TITLE 24 COMPLIANCE

OCCUPANCY SENSING

IntelliDAPT

DAYLIGHT HARVESTING

LHUSS1

PROJECT INFORMATION

Project Name

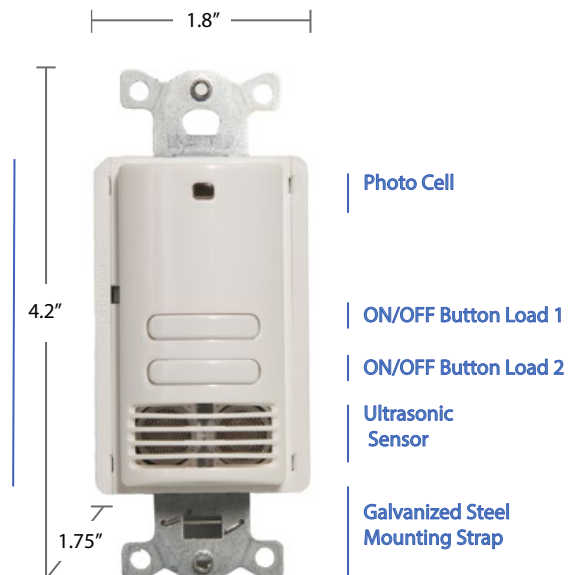Catalog No.   Date

The *LightHAWK*2 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.

LHUS 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, the LHUSS sensors are the most capable choice in today's market place.

PRODUCT FEATURES

- Digital Ultrasonic (US) 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
- 400 square-foot, 180° coverage area
- 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

1.8"

4.2"

1.75"

Photo Cell

ON/OFF Button Load 1

ON/OFF Button Load 2

Ultrasonic Sensor

Galvanized Steel Mounting Strap

Fits Standard Decorator Style Wallplate (sold separately)

LHUSD2

HUBBELL Control Solutions

General Specifications

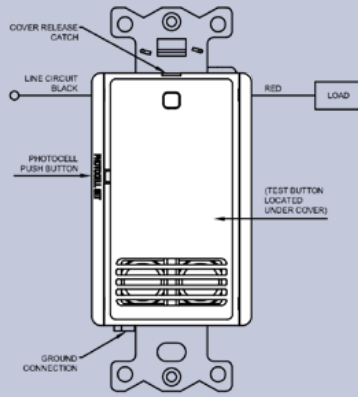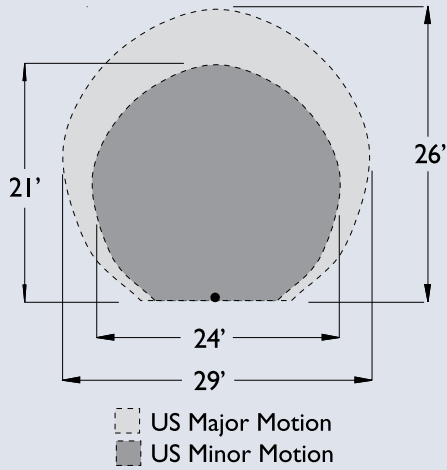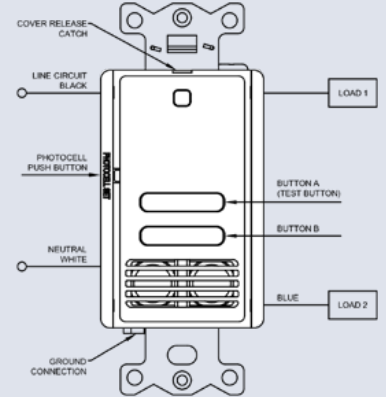|	
IntelliDAPT® Technology	Self-adjusting timer Self-adjusting ultrasonic (US) sensitivity Automatic false-on/false-off corrections No manual adjustments required
Time Delay	Auto mode: 4–30 minutes; self-adjusts based on occupancy Fixed mode: 4, 8, 15, and 30 minutes Test mode: 5 seconds
Ultrasonic (US) Output	40kHz output
Photocell	Natural light override range: 10–500 foot-candles
Coverage	400 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 Magnetic 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) Color-coded leads are 6" long 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) Decorator-style wall plate sold separately
Certifications	Listed UL, cUL
Warranty	Five-year limited

