The WASP2 Indoor/Outdoor Occupancy Sensor is specifically designed for On/Off control of high bay fixtures in warehouse, distribution centers and similar facilities. The WASP2 sensor is also available for low mount applications when using the appropriate lens. 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 detected. These sensors also have a unique feature known as “Smart Cycling” which ensures even lamp burn time within the fixture. Using the “Smart Cycling” feature, the amount of time each lamp is burned is maintained and kept balanced.

### Product Features
- Digital Passive Infrared (PIR) sensor
- Supported mounting heights:
  - High mount lens: 30 ft (9.14m) outdoors; 45 ft indoors (13.72m)
  - Low mount lens: 16 ft indoors/outdoors (4.88m)
- Multiple (single and dual) output versions
- Unique Smart Cycling for improved lamp life
- End mount and surface mount versions
- Interchangeable high/low area detection lens options
- Low voltage and line voltage models available
- Daylight sensor for daylight harvesting applications
- 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

**UL and cUL Listed**

**IP65**

### Dimensional Data

- **1.5”** [38.1]
- **4.0”** [101.6]

### Ordering Information

Example: WASP-EM-UNV

<table>
<thead>
<tr>
<th>SENSOR MODEL</th>
<th>ENVIRONMENT</th>
<th>MOUNTING</th>
<th>INPUT VOLTAGE</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>WSP</td>
<td>(Blank)</td>
<td>EM</td>
<td>24V</td>
<td>(Blank)</td>
</tr>
<tr>
<td>LWO</td>
<td>Standard Version</td>
<td>SM</td>
<td>24VDC (Low Voltage)</td>
<td>White</td>
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<tr>
<td></td>
<td>Low-Temp/Water Tight/Indoor/Outdoor</td>
<td></td>
<td>120/277/347VAC</td>
<td>BK</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>120/277/347VAC (2 Outputs)</td>
<td>GY</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>208/240VAC</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>480VAC</td>
<td></td>
</tr>
</tbody>
</table>

For available lens options and ordering information, reference the WASP2 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

<table>
<thead>
<tr>
<th>MODEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>WSPADAPTOR2</td>
</tr>
</tbody>
</table>

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
WASP™ 2 Occupancy Sensor

Occupancy Sensors and Controllers

Wiring Diagrams

120/277/347VAC WASP2 Wiring Diagram

208/240 & 480VAC WASP2 Wiring Diagram

24V WASP2 Wiring Diagram

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### General Specifications

| Power Requirements | 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       | 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             | 24VDC active high-logic control signal  
|                    | Relay: N/O + N/C contacts; 500mA rated @ 24VDC; three wire isolated relay  
| User Interface     | (1) Twelve pin dip switch  
| Timer Timeouts     | 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   | Dual element pyrometer and spherical Fresnel lens designed for robust detection of a walking person.*  
|                    | *When used with program start ballast, a 1-2 second delay from occupancy detection to lamp turn-on may be experienced.  
| Daylight Sensor    | 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 | Lens options: (Lenses sold separately – not included with sensor module)  
|                    | Low Mount/High Mount  
|                    | Indoor/Outdoor  
|                    | Coverage: 360°, 180°, Aisle, Half Aisle  
| Operating environment | 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/Indoor-Outdoor version: Operating temperature: -40° to 149°F (-40° 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 and Gray  
| Mounting           | End mount sensor: Mounts directly to end of fixture through extended ½” (12.7mm) 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” (31.75mm) stainless steel screws and locking nuts  
| Certifications     | Conforms to UL STD 508, UL STD 244A  
| Warranty           | Five-year limited  

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WASP™ 2 Occupancy Sensor

Occupancy Sensors and Controllers