



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



RELATED PRODUCTS

- [Occupancy Sensor Accessories](#)
- [WASP Sensor Lens](#)
- [Universal Voltage Power Packs](#)
- [Heavy Duty Universal Voltage Power Packs](#)
- [MPSHD Pack](#)
- [MP347A Power Pack](#)

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
- (I) 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 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

ELECTRICAL

- Line Voltage sensors: 120/277/347VAC, 208/240VAC, 480VAC, 60 Hz
- Low Voltage sensors: 24VDC (uses UVPP or MP-Series power pack – not included)

ELECTRICAL (CONTINUED)

- 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
- 24VDC active high-logic control signal
- Relay: N/O + N/C contacts; 500mA rated @ 24VDC; 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
- 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 qualifies as both (i) a "domestic construction material" per FAR §52.225-9 Buy American-Construction Materials and a "(COTS) item" per FAR §2.101 and (ii) a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 5/27/2020. See [Buy American Solutions](#).
- This product qualifies as "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 5/27/2020. See [Buy American Solutions](#).

WARRANTY

- 5 year warranty
- See [HCS Standard Warranty](#) for additional information

*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-U

CATALOG # _____

WSP					
Sensor	Environment	Mounting	Input Voltage	Color	BAA/TAA*
WSP WASP Sensor	(Blank) Standard Version LWO Low-Temp/WaterTight/ Indoor/Outdoor	EM End Mount SM Surface Mount	24V 24VDC (Low Voltage) UNV 120/277/347VAC UNV2R 120/277/347VAC (2 Outputs) 208 208/240VAC 480 480VAC	(Blank) White BK Black GY Gray	Blank Standard Product U BAA T TAA

*Buy American Solutions	
BAA FAR \$52.225-9	TAA FAR \$52.225-11
WSPMUNV	WSPMUNV
WSPLWOEMUNV	
WSPLWOSM24V	WSPSM24V
WSPLWOSMUNV	
WSPSMUNV	

