



Project Name \_\_\_\_\_

Catalog No. \_\_\_\_\_ Date \_\_\_\_\_

The Dimming WASP Indoor/Outdoor Occupancy Sensor is specifically designed to provide 0-10V (Class 1) control of dimmable fixtures. Easy to use dip switches allow the user to set unoccupied and occupied dimming levels. The sensor is available in end mount and surface mount versions in both line and low voltage options. Interchangeable twist-on lenses eliminate need for field masking. All Dimming WASP sensors feature a daylight sensor for On/Off control of fixtures when there is sufficient natural light.

The gasketed design of the enclosure makes it impervious to dust and able to withstand water ingress making it an ideal sensor for outdoor and wet locations including those with temperatures as low as -40° F/C.

**Product Features**

- Digital Passive Infrared (PIR) sensor
- Supported mounting heights:
  - High mount lens: 30 ft (9.14m) outdoors; 45 ft (13.72m) indoors
  - Low mount lens: 16 ft (4.88m) indoors/outdoors
- Controls 0-10V dimmable ballasts
- User controlled dimming presets
- Daylight sensor for daylight harvesting applications
- End mount and surface mount versions
- Interchangeable high/low area detection lens options
- Low voltage and line voltage models available
- Low temperature/water-tight/indoor-outdoor versions
- Withstands low temperature and conforms to IP65 water-tight standards
- UL and cUL listed
- Five-year limited warranty

**Compliance and Certification**



**Dimensional Data**



**Ordering Information**

Example: *WSP*EMUNVLWO-D-BK

SENSOR MODEL	ENVIRONMENT	MOUNTING	INPUT VOLTAGE	DIMMING	COLOR
WSP	(Blank) Standard Version	EM End Mount	24V 24VDC (Low Voltage)	D 0-10V Dimming	(Blank) White
LWO	Low-Temp/Water Tight/Indoor/Outdoor	SM Surface Mount	UNV 120/277/347VAC		BK Black
			208 208/240VAC		GY Gray
			480 480VAC		

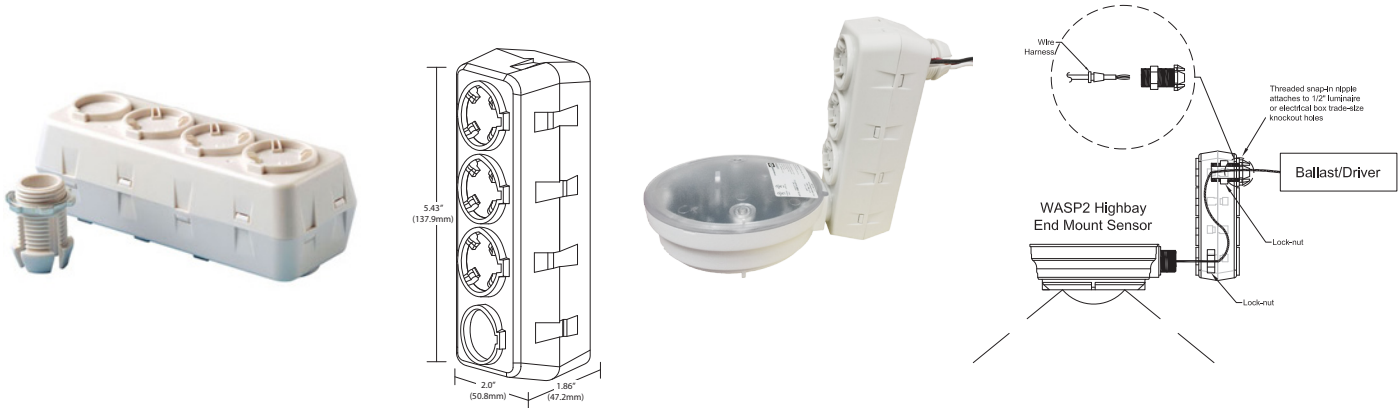
For available lens options and ordering information, reference the WASP™2 Occupancy Sensor Lens Specification Sheet.

Accessories

The Optional WSPADAPTOR2 offset adaptor can be used to improve the field of view for fixture mounted sensors where the geometry of the fixture might otherwise interfere with the sensor's performance. The adapter snaps into a standard 1/2" (12.7mm) knockout on the end of the fixture and provides several mounting position choices for the sensor.

