OCCUPANCY SENSING | IntelliDAPT | DAYLIGHT HARVESTING

Project Name

Catalog No.   Date

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 sensorin 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.

LHMT 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 provide a maintenance-free, install-and-forget operation. With selectable operating modes—auto on/off or manual on/auto off—and a built-in photosensor for automatic daylight harvesting, LHMT sensors are the most capable choice in today's marketplace.

Product Features

- Digital dual technology: (US) and (PIR) sensors
- IntelliDAPT self-adaptive technology—no manual adjustment required
- Dual circuit has isolated relays
- 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
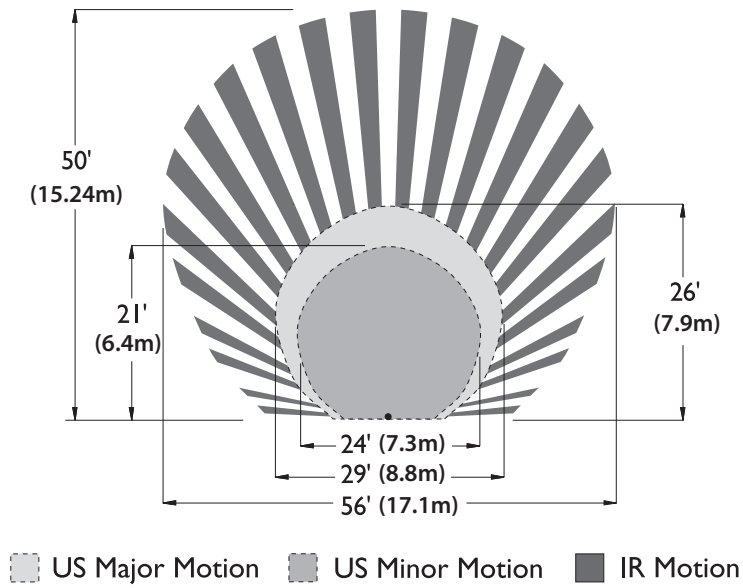- Low voltage device: 24VDC

Compliance and Certification

c(UL)us LISTED   TITLE **24** COMPLIANCE

Dimensional Data

3.38" [85.91]   2.70" [68.69]   1.70" [43.26]   1.72" [43.61]
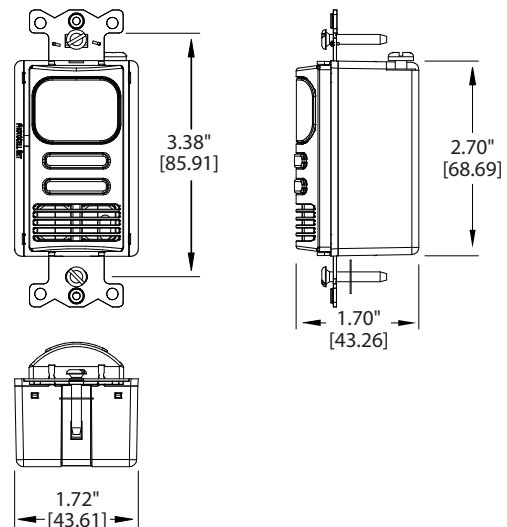
Ordering Information

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MODEL		WIRING		COLOR		MODE	
LHMTS0	Dual Technology, Single Relay, No Button	**G**	Ground (120/277V)	**WH**	White	**Blank**	Switchable Vacancy or Occupancy Mode
LHMTS1	Dual Technology, Single Relay, One Button	**N**	Neutral (120/277V)	**IV**	Ivory	**M**	Vacancy Mode Only
LHMTD0	Dual Technology, Dual Relay (One Input / Two Outputs), No Buttons	**24V***	Low Voltage	**LA**	Light Almond		
LHMTD2	Dual Technology, Dual Relay (One Input / Two Outputs), Two Buttons	**G347**	Ground (347V)	**GY**	Gray		
LHDCMTD0	Dual Technology, Dual Circuit (Two Inputs / Two Outputs), No Buttons	**N347**	Neutral (347V)	**BK**	Black		
LHDCMTD2	Dual Technology, Dual Circuit (Two Inputs / Two Outputs), Two Buttons						

