

TITLE  
**24**  
COMPLIANCE



# IP65

## DIMMING WASP™



End Mount Dimming WASP  
Sensor with lens

### PROJECT INFORMATION

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

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

Date \_\_\_\_\_

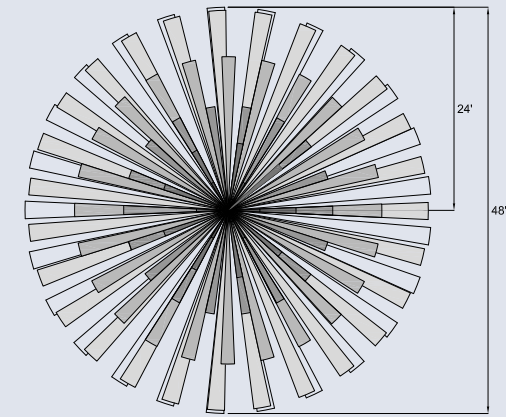
The Dimming WASP Indoor/Outdoor Occupancy Sensor is specifically designed to provide 0-10V (Class 1) control of dimmable fixtures. Easy to use dip switches allow the user to set unoccupied and occupied dimming levels. The sensor is available in end mount and surface mount versions in both line and low 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.

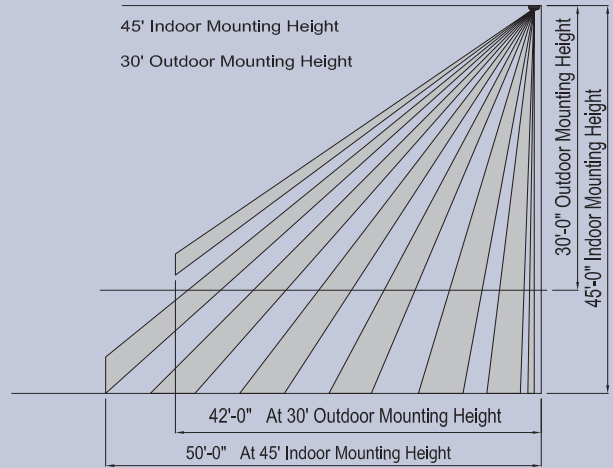
### PRODUCT FEATURES

- 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





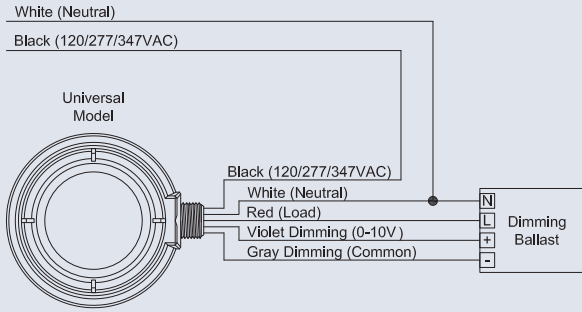
Sensor Lens Coverage and Detection Patterns When Mounted at 8ft with Low Mount Lens



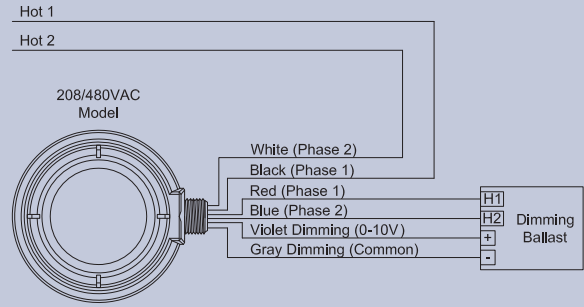
Sensor Lens Coverage and Detection Patterns When Mounted at 30ft and 45ft with Standard Lens

## General Specifications

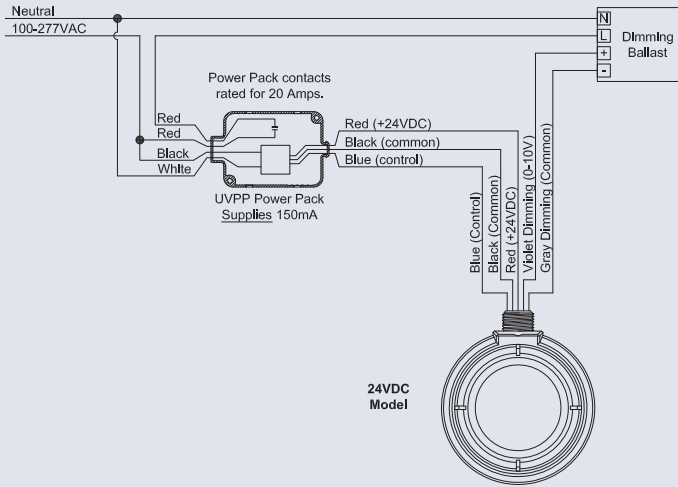
|   |   |
|---|---|
| Power Requirements  | Line Voltage sensors: 120/277/347VAC, 208/240VAC, 480VAC, 50/60Hz   |
| Low Voltage sensors: 24VDC (uses UVPP or MP-series power pack – not included) |   |
| Load Ratings<br>(Line Voltage sensors)  | 120VAC: 0-800W ballast or 0-600W tungsten, 60Hz<br>277VAC: 0-1200W ballast<br>347VAC: 0-1500W ballast<br>208/240VAC: 0-1200W ballast<br>480VAC: 0-2400W ballast<br>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<br>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<br>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*<br>*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<br>End mount sensor: Downward and upward facing daylight sensor (direction selectable via dip switch)<br>Surface mount sensor: Downward facing daylight sensor only                  |
| Interchangeable Lens Options and Coverage                                     | Lens options: (Lenses sold separately – not included with sensor module)<br>Low Mount/High Mount<br>Indoor/Outdoor<br>Coverage: 360°, 180°, Aisle, Half Aisle   |
| Operating environment   | Indoor/outdoor use<br>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<br>Optional extender adaptor (available separately)<br>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<br>LWO version conforms to IP65   |
| Warranty  | Five-year limited   |



120/277/347VAC Dimming WASP Wiring Diagram



208/240 & 480VAC Dimming WASP Wiring Diagram



24V Dimming WASP Wiring Diagram

### Ordering Information

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

Example: WSPUNVWLWO-D-BK – Wasp End Mount Sensor, 120-347VAC, Low Temp/Water Tight, 0-10 Dimming, Black

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

### Accessory

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

| MODEL       |
|-------------|
| WSPADAPTOR2 |

