



# HBA WASP2™

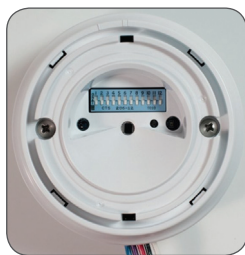
## LED HIGH BAY OCCUPANCY SENSORS

The HBA WASP2 LED High Bay Occupancy Sensor is specifically designed for ON/OFF control of high bay fixtures in warehouses, distribution centers and even in offices. The sensor is available in end mount and surface mount versions with either single or dual outputs. All WASP2 sensors feature a daylight sensor which can be used to increase energy savings by turning off lights when there is sufficient natural light.

### Key features

- IntelliDAPT self-adaptive technology – no manual adjustment required
- All-digital ultrasonic (US) technology
- Non-volatile memory for sensor settings
- 92 – 185 square-metre coverage area (depending on model)
- Optional relay and photocell control
- Quick to Install (QTI) connector
- Uses UVPP Power Pack - not included

### Lens options (ordered separately)



Surface mount



End mount



Area Lens



Aisle Lens



Half Aisle Lens



180° Area Lens



## Specifications

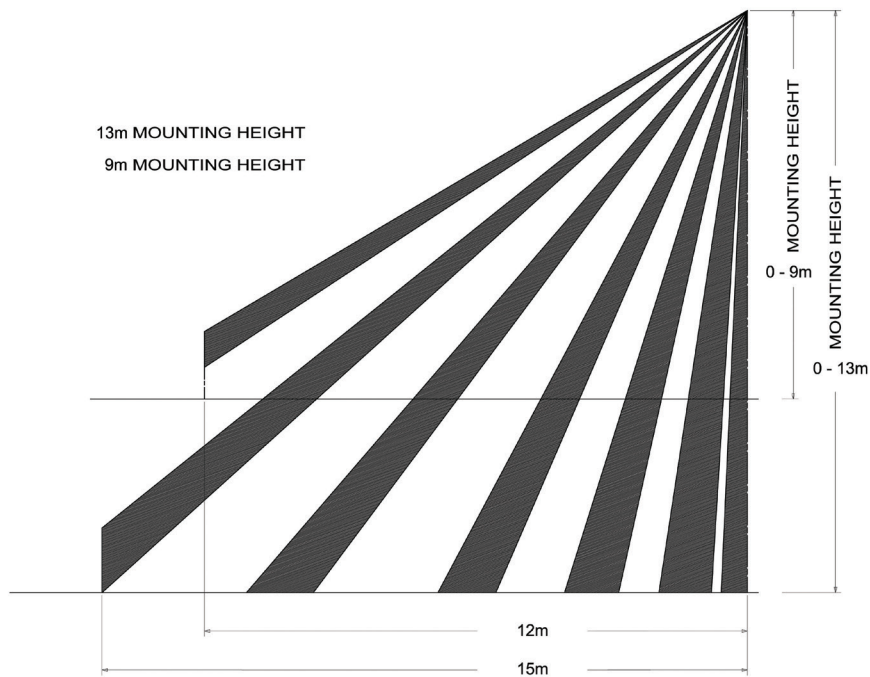
<b>Load ratings (Line voltage sensors)</b>	120VAC: 0-800W ballast or 0-600W tungsten, 60Hz 277VAC: 0-1200W ballast 347VAC: 0-1500W ballast 208/240VAC: 0-1200W ballast 480VAC: 0-2400W ballast QuarterHP motor load @ 120VAC, 1/6HP @ 347VAC
<b>User interface</b>	Twelve pin dip switch *
<b>Timer timeout</b>	Primary: 8 second test mode - 4, 8, 16 and 30 min timeouts Secondary: Can be disabled (switches off with primary timer) - 30, 60 and 90 min timeouts
<b>Passive infrared</b>	Dual element pyrometer and spherical Fresnel lens designed for robust detection of a walking person *
<b>Daylight Sensor</b>	Range 300 - 25 000 LUX End mount sensor: Downward and upward looking daylight sensors (Direction selectable via dip switch) Surface mount sensor: Downward looking daylight sensor only
<b>Interchangeable lens options and coverage</b>	Lens option: 360° area lens, aisle lens, half aisle lens and 180° area lens (lenses sold separately - not included with sensor module) All lenses provide 1.4:1 coverage up to 9m, 1.1:1 coverage 9m-13m
<b>Power requirements</b>	Line Voltage sensors: 120/277/347 VAC Low voltage: 24 VDC, 33mA
<b>Output</b>	24 VDC active high-logic control signal with short circuit protection and optional dry contact
<b>Operating environment</b>	Standard version: Indoor use only Operating temperature: 0° - 65°C 0% to 95% relative humidity, non-condensing Low temperature/Water tight version: Indoor use only
<b>Construction</b>	Sensor Module and Lens Assembly - high impact, injection-molded plastic
<b>Size and weight</b>	<b>Size:</b> 101.6mm diameter, 38.1mm height <b>Weight:</b> 198g
<b>Colour</b>	White
<b>Mounting</b>	Surface mount sensor: Mounts directly to fixture or j-box via 2 x 31.75mm stainless steel screws and locking nuts End mount sensor: Mounts directly to end of fixture through extended chase nipple
<b>Warranty</b>	5 years

**Note:**

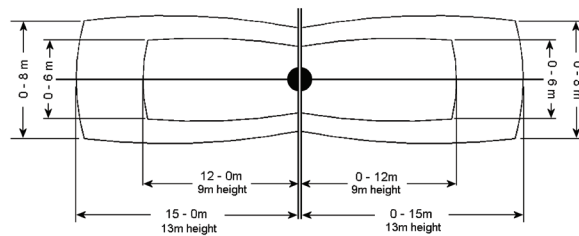
\* When used with warm start ballast, a 1-2 second delay from occupancy detection to lamp turn-on may be experienced.