*Not available with LHDCMTD version
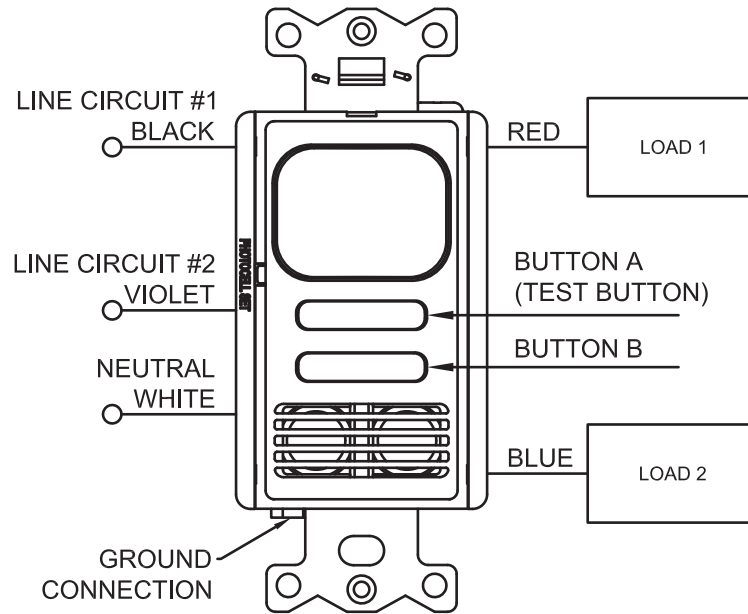-Low voltage sensors require a power pack that is sold separately

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Coverage Pattern

50'
(15.24m)

21'
(6.4m)

26'
(7.9m)

24' (7.3m)
29' (8.8m)
56' (17.1m)

US Major Motion   US Minor Motion   IR Motion

Wiring Diagram

Single Load Wiring Without Neutral

LINE CIRCUIT
BLACK

RED

LOAD

PHOTOCELL SET

GROUND
CONNECTION

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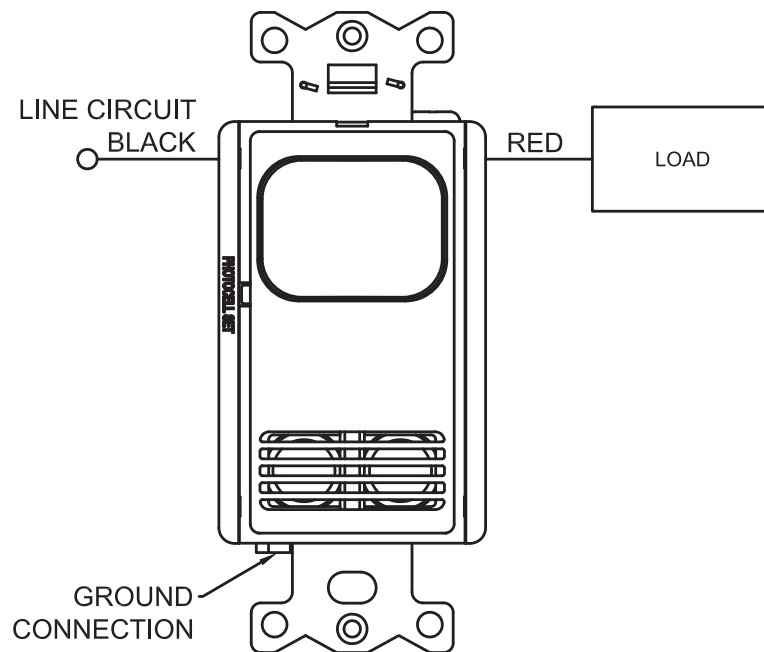
Wiring Diagram

