



## High Bay Occupancy Sensors and Controllers

### HBA WASP — Fluorescent High Bay Occupancy Sensor

#### KEY FEATURES

- Digital passive infrared (PIR) sensor
- Low-profile design
- Multiple (single and dual) output versions
- Unique Smart Cycling™ for improved lamp life
- Single and dual timer operation
- Zero Arc Point Switching
- Supports mounting heights up to 40 ft.
- Area and aisle coverage
- No minimum load
- Universal voltage—120/277/347 VAC
- ETL, UL, cUL, and Title 24 compliant
- 5-year warranty



#### OVERVIEW

The HBA WASP Fluorescent High Bay Occupancy Sensor provides the most advanced and accurate passive infrared (PIR) sensor technology for unequaled occupancy detection and false trip immunity. It is specifically designed for ON/OFF control of high bay fluorescent fixtures in warehouses, distribution centers, and similar facilities. The sensor easily mounts directly to industrial T5HO and T8 fixtures through an extended ½-inch chase nipple. The specially designed PIR lens provides 1.4:1 coverage up to 40 feet. For deep body fluorescent fixtures, an extension adapter is also available for positioning the sensor flush or below the bottom of the reflector for full field of view coverage.

This sensor is available with either single or dual outputs, making it the perfect solution for single or multiple-ballast fixtures. The single output sensor features a primary timer for ON/OFF control for maximum energy savings. The dual output sensor features two timers for multiple light level control (i.e. step dimming). The dual output sensor also includes Smart Cycling technology which maximizes lamp and ballast life by ensuring that all lamps receive the same number of switching cycles.

#### FEATURES and BENEFITS

##### Features

Multiple (single and dual) output versions  
Smart Cycling

Single and dual timer operation

Zero Arc Point Switching (Patent #5,821,642)

##### Benefits

- Provides control of single- or multiple-ballast fixtures
- Maximizes lamp and ballast life in multiple-ballast fixtures by ensuring that all lamps receive the same number of switching cycles
- Provides multiple light-level control
- Enables step dimming
- Minimizes relay-contact wear from high inrush loads

#### APPLICATIONS

- Warehouses
- Distribution centers

## SPECIFICATIONS

User interface	<ul style="list-style-type: none"><li>• 2 four-pin dip switches</li></ul>
Timer timeouts	<ul style="list-style-type: none"><li>• Primary:<ul style="list-style-type: none"><li>- 8-second test mode</li><li>- 4, 8, 16, and 30 minute timeouts</li></ul></li><li>• Secondary:<ul style="list-style-type: none"><li>- Can be disabled</li><li>- 30, 60, and 90 minute timeouts</li></ul></li></ul>
Passive infrared Coverage	<ul style="list-style-type: none"><li>• Dual element pyrometer and spherical Fresnel lens</li><li>• 360° (includes masking kit)</li><li>• Lens: 1.4–42 foot radius; mounted @ 30 ft.</li></ul>
Load ratings (line voltage units)	<ul style="list-style-type: none"><li>• 120VAC: 0–800W ballast or tungsten</li><li>• 277VAC: 0–1,200W ballast</li><li>• 347VAC: 0–1,500W ballast</li><li>• ¼-HP motor load</li></ul>
Power requirements	<ul style="list-style-type: none"><li>• Line voltage units: 120/277/347 VAC, 60 Hz</li></ul>
Operating environment	<ul style="list-style-type: none"><li>• Indoor use only</li><li>• Operating temperature (standard version): 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</li></ul>
Size and weight	<ul style="list-style-type: none"><li>• Size: 4.4" x 3.6" x 2.0"</li><li>• Weight: 7 oz.</li></ul>
Color	<ul style="list-style-type: none"><li>• White</li></ul>
Mounting	<ul style="list-style-type: none"><li>• Mounts directly to the end of a fixture through an extended ½" chase nipple</li><li>• For deeper body fixtures, an optional Extender Adapter (available separately) positions the sensor flush or below the bottom of the reflector for a full field of view.</li></ul>
Certifications	<ul style="list-style-type: none"><li>• ETL, UL, cUL and Title 24 compliant</li></ul>
Warranty	<ul style="list-style-type: none"><li>• 5 years</li></ul>

## HOW TO ORDER

Catalog Number	Description
FHBI4INPUNV	Fluorescent High Bay Passive Infrared Sensor with 1.4 area lens, 1-SPST Output, 120-347 VAC, White
FHBI42NPUNV	Fluorescent High Bay Passive Infrared Sensor with 1.4 area lens, 2-SPST Outputs, 120-347 VAC, White
FHBADAPTOR	Fluorescent High Bay Mounting Extension Adapter



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