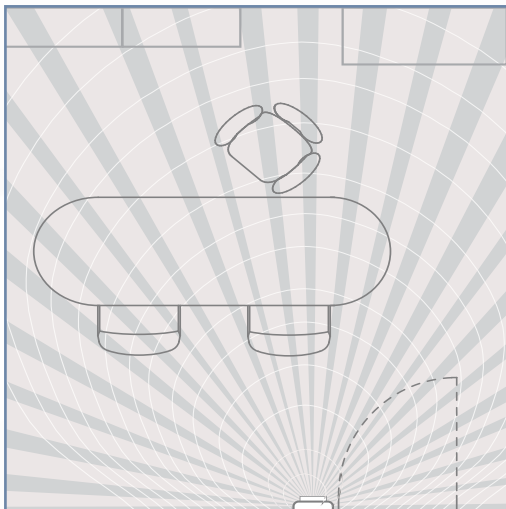


DUAL TECHNOLOGY

Dual technology sensors combine passive infrared and ultrasonic technologies for maximum reliability. Both technologies must detect occupancy to activate lighting, and only one technology is required to keep lighting on. Dual technology sensors are the best solution for most applications.

LightHAWK®2 Dual Technology Wall Switch Sensors

With a coverage area of up to 1,000 square feet and 180° of detection, the *LightHAWK2* Dual Technology Wall Switch Sensor combines ultrasonic (US) and passive infrared (PIR) technologies for unequaled motion detection. By far the most versatile and widely used sensor in the *LightHAWK2* product line, this sensor can be used in a large number of applications, and won't leave users waving their hands in the dark. This sensor includes HBA patented IntelliDAPT™ technology.



Recommended Applications

- Personal Offices
- Conference Rooms
- Study Areas
- Break Rooms
- Small Waiting Rooms

- US Major Motion
- US Minor Motion
- IR Motion

Ordering Information

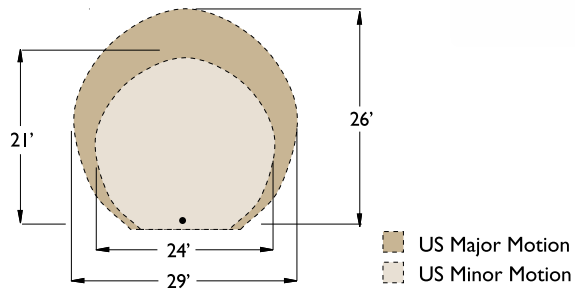
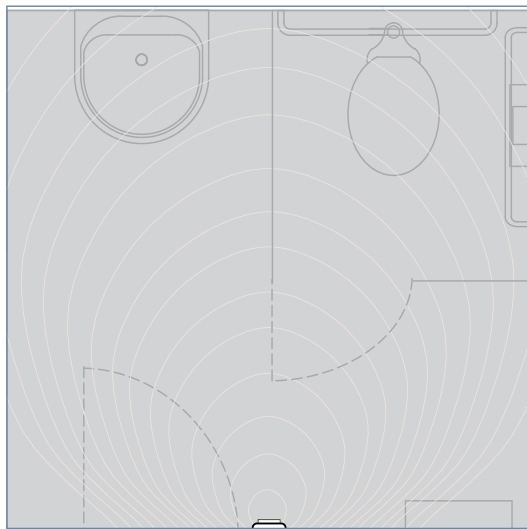
MODEL	BUTTONS	WIRING	COLOR	MODE
LHMTS <i>LightHAWK2</i> Dual Technology Single Relay	0 1*	G Ground (120/277V) N Neutral (120/277V) 24V Low Voltage G347 Ground (347V) N347 Neutral (347V)	WH White IV Ivory LA Light Almond GY Gray BK Black	Blank Switchable Vacancy or Occupancy Mode M Vacancy Mode Only
LHMTD <i>LightHAWK2</i> Dual Technology Dual Relay	2†			

NOTE: * Only available with *LightHAWK2* Dual Technology Single Relay.
 † Only available with *LightHAWK2* Dual Technology Dual Relay.
 - Wall switch plates are sold separately.
 - Low voltage sensors require a power pack that is sold separately.

LightHAWK®2 Ultrasonic Wall Switch Sensors



The *LightHAWK2* Ultrasonic Wall Switch Sensor uses ultrasonic (US) technology for detecting minor movement in areas with line-of-sight obstacles such as cubicles and stalls. Because ultrasonic technology is volumetric in nature, its coverage pattern can adapt itself to fill oddly shaped spaces such as alcoves, recesses, and nooks. This sensor has a coverage area of up to 400 square feet and 180° of detection. This sensor includes HBA patented IntelliDAPT® technology.