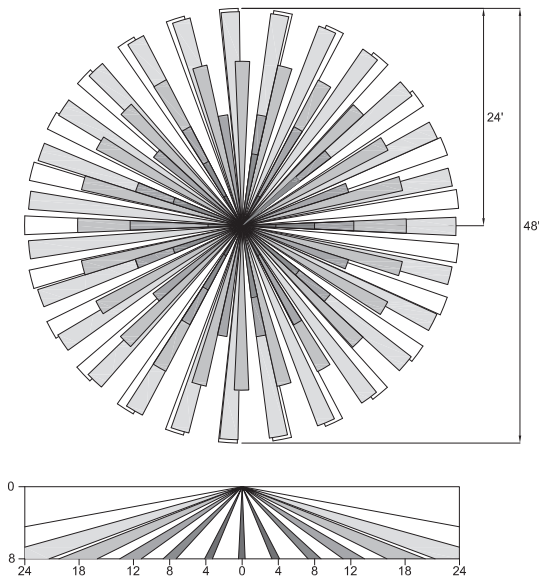
Ordering Information

<b>MODEL</b>
<b>WSPADAPTOR2</b>

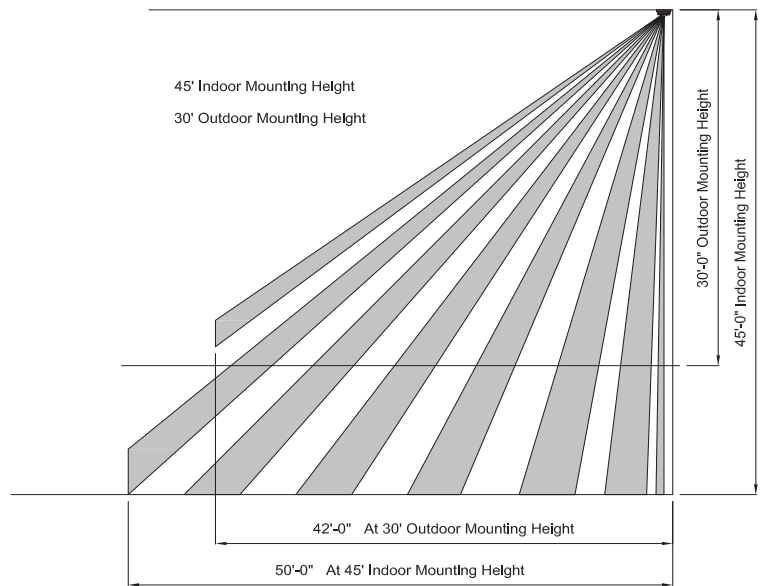


Coverage Pattern

Sensor Lens Coverage and Detection Patterns When Mounted at 8ft with Low Mount Lens

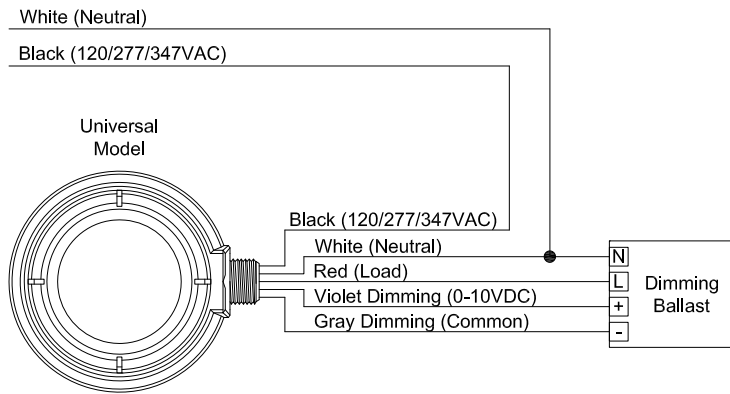


Sensor Lens Coverage and Detection Patterns When Mounted at 30ft and 45ft with Standard Lens