Ordering Information

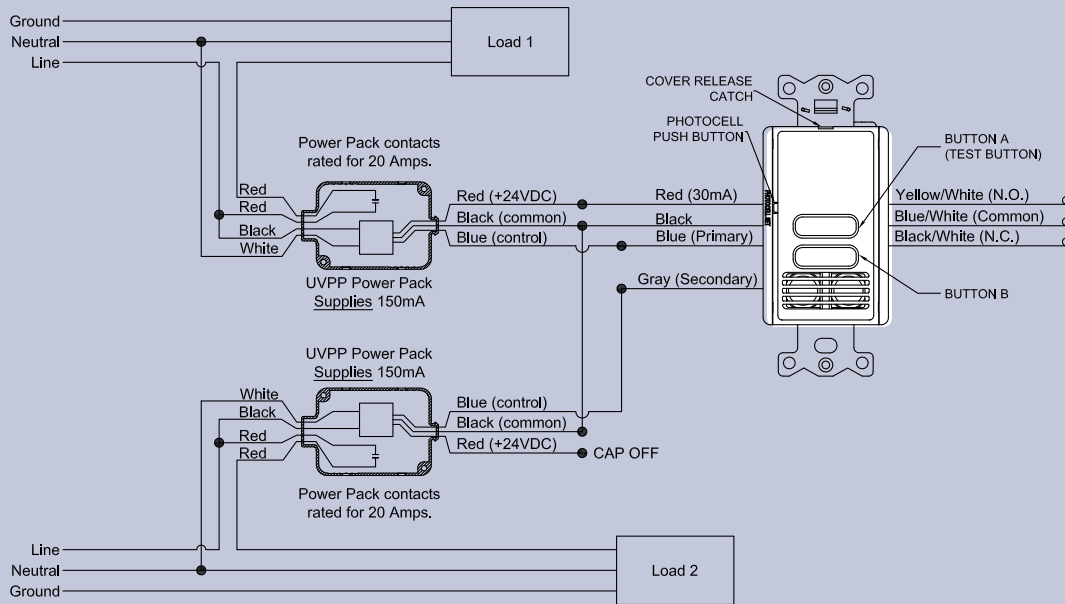| MODEL		BUTTONS	WIRING		COLOR		MODE	
LHUSS	LightHAWK®2 Ultrasonic Single Relay	**0**	**G**	Ground (120/277V)	**WH**	White	**Blank**	Switchable Vacancy or Occupancy Mode
LHUSD	*LightHAWK*2 Ultrasonic Dual Relay	**1***	**N**	Neutral (120/277V)	**IV**	Ivory	**M**	Vacancy Mode Only
		2†	**24V**	Low Voltage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

NOTE: * Only available with *LightHAWK*2 Ultrasonic Single Relay.
     † Only available with *LightHAWK*2 Ultrasonic Dual Relay.
    - Low voltage sensors require a power pack that is sold separately.

HUBBELL
Control Solutions

21'
26'
24'
29'

US Major Motion
US Minor Motion

COVER RELEASE CATCH
LINE CIRCUIT BLACK
PHOTOCELL PUSH BUTTON
RED
LOAD
(TEST BUTTON LOCATED UNDER COVER)
GROUND CONNECTION

Single Load Wiring Without Neutral

COVER RELEASE CATCH
LINE CIRCUIT BLACK
PHOTOCELL PUSH BUTTON
NEUTRAL WHITE
GROUND CONNECTION
LOAD 1
BUTTON A (TEST BUTTON)
BUTTON B
BLUE
LOAD 2

Dual Load Wiring With Neutral

Ground
Neutral
Line
Load 1

Power Pack contacts rated for 20 Amps.
Red
Red
Black
White
Red (+24VDC)
Black (common)
Blue (control)
UVPP Power Pack Supplies 150mA

Red (30mA)
Black
Blue (Primary)
Gray (Secondary)

COVER RELEASE CATCH
PHOTOCELL PUSH BUTTON
BUTTON A (TEST BUTTON)
Yellow/White (N.O.)
Blue/White (Common)
Black/White (N.C.)
BUTTON B

UVPP Power Pack Supplies 150mA
White
Black
Red
Red
Blue (control)
Black (common)
Red (+24VDC)
CAP OFF
Power Pack contacts rated for 20 Amps.

Line
Neutral
Ground
Load 2

Low Voltage Dual Level Control with Two Power Packs