Recommended Applications

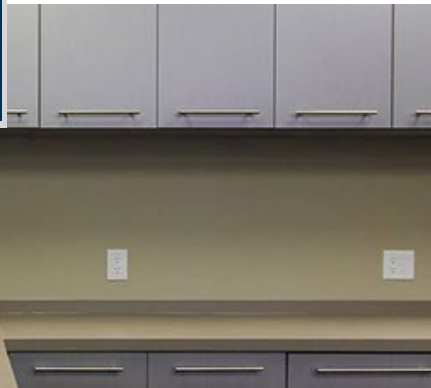
- Restrooms with Stalls
- Hallways
- Small Laboratories
- Computer Server Rooms

Ordering Information

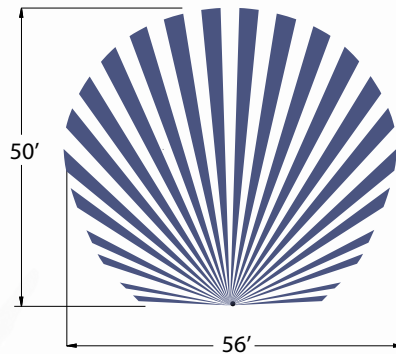
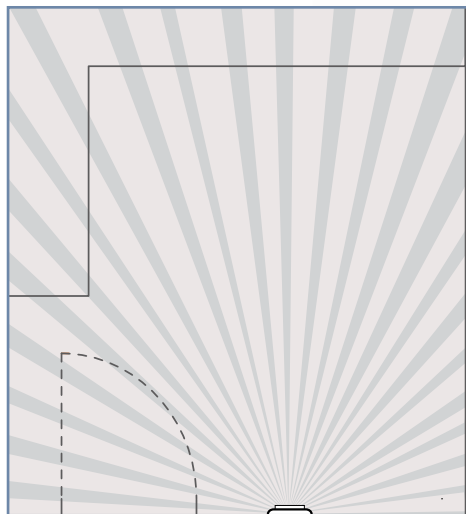
MODEL		BUTTONS		WIRING		COLOR		MODE	
LHUSS	<i>LightHAWK2</i> Ultrasonic Single Relay	0	1*	G	Ground (120/277V)	WH	White	Blank	Switchable Vacancy or Occupancy Mode
LHUSD	<i>LightHAWK2</i> Ultrasonic Dual Relay	2†		N	Neutral (120/277V)	IV	Ivory	M	Vacancy Mode Only
				24V	Low Voltage	LA	Light Almond		
				G347	Ground (347V)	GY	Gray		
				N347	Neutral (347V)	BK	Black		

NOTE: * Only available with *LightHAWK2* Ultrasonic Single Relay.
 † Only available with *LightHAWK2* Ultrasonic Dual Relay.
 - Wall switch plates are sold separately.
 - Low voltage sensors require a power pack that is sold separately.

LightHAWK[®]2 Passive Infrared Wall Switch Sensors



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. This sensor includes HCS patented IntelliDAPT[™] technology.



■ IR Motion

Recommended Applications

- Utility Closets
- Storage Areas
- Copy Rooms
- Small Restrooms Without Stalls

Ordering Information

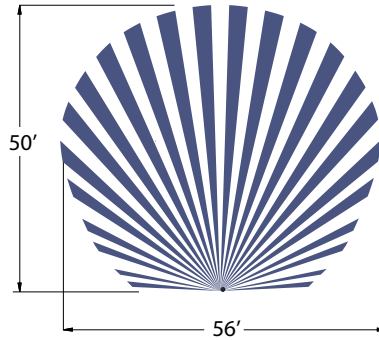
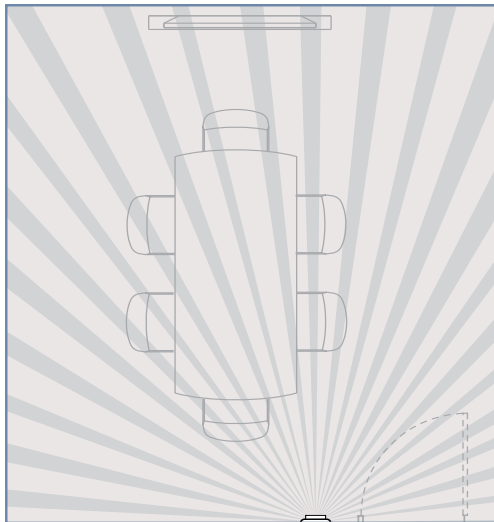
MODEL		BUTTONS		WIRING		COLOR		MODE	
LHIRS	<i>LightHAWK2</i> Passive Infrared Single Relay	0		G	Ground (120/277V)	WH	White	Blank	Switchable Vacancy or Occupancy Mode
LHIRD	<i>LightHAWK2</i> Passive Infrared Dual Relay	1*		N	Neutral (120/277V)	IV	Ivory	M	Vacancy Mode Only
		2†		24V	Low Voltage	LA	Light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

