



Building Automation, Inc.

## Wall Switch Occupancy Sensors

*LightHawk™ Ultrasonic*

*Wall Switch Sensor featuring IntelliDAPT®*

### KEY FEATURES

- All-digital ultrasonic (US) sensor
- IntelliDAPT self-adaptive technology—no manual adjustment required
- 2 relays for two-level switching or dual-circuit control
- Auto-on and manual-on operating modes (depending on model)
- 400 square-foot, 180° coverage area
- Built-in photocell with SuperSaver™ mode
- Dual 120/277 or 347 VAC operation
- No minimum load requirement
- Zero Arc Point Switching
- ETL, UL, and cUL listed
- Five-year warranty



LHUSSI



LHUSSO

### OVERVIEW

LHUSS sensors use ultrasonic (US) technology for unequaled occupancy detection and false trip immunity. These sensors feature Hubbell Building Automation's 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—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.

### FEATURES and BENEFITS

#### Features

IntelliDAPT technology

All-digital ultrasonic (US) sensor

Auto-on and manual-on operating modes (depending on model)

Tamper-proof automatic-only version available

Built-in photocell with optional SuperSaver mode

#### Benefits

- Sensor automatically determines optimum setting
- No manual sensitivity or timer adjustments required
- Provides a maintenance-free install-and-forget operation
- Superior US minor-motion detection
- Provides auto-on/auto-off and manual-on/auto-off operations
- Automatically turns lighting on and off without requiring the user to push a button
- Increases energy savings by preventing the lights from turning on when there is sufficient natural light
- Optional SuperSaver mode—turns lights off during periods of occupancy if there is enough natural light to illuminate the area

## SPECIFICATIONS

|                        |                                                                                                                                                                                                                              |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IntelliDAPT technology | <ul style="list-style-type: none"> <li>• Self-adjusting timer</li> <li>• Self-adjusting ultrasonic (US) sensitivity</li> <li>• Automatic false-on/false-off corrections</li> <li>• No manual adjustments required</li> </ul> |
| Timer timeout          | <ul style="list-style-type: none"> <li>• Auto mode: 4–30 minutes; self-adjusts based on occupancy</li> <li>• Fixed mode: 4, 8, 15, and 30 minutes</li> <li>• Test mode: 5 seconds</li> </ul>                                 |
| Ultrasonic (US) output | • 40kHz output                                                                                                                                                                                                               |
| Photocell              | • Natural-light override range: 10–500 foot-candles                                                                                                                                                                          |
| Coverage               | • 400 square-foot, 180° coverage area                                                                                                                                                                                        |
| Power requirements     | • 120/277 or 347 VAC; 50/60Hz                                                                                                                                                                                                |
| Electrical ratings     | <ul style="list-style-type: none"> <li>• 120VAC: 800W Incandescent; 1,000W Fluorescent; 1/6 HP</li> <li>• 277VAC: 1,800W Fluorescent; 1/6 HP</li> <li>• 347 VAC: 3,470W Fluorescent</li> </ul>                               |
| Load requirements      | • No minimum load                                                                                                                                                                                                            |
| Operating environment  | <ul style="list-style-type: none"> <li>• Indoor use only</li> <li>• Operating temperature: 32°–104°F (0°–40°C)</li> <li>• Relative humidity (non-condensing): 0–95%</li> </ul>                                               |
| Construction           | <ul style="list-style-type: none"> <li>• Casing—high-impact injection-molded plastic (UL-94-5V)</li> <li>• Color-coded leads are 6" long</li> </ul>                                                                          |
| Size and weight        | <ul style="list-style-type: none"> <li>• Size: 4.2" x 1.8" x 2.1"; .37" extension</li> <li>• Weight: 2.9 oz</li> </ul>                                                                                                       |
| Color                  | • White; Ivory; Light Almond; Gray; Black                                                                                                                                                                                    |
| Mounting               | <ul style="list-style-type: none"> <li>• Single-gang NEMA-style switch box (average switch box)</li> <li>• 347v unit mounts on a 347v wall box</li> <li>• (Decorator-style wall plate not included)</li> </ul>               |
| Certifications         | • ETL, UL, and cUL listed                                                                                                                                                                                                    |
| Warranty               | • Five years                                                                                                                                                                                                                 |

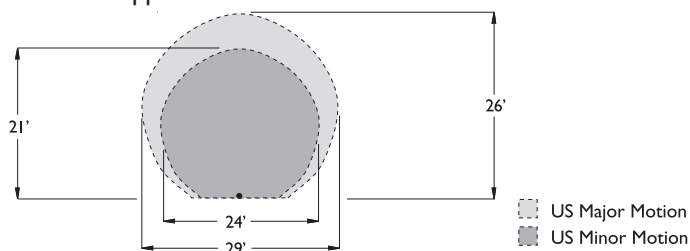
## ORDERING INFORMATION

| Catalog Number | Description                                                                             |
|----------------|-----------------------------------------------------------------------------------------|
| LHUSI*         | Ultrasonic Wall Switch Sensor with IntelliDAPT and Automatic/Manual Control, 120/277VAC |
| LHUS0*         | Ultrasonic Wall Switch Sensor with IntelliDAPT and Automatic Only Control, 120/277VAC   |
| LHUSIC*        | Ultrasonic Wall Switch Sensor with IntelliDAPT and Automatic/Manual Control, 347VAC     |
| LHUS0C*        | Ultrasonic Wall Switch Sensor with IntelliDAPT and Automatic Only Control, 347VAC       |

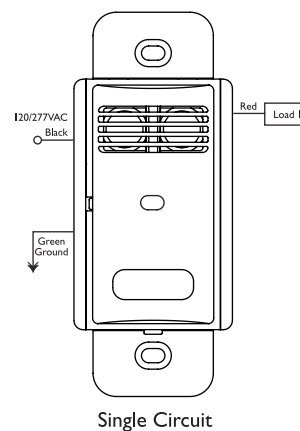
\* = W – White, I – Ivory, A – Light Almond, G – Gray, B – Black

## RANGE DIAGRAM

\*Refer to Application Guide.



## WIRING DIAGRAM



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