Lens Ordering Guide

Example: WSPLWO-L360-LM-WH

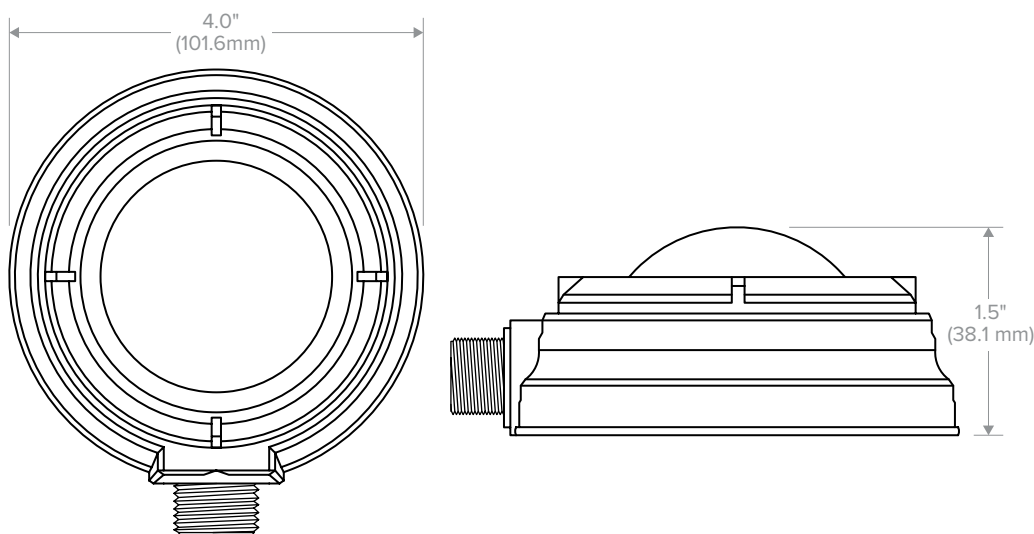
CATALOG # _____

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

Accessories

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

DIMENSIONS

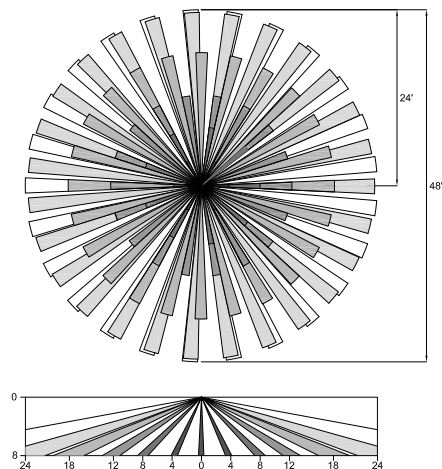


WASP™ OCCUPANCY SENSOR

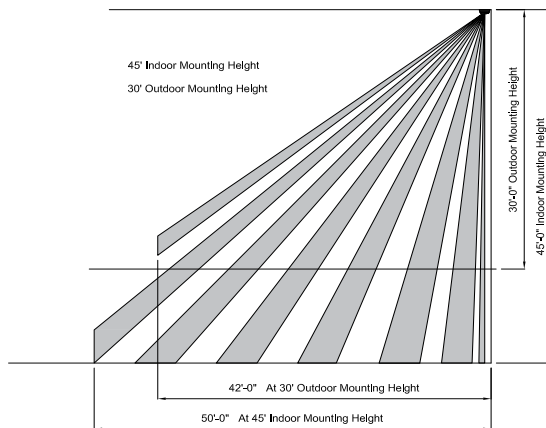
OCCUPANCY SENSORS AND CONTROLLERS

ADDITIONAL INFORMATION

Coverage Pattern

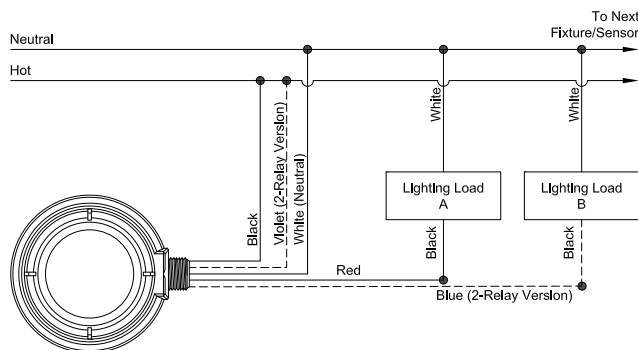


Sensor Lens Coverage and Detection Patterns
When Mounted at 8 ft with Low Mount Lens

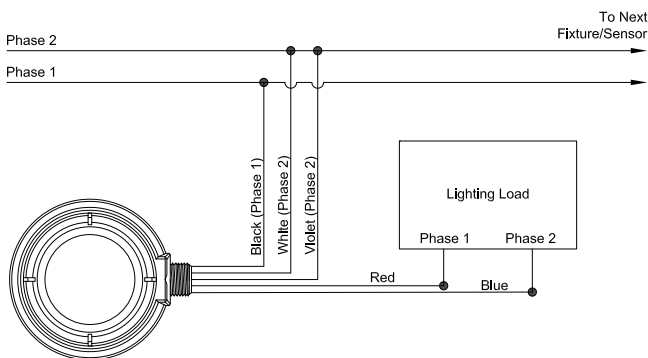


Sensor Lens Coverage and Detection Patterns
When Mounted at 30 ft and 45 ft with Standard Lens