NOTE: * Only available with *LightHAWK2* Passive Infrared Single Relay
 † Only available with *LightHAWK2* Passive Infrared Dual Relay
 - Wall switch plates are sold separately.
 - Low voltage sensors require a power pack that is sold separately.

LightHAWK[®]2 Dimming Wall Switch Sensors



The *LightHAWK2* Dimming Wall Switch Sensor combines passive infrared (PIR) technology with the additional energy savings of 0-10V dimming. The user can set the occupied level to a predetermined level or set the sensor to activate to the last-used dimming level. With ON/OFF and Dimming Control, the user can easily adjust the light level for their area. This sensor has a coverage area of up to 1,000 square feet and 180° of detection. This sensor includes HCS patented IntelliDAPT[®] technology.



Recommended Applications

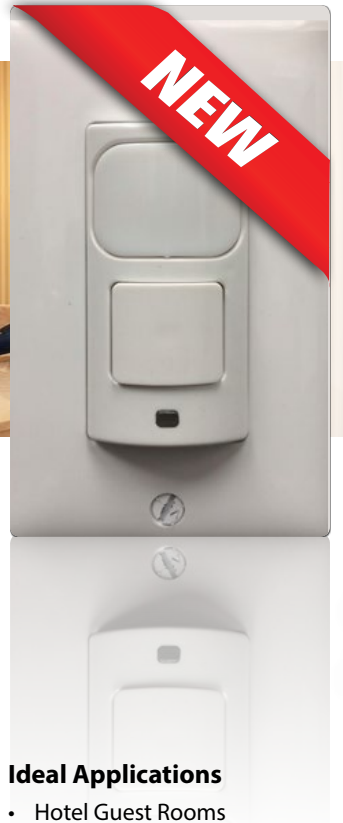
- Small Offices
- Small Conference Rooms

Ordering Information

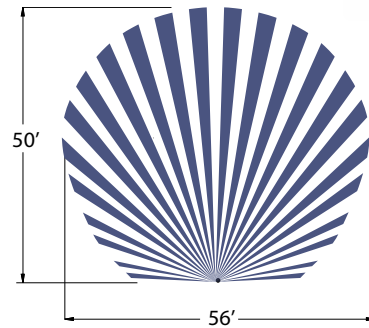
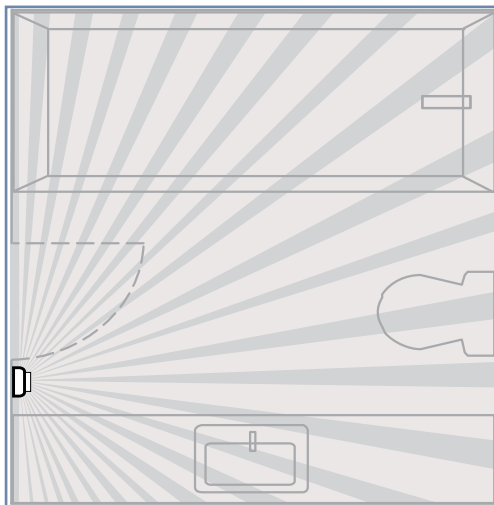
LHD-IRS		3			
MODEL	BUTTONS	WIRING	COLOR	MODE	
LHD-IRS <i>LightHAWK2</i> Dimming Passive Infrared Single Relay	3	N Neutral (120/277V) N347 Neutral (347V)	WH White IV Ivory LA Light Almond GY Gray BK Black	Blank Switchable Vacancy or Occupancy Mode	M Vacancy Mode Only

NOTE: - Wall switch plates are sold separately.

LightHAWK[®]2 Night Light Wall Switch Sensors



Whether used for code compliance or for mere convenience, the *LightHAWK2* Night Light Wall Switch Sensor combines passive infrared (PIR) technology with the added safety and comfort of a night light. Ideal for use in the hospitality industry, this sensor has a coverage area of up to 1,000 square feet and 180° of detection and is ready to use anywhere a little extra light would make all the difference. This sensor includes HCS patented IntelliDAPT[™] technology.



