

WASP™ OCCUPANCY SENSOR

OCCUPANCY SENSORS AND CONTROLLERS

FEATURES

- Digital Passive Infrared (PIR) sensor
- 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 (sold separately)
- Low voltage and line voltage models available
- Daylight sensor for daylight harvesting applications
- Low temperature/water-tight/indoor-outdoor versions



SPECIFICATIONS

CONSTRUCTION

- Sensor module and lens assembly - high impact, injection-molded plastic
- 4.0" x 1.5" H (101.6mm x 38.1mm H)
- 7.0 oz. (198.45g)
- White, Black and Gray
- (1) 12-pin dip switch
- Dual element pyrometer and spherical Fresnel lens designed for robust detection of a walking person*
- Lens Options
 - Low Mount/High Mount:
 - Indoor/Outdoor
 - Coverage: 360°, 180°, Aisle, Half Aisle
 - Lenses sold separately

MOUNTING

- End mount sensor: Mounts directly to end of fixture through extended 1/2": (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

ELECTRICAL

- Line voltage sensors:
 - 120/277/347 VAC, 60 Hz with the following loads:

ELECTRICAL(CONTINUED)

- 120 VAC: 0-800W Tungsten or Standard Ballast, 0-600W Electronic Ballast
- 125 VAC: 1/4 HP motor load
- 277 VAC: 0-1200W Standard or Electronic Ballast
- 347 VAC: 0-1500W Ballast or 1/6 HP motor load
- 208/240 VAC, 60 Hz with 0-1200W Ballast load
- 480 VAC, 60Hz with 0-2400W Ballast load
- Low voltage sensors:
 - 24 VDC (uses UVPP or MP-Series power pack - not included)
 - Relay: N/O + N/C contacts, 500mA rated @ 24 VDC; three wire isolated relay

OPERATION

- Coverage: 360°, 180°, Aisle, Half Aisle
- Timer Settings
 - Primary: 8-second test mode - 4, 8, 16 and 30 minute timeouts
 - Secondary: can be disable (switches off with primary timer) - 30, 60 and 90 minute timeouts

OPERATION (CONTINUED)

- 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

OPERATING ENVIRONMENT

- Operating temperature: 32° to 149°F (0° to 65°C)
- Relative humidity (non-condensing): 0% to 95%
- Low-temperature/WaterTight/Indoor-Outdoor version: Operating temperature: -40° to 149°F (-40° to 65°C)

CERTIFICATIONS

- UL and cULus listed
- Title 24 compliant
- Conforms to UL STD 508, UL STD 244A
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions. See [Buy America\(n\) Solutions](#).

WARRANTY

- 5 year warranty

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

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ORDERING GUIDE

Example: WSPSMUNV

CATALOG #

WSP	Environment	Mounting	Input Voltage	Color	BAA/TAA*
Sensor					
WSP WASP Sensor	Blank Standard Version	EM End Mount	24V 24VDC (Low Voltage)	Blank White	Blank Standard Product
	LWO Low-Temp/WaterTight/Indoor/Outdoor	SM Surface Mount	UNV 120/277/347VAC	BK Black	* See Buy American Solutions below
			208 208/240VAC	GY Gray	
			480 480VAC		

*Buy American Solutions	
BAA	TAA
WSPLWOEMUNV-U	WSPLWOEMUNV-T
WSPLWOSM24V-U	-
WSPSM24V-U	WSPSM24V-T
WSPLWOSMUNV-U	WSPLWOSMUNV-T
WSPSMUNV-U	WSPSMUNV-T
WSPSMUNV-U	WSPSMUNV-T

Lens Ordering Guide

Example: WSPLWO-L360-LM-WH

CATALOG #

WSP	Environment	Coverage	Mounting	Color
Sensor Lens				
WSP WASP Sensor Lens	Blank Indoor Version	L360 360° Area Lens	Blank High Mount	WH White
	LWO Low-Temp/Watertight/Outdoor Only	L180 180° Area Lens	LM Low Mount	BK Black
		LA Aisle Lens		GY Gray
		LHA Half Aisle Lens		

