



High Bay Occupancy Sensors and Controllers

HBA WASP2™ - Fluorescent High Bay Occupancy Sensor



KEY FEATURES

- Digital Passive Infrared (PIR) sensor
- Supports mounting heights up to 45 ft.
- Multiple (single and dual) output versions
- End mount and surface mount versions
- Unique Smart Cycling™ for improved lamp life
- Interchangeable area and aisle lens options
- Daylight sensor for daylight harvesting applications
- Low voltage and line voltage (120/277/347VAC, 208/480VAC, 480VAC) models available
- Low-temperature (-40°C)/water-tight versions available
- UL and cUL listed
- Five-year warranty



End Mount WASP2 Sensor with lens



WASP2 Lenses

OVERVIEW

The HBA WASP2 Fluorescent High Bay Occupancy Sensor is specifically designed for ON/OFF control of high bay fluorescent fixtures in warehouse, distribution centers and similar facilities. 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.

SPECIFICATIONS

Power Requirements	<ul style="list-style-type: none"> • Line Voltage sensors: 120/277/347VAC, 208/240VAC, 480VAC, 60 Hz • Low Voltage sensors: 24VDC (uses UVPP or MP-Series power pack – not included)
Load Ratings (Line voltage sensors)	<ul style="list-style-type: none"> • 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 • ¼ HP motor load @ 120VAC, 1/6HP @ 347VAC
Output (Low voltage sensors)	<ul style="list-style-type: none"> • 24VDC active high-logic control signal • Relay: N/O + N/C contacts; 500mA rated @ 24VDC; three wire isolated relay
User Interface	<ul style="list-style-type: none"> • (1) Twelve pin dip switch
Timer Timeouts	<ul style="list-style-type: none"> • Primary: 8-second test mode - 4, 8, 16 and 30 minute timeouts • Secondary: Can be disabled (switches off with primary timer) - 30, 60 and 90 minute timeouts
Passive Infrared	<ul style="list-style-type: none"> • Dual element pyrometer and spherical Fresnel lens designed for robust detection of a walking person.*
Daylight Sensor	<ul style="list-style-type: none"> • Range: 30 – 2500FC • End mount sensor: Downward and upward looking daylight sensors (Direction selectable via dip switch) • Surface mount sensor: Downward looking daylight sensor only
Interchangeable Lens Options and Coverage	<ul style="list-style-type: none"> • Lens options: 360° area lens, aisle lens, 180° area lens, half aisle lens (Lenses sold separately – not included with sensor module) • All lenses provide 1.4:1 coverage up to 30ft., 1.1:1 coverage from 30 – 45ft.
Operating environment	<ul style="list-style-type: none"> • Standard version: Indoor use only; Operating temperature: 32° to 149°F (0° to 65°C); Relative humidity (non-condensing): 0% to 95% • Low-temperature/Water-tight version: Indoor use only; Operating temperature: -40° to 149°F (-40° to 65°C)
Construction	<ul style="list-style-type: none"> • Sensor Module and Lens Assembly – high impact, injection-molded plastic

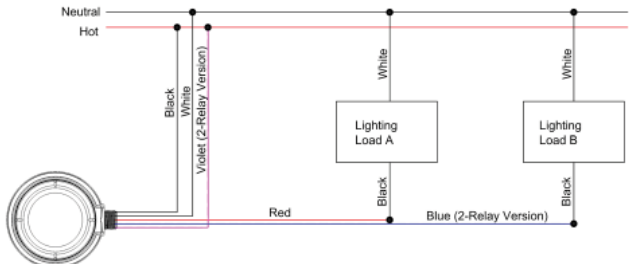
Size & Weight	<ul style="list-style-type: none"> Size: 4.0" Diameter x 1.5" Height Weight: 7 oz.
Color	<ul style="list-style-type: none"> White
Mounting	<ul style="list-style-type: none"> End mount sensor: Mounts directly to end of fixture through extended 1/2" chase nipple. For deeper body fixtures, an optional Extender Adapter (available separately) positions the sensor flush or below the bottom of the reflector for a full field-of-view. Surface mount sensor: Mounts directly to fixture or j-box via (2) 1.25" stainless steel screws and locking nuts
Certifications	<ul style="list-style-type: none"> Conforms to UL STD 508, UL STD 244A Conforms to IP65 (Low-temperature/Water-tight version)
Warranty	<ul style="list-style-type: none"> Five years