Ideal Applications

- Hotel Guest Rooms
- Break Rooms
- Restrooms
- Small Offices

■ IR Motion

Ordering Information

LHN-IRS		1			
MODEL	BUTTONS	WIRING	COLOR	MODE	
LHN-IRS1 <i>LightHAWK2</i> Night Light Passive Infrared Single Relay	1	N Neutral (120/277V) N347 Neutral (347V)	WH White IV Ivory LA Light Almond GY Gray BK Black	Blank Switchable Vacancy or Occupancy Mode M Vacancy Mode Only	

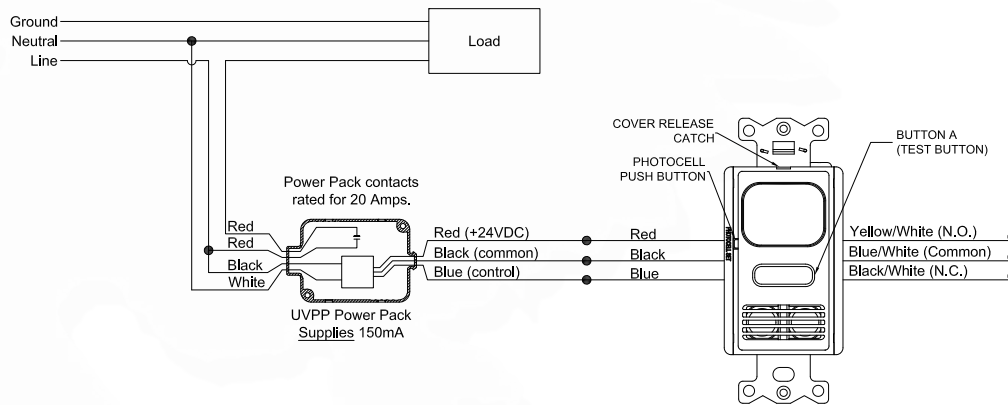
NOTE: - Wall switch plates are sold separately.

LightHAWK®2 Low Voltage Wall Switch Sensors

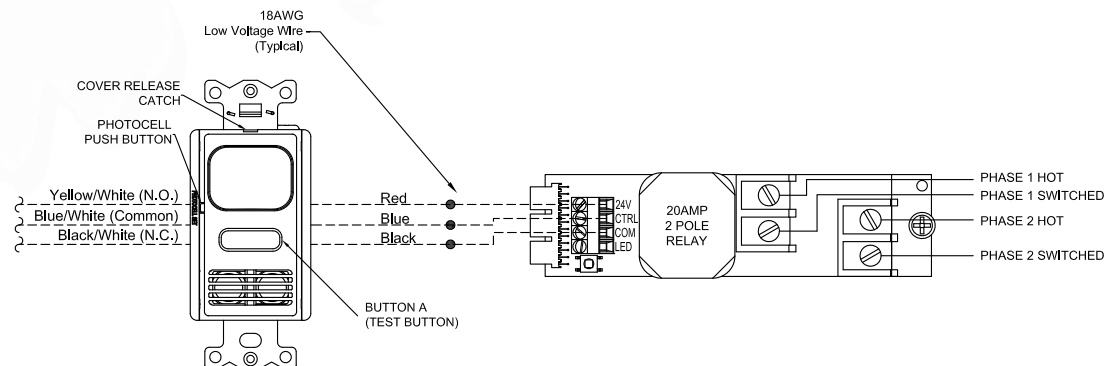


Designed to work with a power pack or as part of a lighting control system, the *LightHAWK2* Low Voltage Wall Switch Sensor is available in Dual Technology, Passive Infrared (PIR) and Ultrasonic (US). This sensor looks identical to the line voltage versions* allowing for a uniform appearance throughout a building where the lighting control design calls for both line voltage and low voltage options.

* See ordering information on previous product pages for the 24V version of each model. The dimming and nightlight models are not available in 24V.



Used with a Power Pack



Used with a Control System

Light HAWK[®]2



LightHAWK[®]2 FEATURES AT A GLANCE

FEATURES	LH2 Dual Technology	LH2 Passive Infrared	LH2 Ultrasonic	LH2 Dimming	LH2 Night Light
Vacancy and Occupancy	✓	✓	✓	✓	✓
Vacancy ONLY Mode	✓	✓	✓	✓	✓
No Neutral Required	✓	✓	✓		
Neutral Connection	✓	✓	✓	✓	✓
Smart IntelliDAPT [®] Technology	✓	✓	✓	✓	✓
Dual Relay Control	✓	✓	✓		
Single Relay Control	✓	✓	✓	✓	✓
Photocell Override	✓	✓	✓	✓	✓
RhinoTuff [™] Lens	✓	✓	✓	✓	✓
Steel Mounting Strap	✓	✓	✓	✓	✓
Zero-Arc Point Switching	✓	✓	✓	✓	✓
Passive Infrared Technology	✓	✓		✓	✓
Ultrasonic Technology	✓		✓		
Coverage (sq ft)	1,000	1,000	400	1,000	1,000
120/277V	✓	✓	✓	✓	✓
347V	✓	✓	✓	✓	✓
24V	✓	✓	✓		
No Minimum Load	✓	✓	✓	✓	✓
5 Year Warranty	✓	✓	✓	✓	✓

