



Building Automation, Inc.

Wall Switch Occupancy Sensors

*LightHawk™ Passive Infrared Dual Circuit
Wall Switch Sensor featuring IntelliDAPT®*

KEY FEATURES

- All-digital passive infrared (PIR) sensor
- IntelliDAPT self-adaptive technology—no manual adjustment required
- 2 relays for either two-level switching or dual-circuit control
- Auto-on and manual-on operating modes (depending on model)
- 1,000 square-foot, 180° coverage area
- Built-in photocell with SuperSaver™ mode
- RhinoTuff™ lens
- Dual 120/277 or 347 VAC operation
- No minimum load requirement
- Zero Arc Point Switching
- ETL, UL, and cUL listed
- California Title 24 compliant
- Five-year warranty



LHIRD2



LHIRD0

OVERVIEW

LHIRD sensors use passive infrared (PIR) technology for unequaled occupancy detection and false trip immunity. The sensors, designed for dual-level lighting applications, possess 2 primary circuits (each with independent switching).

LHIRD 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, LHIRD sensors are the best choice in today's market place.

FEATURES and BENEFITS

Features

IntelliDAPT technology

All-digital passive infrared (PIR) sensor

2 relays for either two-level switching or dual-load control

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

Tamper-proof automatic-only version available

RhinoTuff lens

Built-in photocell with optional SuperSaver mode

Benefits

- Sensor automatically determines the ideal setting for an area
- No manual sensitivity or timer adjustments required
- Provides a maintenance-free install-and-forget operation
- Excellent long-range major-motion detection
- Controls 2 circuits independently
- 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
- Impact-resistant infrared (IR) lens
- Increases energy savings by preventing 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	- Self-adjusting timer - Self-adjusting passive infrared (PIR) sensitivity - Automatic false-on/false-off corrections - No manual adjustments required
Timer timeout	- Auto mode: 4–30 minutes; self-adjusts based on occupancy - Fixed mode: 4, 8, 15, and 30 minutes - Test mode: 5 seconds
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	120/277 or 347 VAC; 50/60Hz
Electrical ratings	120 VAC: 800W Incandescent; 1,000W Fluorescent; 1/6 HP 277 VAC: 1,800W Fluorescent; 1/6 HP 347 VAC: 3,470W Fluorescent
Load requirements	None
Operating environment	- Indoor use only - Operating temperature: 32°–104°F (0°–40°C) - Relative humidity (non-condensing): 0%–95%
Construction	- Casing—high-impact injection-molded plastic (UL-94-5V) - Impact-resistant lens - Color-coded leads are 6" long
Size and weight	- Size: 4.2" x 1.8" x 2.1"; .37" extension - Weight: 2.9 oz
Color	White; Ivory; Light Almond; Gray; Black
Mounting	- Single-gang NEMA-style switch box (average switch box) 347v unit mounts on a 347v wall box - Decorator-style wall plate not included
Certifications	ETL, UL, and cUL listed

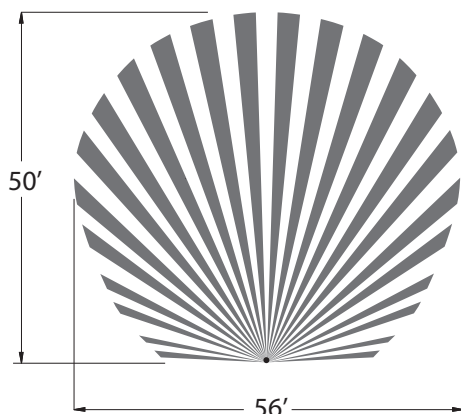
ORDERING INFORMATION

Catalog Number	Description
LHIRD2*	Passive Infrared Dual Circuit Wall Switch Sensor with IntelliDAPT and Automatic/Manual Control, 120/277VAC
LHIRD0*	Passive Infrared Dual Circuit Wall Switch Sensor with IntelliDAPT and Automatic Only Control, 120/277VAC
LHIRD2C*	Passive Infrared Dual Circuit Wall Switch Sensor with IntelliDAPT and Automatic/Manual Control, 347VAC
LHIRD0C*	Passive Infrared Dual Circuit Wall Switch Sensor with IntelliDAPT and Automatic Only Control, 347VAC

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

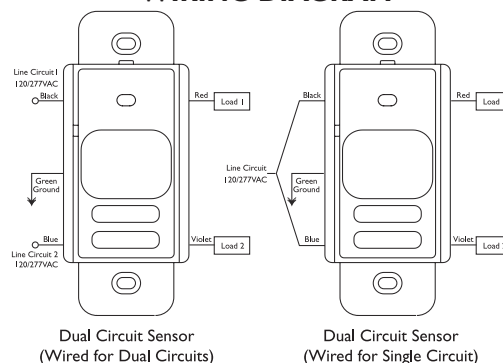
RANGE DIAGRAM

*Refer to Application Guide.



■ IR Motion

WIRING DIAGRAM



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