HUBBELL Control Solutions

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

LIGHTHAWK® PASSIVE INFRARED WALL SWITCH SENSOR

WALL SWITCH OCCUPANCY SENSORS

BROCHURE
DIMENSIONS
INSTALL GUIDE

FEATURES

- Digital passive infrared (PIR) sensor
- IntelliDAPT® self-adaptive technology; no manual adjustment required
- Single and dual relay models for ON/OFF switching
- Occupancy (auto-on) and Vacancy (manual-ON) operating modes
- 1,000 square-foot, 180° coverage area
- RhinoTuff™ vandal resistant lens
- 120/277VAC, 347VAC and 24VDC models

Title 24 | cULus LISTED | OCCUPANCY SENSING | IntelliDAPT | DAYLIGHT HARVESTING | BUY AMERICAN SOLUTIONS — See Certification Specifications

RELATED PRODUCTS

- LightHAWK Dimming PIR
- LightHAWK Dual Tech
- Dimmimg Dual Tech
- LightHAWK Ultrasonic
- LightHAWK Night Light
- Universal Voltage Power Packs

SPECIFICATIONS

CONSTRUCTION

- Casing - high - Impact injection - molded plastic (UL–94–5V Impact-resistance lens)
- Color-coded leads are 6" (152.4mm) long
- Wrap around galvanized steel mounting strap
- 2.9 oz. (82.21g)
- White; Ivory; Light Almond; Gray; Black
- Dual-element pyrometer and 12-element cylindrical RhinoTuff lens

MOUNTING

- Single-gang NEMA-style switch box (standard switch box)
- Decorator-style wall plate sold separately

ELECTRICAL

- Natural light override range: 10-500 foot-candles
- 120/277VAC;50/60Hz
- 347VAC; 50/60Hz
- 24VDC (requires power pack-sold separately)
- 120VAC: 800W Incandescent/ Electronic Ballast/ LED Driver: 1,000W Magentic Ballast; ⅛ HP Motor
- 277VAC: 1,800W Magnetic Ballast/ Electronic Ballast/ LED Driver; ⅛ HP Motor

ELECTRICAL (CONTINUED)

- 347VAC: 1,500W Magnetic Ballast/ Electronic Ballast/ LED Driver; ⅛ HP Motor

OPERATIONS

- IntelliDAPT
- Self-adjusting timer
- Self-adjusting passive infrared (PIR) sensitivity
- Automatic false-ON/ false-OFF corrections
- No manual adjustments required
- Coverage
  - 1,000 square-foot, 180° coverage area
- Timer Settings
  - Auto mode: 4-30 minutes; self-adjusts based on occupancy
  - Fixed mode: 4, 8, 15, and 30 minutes
- Timer Settings (Continued)
  - Test mode: 5 seconds

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
- This product qualifies as “designated country construction material” per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 5/27/2020. See Buy American Solutions.

WARRANTY

- 5 year warranty
- See HCS Standard Warranty for additional information

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HUBBELL Lighting

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ORDERING GUIDE

Example: LHIRS0–N–WH–M–T

CATALOG #

Series		Buttons		–	Wiring		–	Color		–	Mode		–	TAA	
LHIRS	Passive Infrared Technology, Single Relay	**0**	0[1]		**G**	Ground (120/277V)		**WH**	White		**Blank**	Switchable Vacancy or Occupancy Mode		**Blank**	Standard Product
LHDCIRD	Passive Infrared Technology, Dual Relay (Two Inputs / Two Outputs)	**1**	1		**N**	Neutral (120/277V)		**IV**	Ivory		**M**	Vacancy Mode Only		**T**	TAA
		2	2[2]		**24V**	Low Voltage[3]		**LA**	Light Almond						
					G347	Ground (347V)		**GY**	Gray						
					N347	Neutral (347V)		**BK**	Black						

Notes:

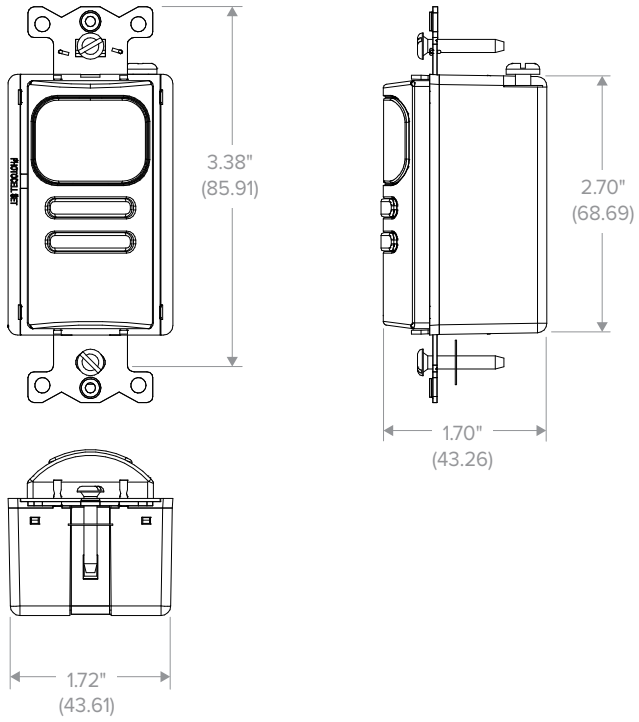
1 No button version not available with -M option