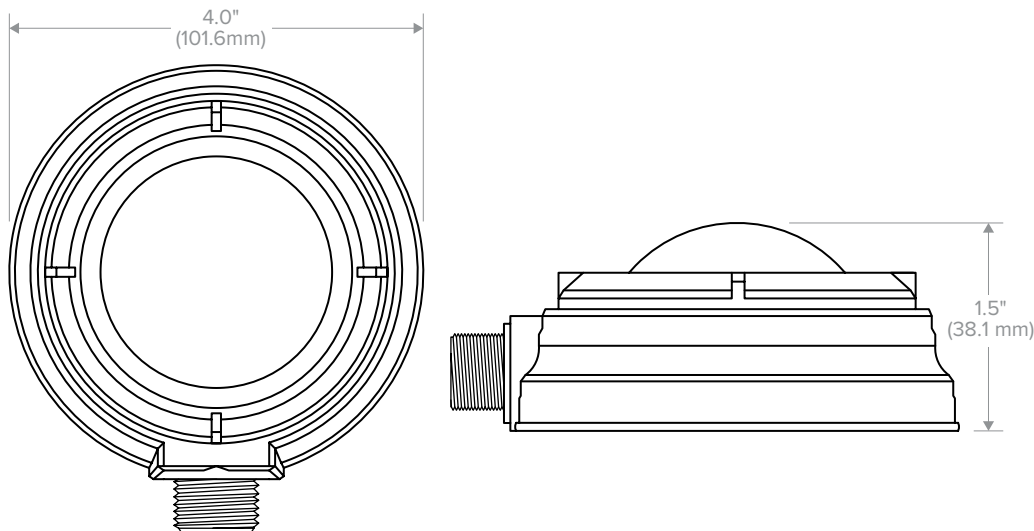
Notes:

*Please see Buy American Solutions table above

Accessories

- ☐ **WSPADAPTOR2** WASP End Mount Sensor Offset Adapter

DIMENSIONS

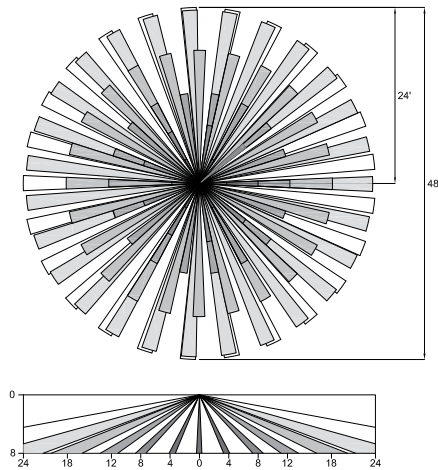


WASP™ OCCUPANCY SENSOR

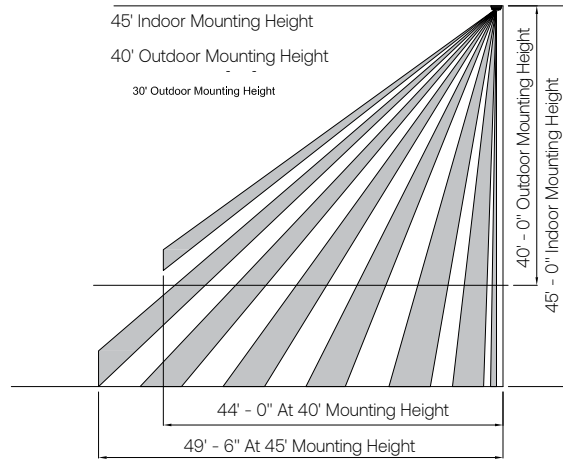
OCCUPANCY SENSORS AND CONTROLLERS

ADDITIONAL INFORMATION

Coverage Pattern

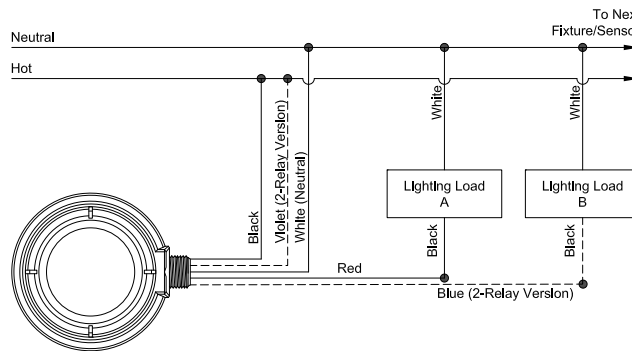


Sensor Lens Coverage and Detection Patterns
When Mounted at 8 ft with Low Mount Lens

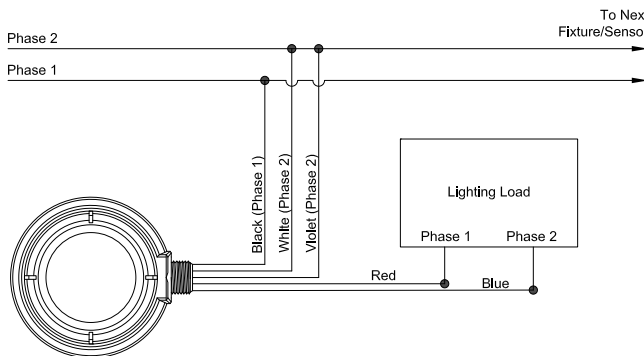


Sensor Lens Coverage and Detection Patterns
When Mounted at 40 ft and 45 ft with High Mount Lens

