



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.
- Photosensor version available for daylight harvesting
- Low-voltage and line-voltage (120/277/347VAC) versions available
- Certified to UL916 standards
- 5-year warranty



OVERVIEW

The HBA WASP Fluorescent High Bay Occupancy Sensor provides the most advanced and accurate passive infrared (PIR) sensor technology for unequalled 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. A built-in photosensor is also available for automatic daylight harvesting.

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)

Optional Built-in Photosensor

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

- Increases energy savings by turning off lights when there is sufficient natural light

APPLICATIONS

- Warehouses
- Distribution centers

SPECIFICATIONS

Photosensor Range (Photosensor version only)	<ul style="list-style-type: none">• 50-3000FC
User interface	<ul style="list-style-type: none">• 2 four-pin dip switches (standard version)• 3 four-pin dip switches (photosensor version)
Timer timeouts	<ul style="list-style-type: none">• Primary:<ul style="list-style-type: none">- 8-second test mode- 4, 8, 16, and 30 minute timeouts• Secondary:<ul style="list-style-type: none">- Can be disabled- 30, 60, and 90 minute timeouts
Passive infrared Coverage	<ul style="list-style-type: none">• Dual element pyrometer and spherical Fresnel lens• 360° (includes masking kit)• Lens: 1.4-42 foot radius; mounted @ 30 ft.
Load ratings (line voltage units)	<ul style="list-style-type: none">• 120VAC: 0-800W ballast or tungsten• 277VAC: 0-1,200W ballast• 347VAC: 0-1,500W ballast• ¼-HP motor load
Power requirements	<ul style="list-style-type: none">• Line voltage units: 120/277/347 VAC, 60 Hz
Operating environment	<ul style="list-style-type: none">• Indoor use only• Operating temperature (standard version): 32°-149° F (0°-65° C)• Relative humidity (non-condensing): 0%-95%
Construction	<ul style="list-style-type: none">• Casing—high-impact injection-molded plastic
Size and weight	<ul style="list-style-type: none">• Size: 4.4" x 3.6" x 2.0"• Weight: 7 oz.
Color	<ul style="list-style-type: none">• White
Mounting	<ul style="list-style-type: none">• Mounts directly to the end of a fixture through an extended ½" chase nipple• 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.
Certifications	<ul style="list-style-type: none">• Conforms to UL STD 916, Certified to CAN/USA STD 22.2 No. 61010-1-04
Warranty	<ul style="list-style-type: none">• 5 years

HOW TO ORDER

Catalog Number	Description
FHBI40NP24V	HBA Wasp Fluorescent High Bay Sensor with 1.4 area lens, 24VDC (UVPP or MP Series Power Pack required), White
FHBI41NPUNV	HBA Wasp Fluorescent High Bay Sensor with 1.4 area lens, 1-SPST Output, 120-347 VAC, White
FHBI42NPUNV	HBA Wasp Fluorescent High Bay Sensor with 1.4 area lens, 2-SPST Outputs, 120-347 VAC, White
FHBI40PS24V	HBA Wasp Fluorescent High Bay Sensor with 1.4 area lens, Photosensor, 24VDC (UVPP or MP Series Power Pack required), White
FHBI41PSUNV	HBA Wasp Fluorescent High Bay Sensor with 1.4 area lens, 1-SPST Output, Photosensor, 120-347VAC, White
FHBI42PSUNV	HBA Wasp Fluorescent High Bay Sensor with 1.4 area lens, 2-SPST Output, Photosensor, 120-347VAC, White
FHBADAPTOR	HBA Wasp Fluorescent High Bay Mounting Extension Adapter



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