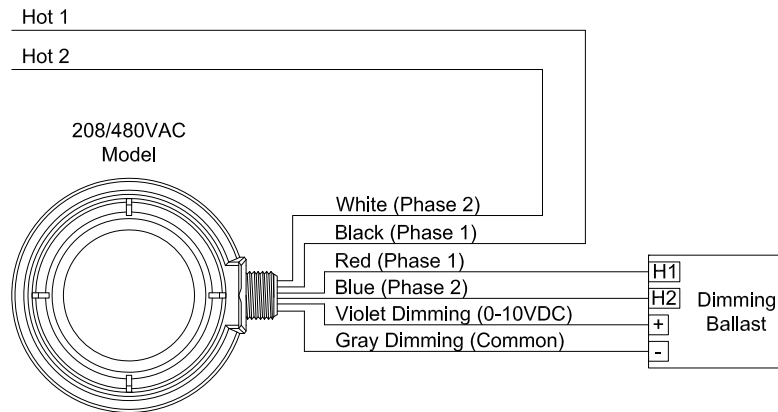


Wiring Diagrams

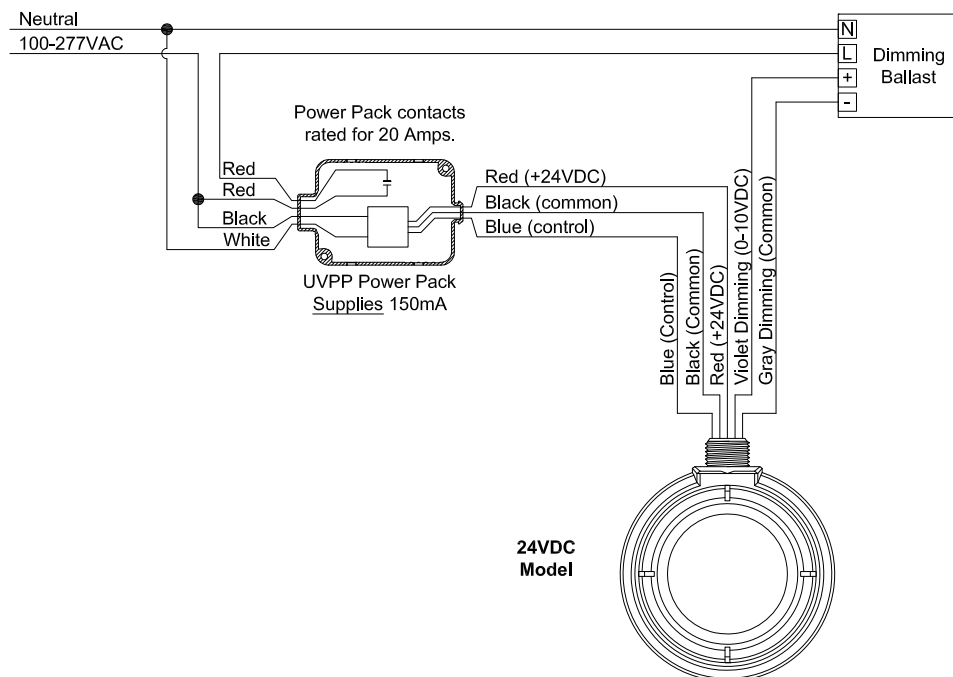
120/277/347VAC Dimming WASP  
Wiring Diagram



208/240 & 480VAC Dimming WASP  
Wiring Diagram



24V Dimming WASP  
Wiring Diagram



## General Specifications

Power Requirements	Line Voltage sensors: 120/277/347VAC, 208/240VAC, 480VAC, 50/60Hz Low Voltage sensors: 24VDC (uses UVPP or MP-series power pack – not included)
Load Ratings	120VAC: 0-800W ballast or 0-600W tungsten, 60Hz
(Line Voltage sensors)	277VAC: 0-1200W ballast 347VAC: 0-1500W ballast 208/240VAC: 0-1200W ballast 480VAC: 0-2400W ballast ¼ HP motor load @ 120VAC, 1/6 HP @ 347VAC
0-10V Dimming	Capable of sinking up to 30mA
Output (Low voltage sensors)	24VDC active high-logic control signal Relay: N/O + N/C contacts; 500mA rated @ 24VDC
User Interface	Twelve pin dip switch for initial choice of functionality
Time Delay Before Dimming	8-second test mode – 4, 8, 16 and 30 minute timeouts
Dimming Presets	Unoccupied: 70%, 60%, 50%, 20%
Full Off Timer Delay	Enabled: After 60 minutes in the Unoccupied low level state, sensor will turn lighting off Disabled: Sensor will maintain low level setting when there is no occupancy
Passive Infrared	Dual element pyrometer and spherical Fresnel lens designed for robust detection of walking person* *When used with program start ballasts, a 1-2 second delay from occupancy detection to lamp turn-on may occur
Daylight Sensor	Range: 1 to 50FC or 5 to 500FC End mount sensor: Downward and upward facing daylight sensor (direction selectable via dip switch) Surface mount sensor: Downward facing daylight sensor only
Interchangeable Lens Options and Coverage	Lens options: (Lenses sold separately – not included with sensor module) Low Mount/High Mount Indoor/Outdoor Coverage: 360°, 180°, Aisle, Half Aisle
Operating environment	Indoor/outdoor use Operating temperature: - 40°F to 149°F (-40°C to 65°C)
Construction	Sensor Module and Lens Assembly: high-impact, injection-molded plastic
Dimensions	Ø4.0" X 1.5" H (Ø101.6mm X 38.1mm H)
Weight	7 oz. (198.45g)
Color	White, Black, Gray
Mounting	End mount sensor: 1/2" (12.7mm) chase nipple Optional extender adaptor (available separately) Surface mount sensor: Mounts directly via (2) 1.25" (31.75mm) stainless screws and locking nuts
Certifications	Conforms to UL STD 508, UL STD 244A LWO version conforms to IP65
Warranty	Five-year limited