A SENSOR FOR EVERY APPLICATION

In addition to the LightHAWK®2 Wall Switch Sensors, Hubbell Control Solutions offers a complete line of vacancy and occupancy sensors to meet an even wider range of applications. Ceiling and Wall Mount sensors are available with IntelliDAPT™ technology and provide simple installation, easy setup and reliable, maintenance free operation.

Visit www.hubbell-automation.com for specification sheets and other useful information regarding HCS motion sensors.

LightOWL® Wall Mount Sensors

- Passive Infrared or Dual Technology
- Range: 450 to 1,600 sq ft
- 180° Coverage
- IntelliDAPT Self Adapting Technology
- Wide view & High Bay versions available
- Optional relay and photocell control
- Non-volatile memory for sensor settings
- White



OMNI® Ceiling Sensors

- Passive Infrared, Ultrasonic, or Dual Technology
- Range: 450 to 2,000 sq ft
- 180° or 360° Coverage
- IntelliDAPT Self Adapting Technology
- Optional relay and photocell control
- Non-volatile memory for sensor settings
- White

THE LIGHTHAWK'S SOARING LEGACY

From the very beginning, *LightHAWK* Wall Switch Sensors have been the choice of both discerning specifiers and quality conscience contractors. Introduced in 1998, the *LightHAWK* sensor was the first “Smart” wall switch sensor on the market, automatically adjusting for both timing and sensitivity. This was made possible by equipping each sensor with a microprocessor containing adaptive learning algorithms that would automatically make minor adjustments to the sensor based on its environment.

The *LightHAWK* sensor also pushed the boundaries by being the first wall switch sensor to be fully digital and come standard with a vandal resistant lens. With hundreds of thousands of *LightHAWK* sensors sold and installed through the years, this sensor has set many of the standards consumers have come to expect in today's industry. As one of Hubbell Control Solutions' simple, innovative lighting control solutions, the *LightHAWK2* sensor will continue this distinguished legacy and push the “Hawk” to even greater heights in the years to come.



HUBBELL
Lighting

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Hubbell Lighting Brands:

Alera Lighting
Architectural Area Lighting
Beacon Products
Columbia Lighting
Compass Life Safety
Devine Lighting
Dual-Lite
Hubbell Control Solutions
Hubbell Industrial
Hubbell Outdoor
Kim Lighting
Kurt Versen
Litecontrol
Precision-Paragon [P2]
Prescolite
Progress Lighting
Security Lighting Systems
Spaulding Lighting
Sportsliter Solutions
Sternern
Thomas Research Products
Whiteway

Hubbell Control Solutions
Lighting Control Product Lines:

Networked Lighting Controls

NX™ Distributed Intelligence controls

Wireless Lighting Controls

wiHUBB® Distributed lighting controls
wiSCAPE™ Outdoor lighting controls
wiSTAR™ Self-powered lighting controls

Daylight Harvesting Controls

Zone 5™ Daylighting controls
LuxStat Simple daylighting control

Lighting Control Panels

CX Commercial Lighting Controls
LX Networked Lighting Controls

Occupancy/Vacancy Sensors

LightHAWK®2 Wall switch sensor
LightOWL® Wall-mount occupancy sensor
OMNI® Ceiling-mount occupancy sensor
WASP™2 High-mount occupancy sensor
Dimming WASP™ Indoor/outdoor sensor

Hubbell, A Name You Can Trust

Hubbell Control Solutions is a strong proponent of innovative, integrated energy-saving lighting controls. From introducing the industry's first self-adaptive occupancy sensor to today's advanced wired and wireless distributed intelligence lighting controls, the company continues to offer the most comprehensive line of occupancy sensors on the market. Other products include daylight harvesting and high bay controls.

The brand is part of Hubbell Lighting, one of the largest lighting manufacturers in North America. Hubbell Lighting brands offer products for commercial, industrial and residential markets. The company's history of innovation extends back to 1886 and Harvey Hubbell's invention of the very first lighting control device—the pull chain switch.



HUBBELL
Control Solutions

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