## Sensor Lens Coverage and Detection Patterns (when mounted at 9m and 13m)



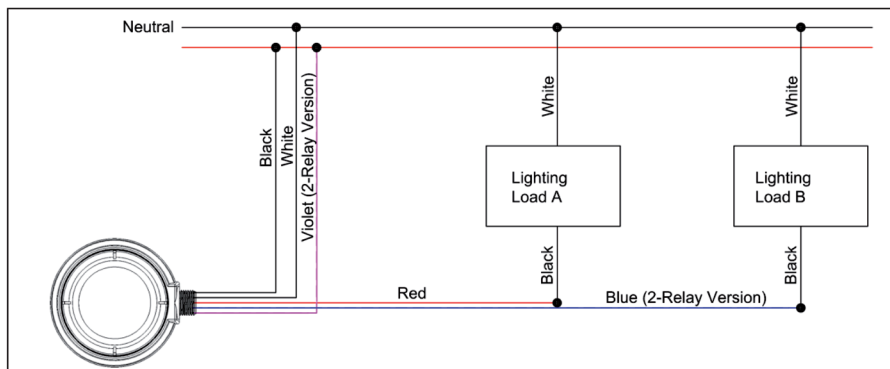
Side view of lens coverage pattern



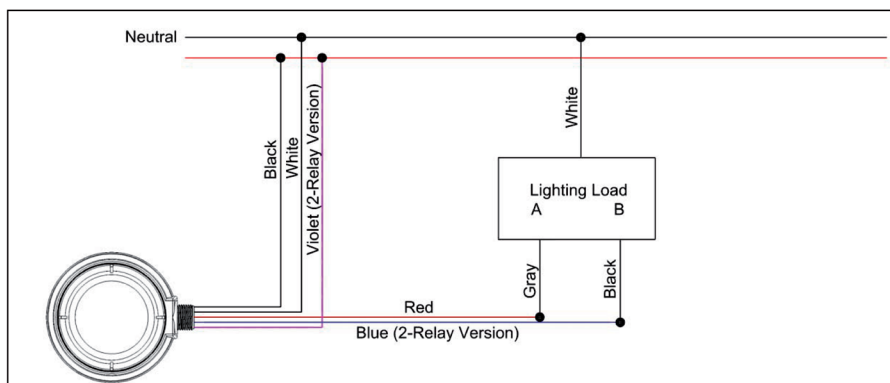
Top view of aisle lens coverage pattern



## Wiring Diagram

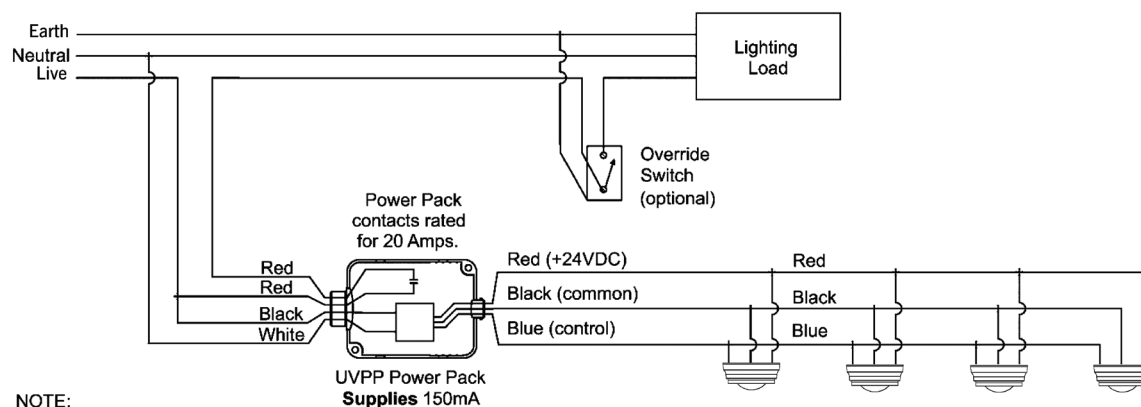


**Wiring Diagram A** - 120/277/347VAC Line voltage wiring diagram for single and dual relay sensors (Single Phase Only)



**Wiring Diagram A -B** 120/277/347VAC Line voltage wiring diagram for connecting a dual relay sensor to a switching ballast.

Note: Disable Smart Cycling for this configuration.



**NOTE:**

1. DO NOT attempt to power more than 4 devices (sensors or slave packs) from a single power pack.

Hubbell Building Automation  
Low Voltage Sensors (devices)  
**Requires 33mA each**

**Wiring Diagram C** - Low voltage sensor wiring diagram.