

## OVERVIEW

Long narrow PIR detection for control of hallway lighting is provided by the HW13 Series sensor. Applied in pairs and mounted at either end of a long corridor, the HW13 detects occupants entering the hallway up to 130 ft (39.62 m) away (when mounted at 10 ft (3.05 m)). Detection at these distances is for entrances at right angles to the beam pattern. The HW13 may also be used with other low voltage sensors to adequately view a space. For example, a CM 10 ceiling sensor may be in a vestibule at one end while the HW13 is at the other. The HW13 is best mounted at 7 ft (2.13 m).

## FEATURES

- 100% Digital PIR detection, excellent RF immunity
- Coverage up to 130 ft (39.62 m) when mounted at 10 ft (3.05 m)
- Push button programmable
- Adjustable time delays
- Convenient test mode
- No field calibration or sensitivity adjustments required
- 100 hr lamp burn-in timer

## SPECIFICATIONS

Size: 3.0" H x 3.6" W x 1.75" D (7.62 cm x 9.14 cm x 4.45 cm)

Mounting: Directly to wall or to ceiling using WV BR bracket

Color: White

Maximum Load(per pole):12-24 VAC/VDC

Current Draw: Standard, 4 mA w/ R option, 16mA

Rcmd Power Pack: PP20

ROHS compliant

## Warranty

Five-year limited warranty. Complete warranty terms located at:

[www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

**Note:** Actual performance may differ as a result of end-user environment and application.

Specifications subject to change without notice.

**AcuityControls**<sup>™</sup>

*Sensor Switch*<sup>™</sup>

**HW13**

*Hallway Sensor*



## ORDERING INFORMATION

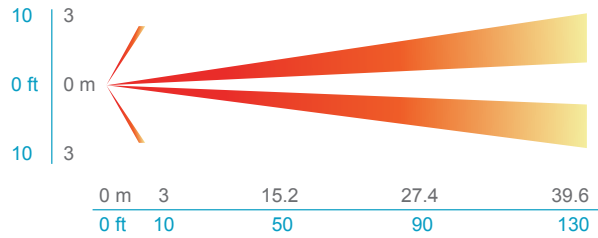
| HW13                |                                     | Example: HW13 R LT          |                                 |
|---------------------|-------------------------------------|-----------------------------|---------------------------------|
| Series              | Relay                               | Photocell                   | Temp/Humidity                   |
| HW13 Hallway Sensor | [blank] none<br>R Low voltage relay | [blank] none<br>P Photocell | [blank] Standard<br>LT Low temp |

## COVERAGE PATTERN

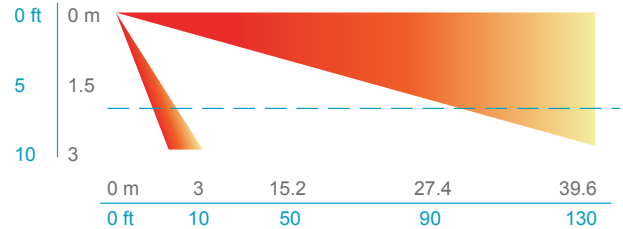
### HALLWAY VIEW LENS

- Provides large motion (e.g. **walking**) detection up to 70 ft (21.34 m) when mounted at 7 ft (2.13m).
- Up to 130 ft (39.62 m) linear coverage when mounted at 10 ft (3.05 m).
- Recommended for use in pairs with one at either end of hallway.

#### TOP VIEW



#### SIDE VIEW



## WIRING (DO NOT WIRE HOT)

### STANDARD WIRING

**RED** - Power Input (12-24 VAC/VDC)

**BLACK** - Common

**WHITE** - Occupancy State (high VDC for occupied)

### PHOTOCELL/DIMMING OPTIONS (P)

**BLUE** - Direct output to power pack for providing photocell control. Output is high VDC with occupancy & low light. For multi-level control, use two power packs and connect White wire to primary load and Blue to daylight load.

### RELAY OPTION (R)

**GRAY / BROWN** - Connected during occupied state

**VIOLET / BROWN** - Connected during unoccupied state

**Note:** Relay is energized during unoccupied state