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

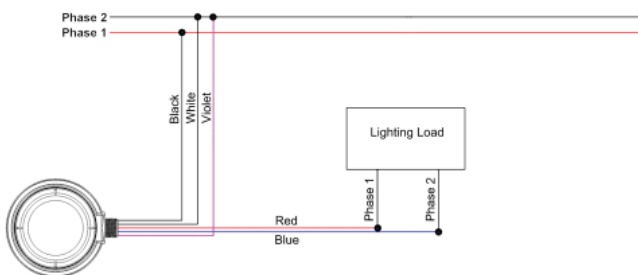
ORDERING INFORMATION

Sensors	MODEL	MOUNTING	INPUT VOLTAGE / OUTPUTS	LOW-TEMP / WATER-TIGHT
	WSP	EM - End Mount SM - Surface Mount	UNV - 120/277/347VAC UNV2R - 120/277/347VAC (2 Outputs) 208 - 208/240VAC 480 - 480VAC 24V - 24VDC (Low Voltage)	Blank - Standard Version LTWT - Low-Temp/Water Tight
Lens	MODEL	COVERAGE	LOW-TEMP / WATER-TIGHT	
	WSPLENS	360 - 360° Area Lens AISLE - Aisle Lens HALF - 180° Area Lens HAISLE - Half Aisle Lens	Blank - Standard Version LTWT - Low-Temp/Water-Tight (For use with LTWT sensor module)	

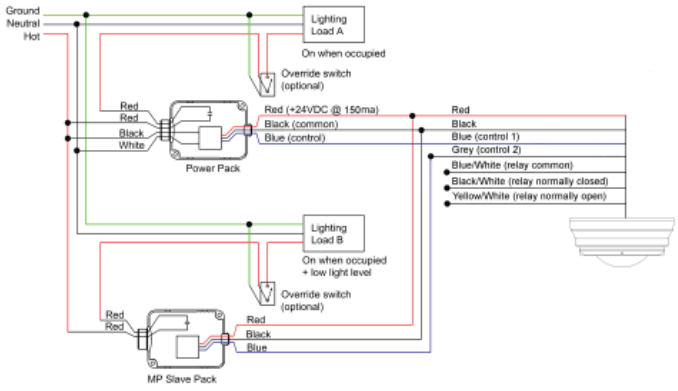
WIRING DIAGRAMS



120/277/347VAC Line voltage wiring diagram for single and dual relay sensors (Single Phase Only).

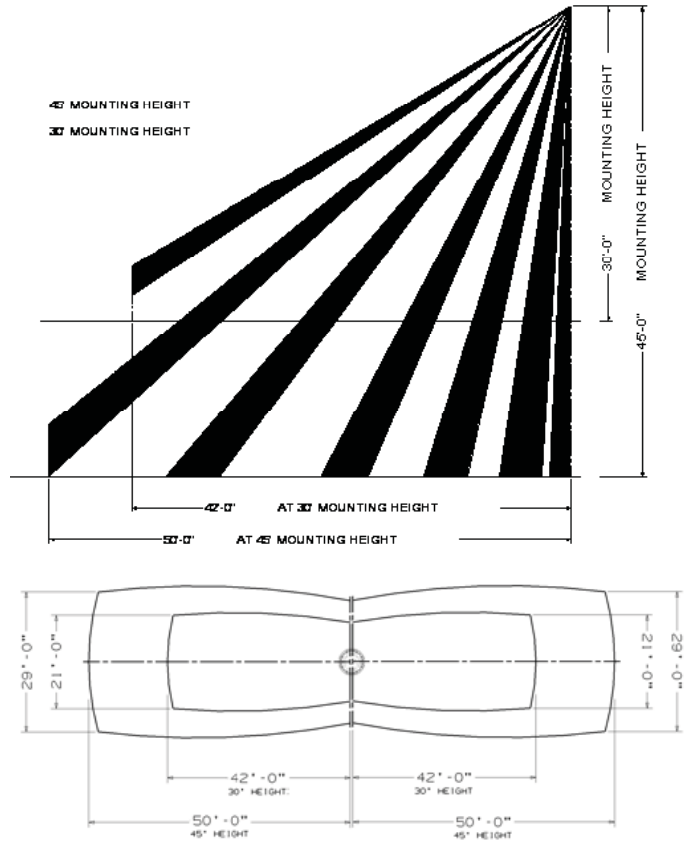


208/240VAC & 480VAC Line voltage wiring diagram.



Low voltage sensor wiring diagram.

RANGE DIAGRAMS



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