Wiring Diagrams



120/277/347VAC WASP2



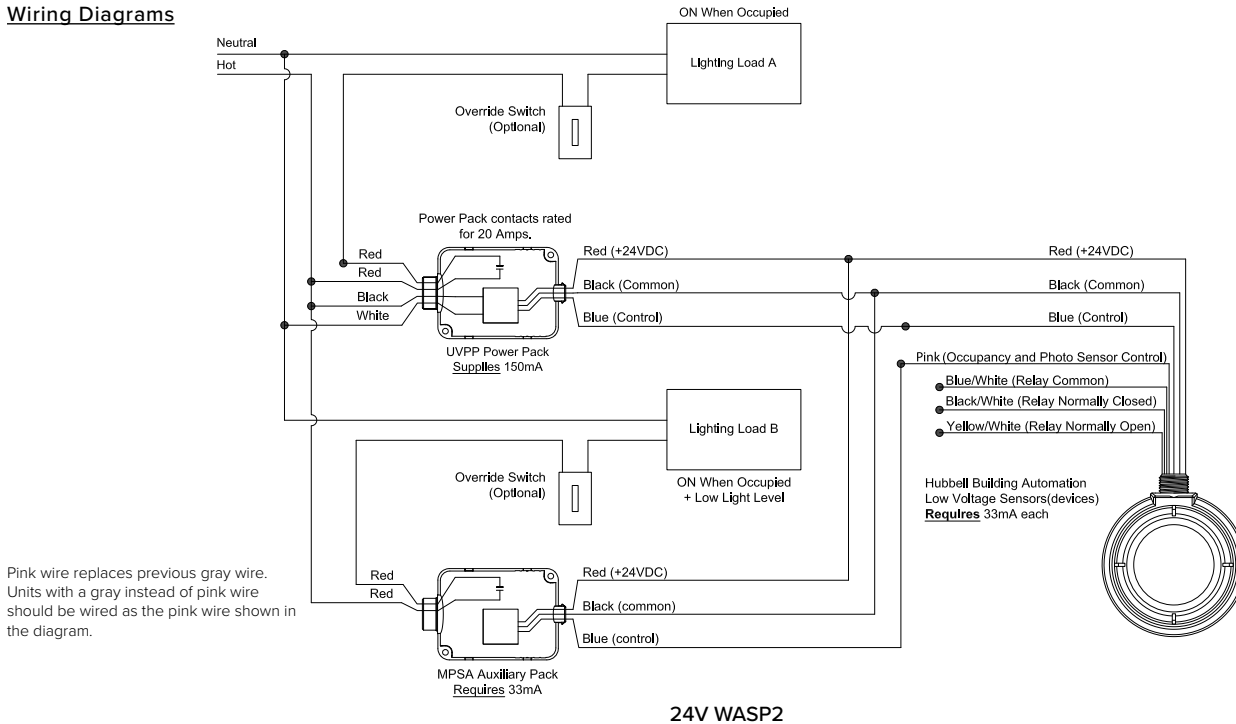
208/240 & 480VAC WASP2

WASP™ OCCUPANCY SENSOR

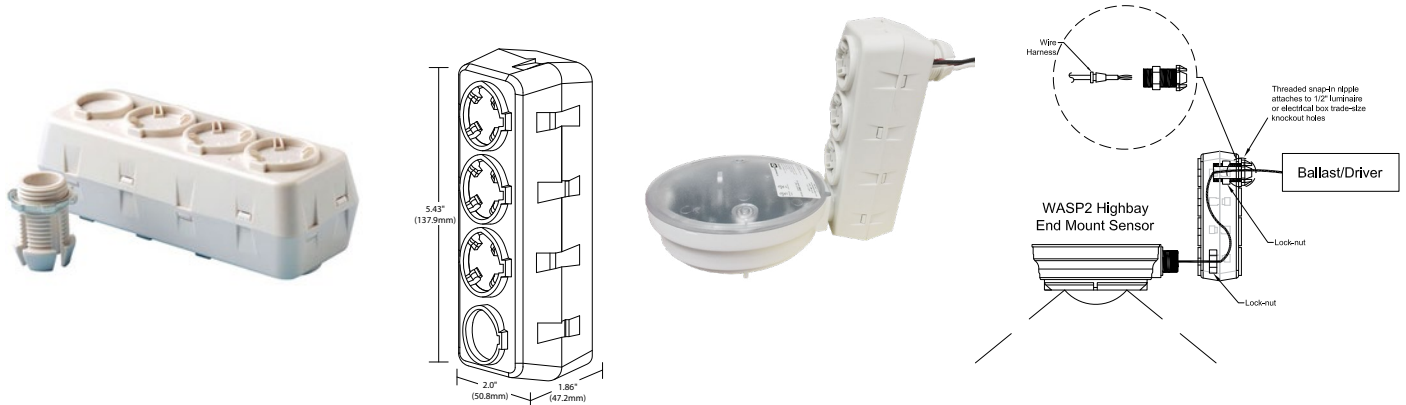
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ADDITIONAL INFORMATION CONTINUED

Wiring Diagrams



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.

Default Settings

Occupancy Sensor Timeout	8 Minutes
Occupied State	ON
Unoccupied State	OFF
Daylight Sensor	Disabled