2 Two button option only available with LHDC model

3 Low voltage sensors require a power pack that is sold separately

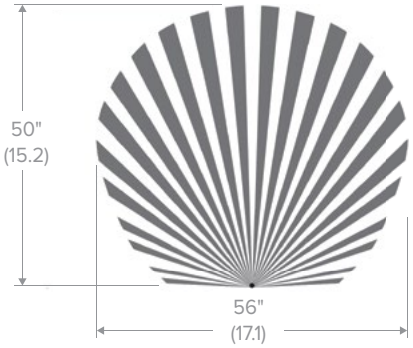
*Buy American Solutions
TAA FAR §52.225-11
LHIRS1-24V-WH
LHIRS1-G-WH
LHIRS1-N-WH

DIMENSIONS



ADDITIONAL INFORMATION

Coverage Pattern



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HUBBELL Lighting

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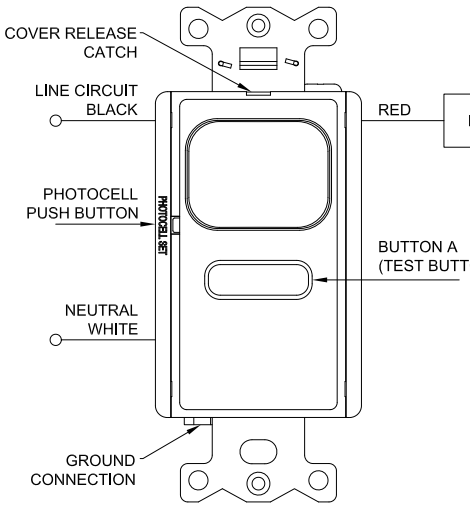
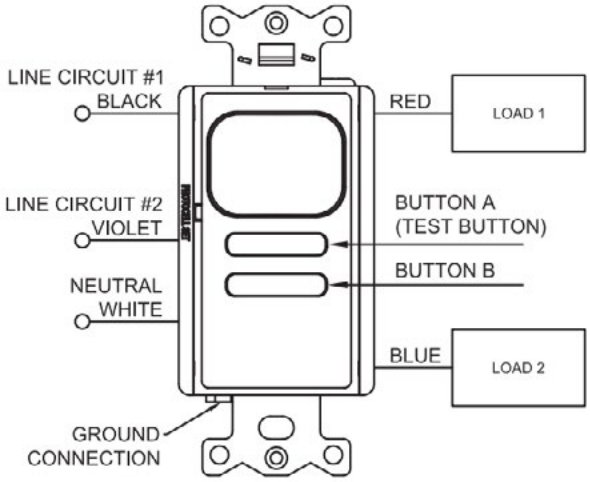
WALL SWITCH OCCUPANCY SENSORS

ADDITIONAL INFORMATION CONTINUED

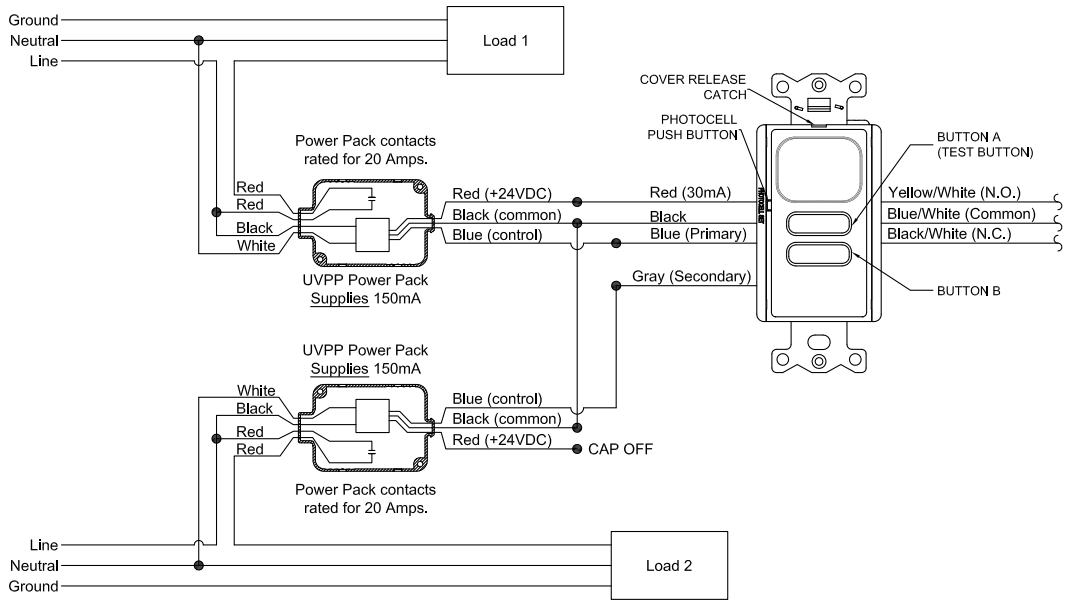
Wiring Diagrams



SINGLE LOAD WIRING



DUAL LOAD WIRING



LOW VOLTAGE DUAL LEVEL CONTROL WITH TWO POWER PACKS

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