Wiring Diagrams



120/277/347VAC WASP2



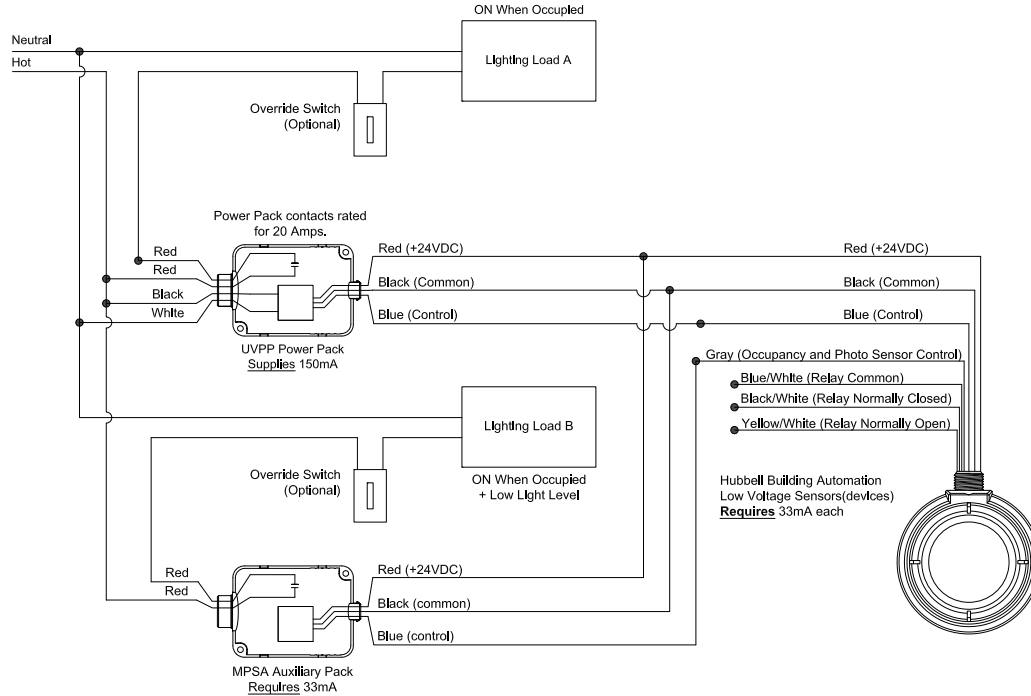
208/240 & 480VAC WASP2

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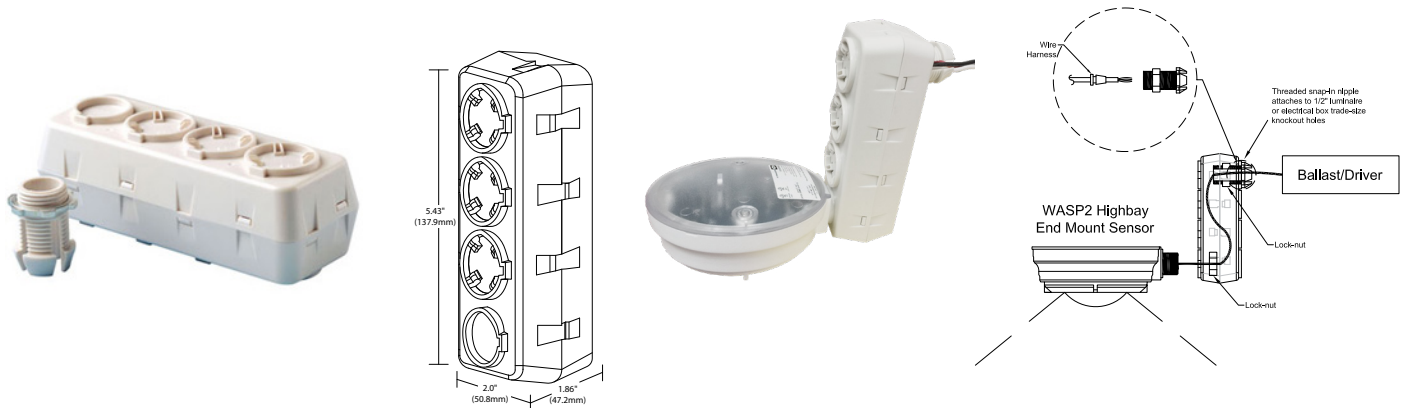
ADDITIONAL INFORMATION CONTINUED

Wiring Diagrams



24V WASP2

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.