Dual Load Wiring With Neutral

Low Voltage Dual Level Control with Two Power Packs

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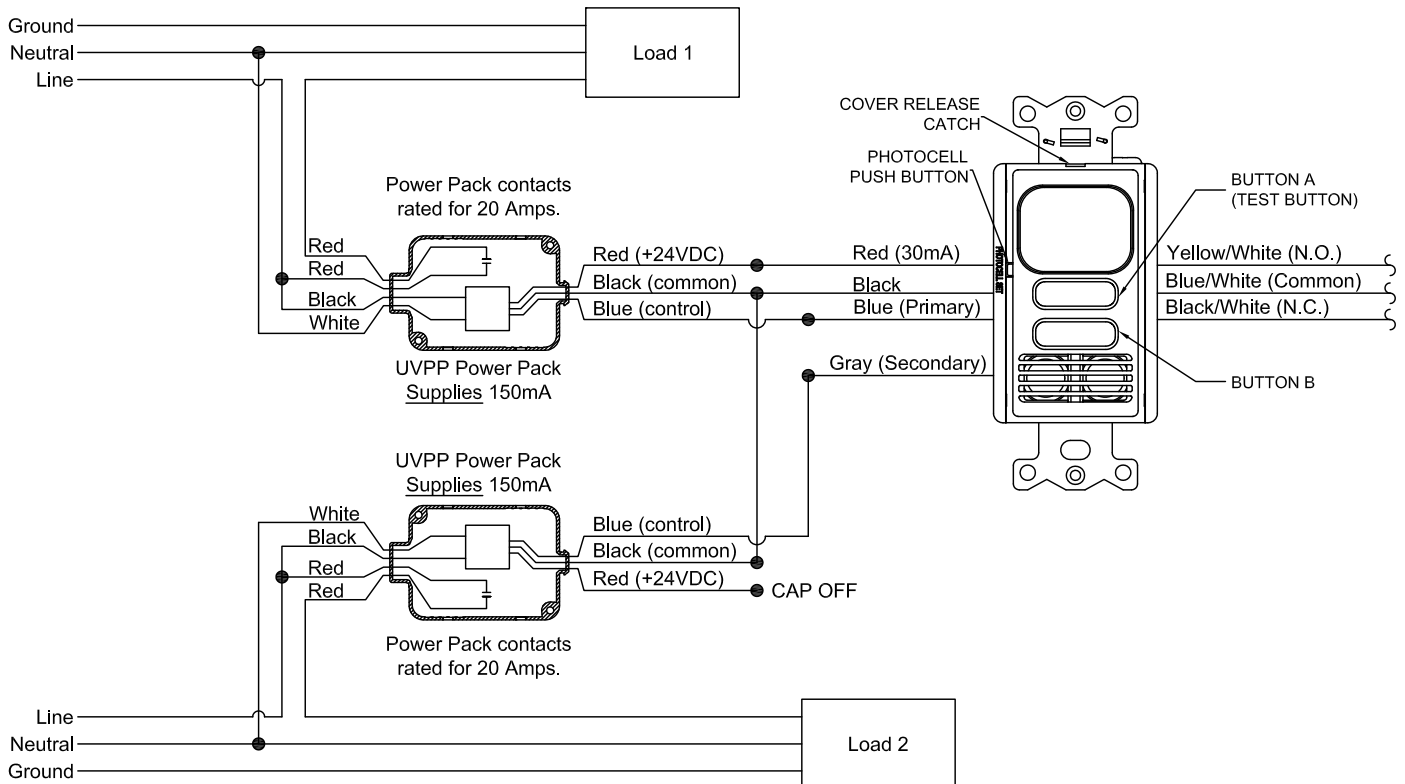
General Specifications

IntelliDAPT Technology	Self-adjusting timer Self-adjusting Ultrasonic (US) and passive infrared (PIR) sensitivity Automatic false-on/ false-off corrections No manual adjustments required
Time Delay	Auto mode: 4-30 minutes; self-adjusts based on occupancy Fixed mode: 4, 8, 15, and 30 minutes Test mode: 5 seconds
Ultrasonic (US) Output	40kHz output
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 347VAC; 50/60Hz 24VDC (requires UVPP)

Electrical Ratings	120VAC: 800W Incandescent/ Electronic Ballast/ LED Driver
	     1,000W Magentic Ballast
	     1/6 HP Motor
	277VAC: 1,800W Magnetic Ballast/ Electronic Ballast/ LED Driver:
	     1/6 HP Motor
	347VAC: 1,500W Magnetic Ballast/ Electronic Ballast/ LED Driver:
	     1/6 HP Motor

Minimum Load Requirements	None
Operating Environment	Indoor use only Operating temperature: 32° to 104°F (0° to 40°C) Relative humidity (non-condensing): 0% to 95%
Construction	Casing- high- Impact injection-molded plastic (UL-94-5V) Impact-resistant lens Color- coded leads are 6" (152.4mm) long Wrap-around galvanized steel mounting strap
Dimensions	4.2" H x 1.8"W x 1.75"D; .37" extension (106.68mm H x 44.45mm D; 9.4mm ext.)
Weight	2.9 oz (82.21g)
Color	White; Ivory; Light Almond; Gray; Black
Mounting	Single-gang NEMA-style switch box (standard switch box) Decorator-style wall plate sold separately
Certifications	Listed UL and cUL
Warranty	Five-year limited

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