DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

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

Title 24 | c(UL)us LISTED | IP65 | DAYLIGHT HARVESTING | SMART CYCLING

OCCUPANCY SENSING | BUY AMERICAN SOLUTIONS — See Certification Specifications

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
- (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 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

HUBBELL Lighting

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WASP™ OCCUPANCY SENSOR
OCCUPANCY SENSORS AND CONTROLLERS

ORDERING GUIDE

Example: WSPSMUNV-U

CATALOG #

WSP

Sensor		Environment		Mounting		Input Voltage		Color		BAA/TAA*	
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	**U**	BAA
						UNV2R	120/277/347VAC (2 Outputs)	**GY**	Gray	**T**	TAA
						208	208/240VAC				
						480	480VAC				

*Buy American Solutions	
BAA FAR §52.225-9	**TAA** FAR §52.225-11
WSPEMUNV	
WSPLWOEMUNV	
WSPLWOSM24V	
WSPLWOSMUNV	
WSPSMUNV	
	WSPSM24V

Lens Ordering Guide

Example: WSPLWO-L360-LM-WH

CATALOG #

WSP

Sensor Lens		Environment		Coverage		Mounting		Color	
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				

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

DIMENSIONS

4.0" (101.6mm)

1.5" (38.1 mm)

HUBBELL Lighting

DATE: LOCATION:
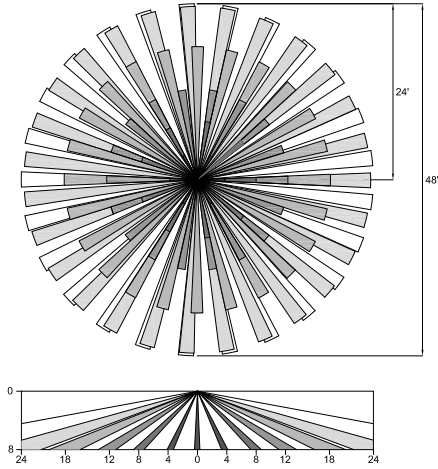
TYPE: PROJECT:

CATALOG #:
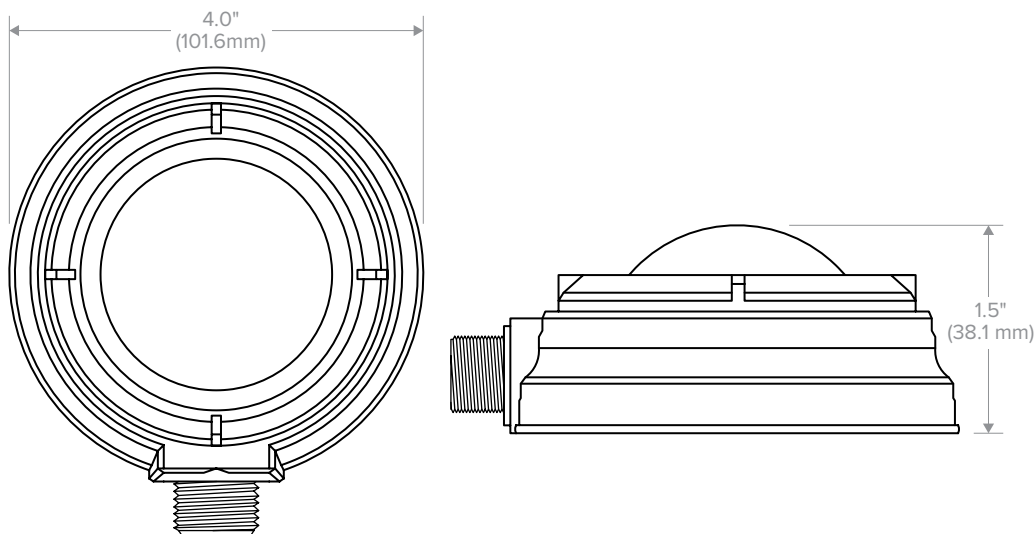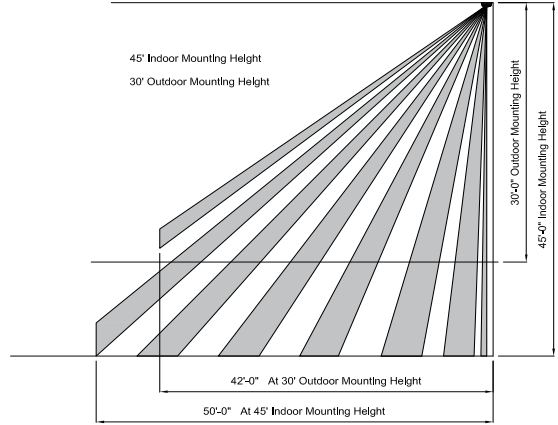
WASP™ OCCUPANCY SENSOR
OCCUPANCY SENSORS AND CONTROLLERS
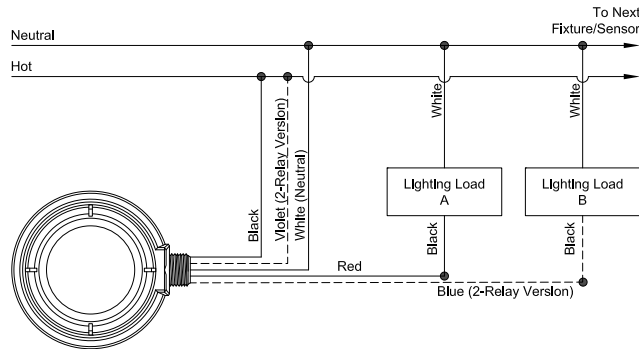
ADDITIONAL INFORMATION

Coverage Pattern

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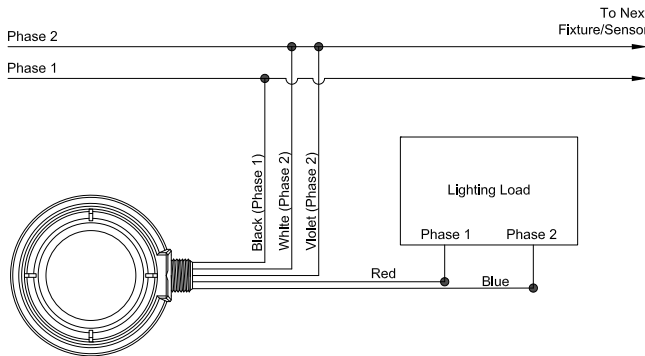When Mounted at 8 ft with Low Mount Lens

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

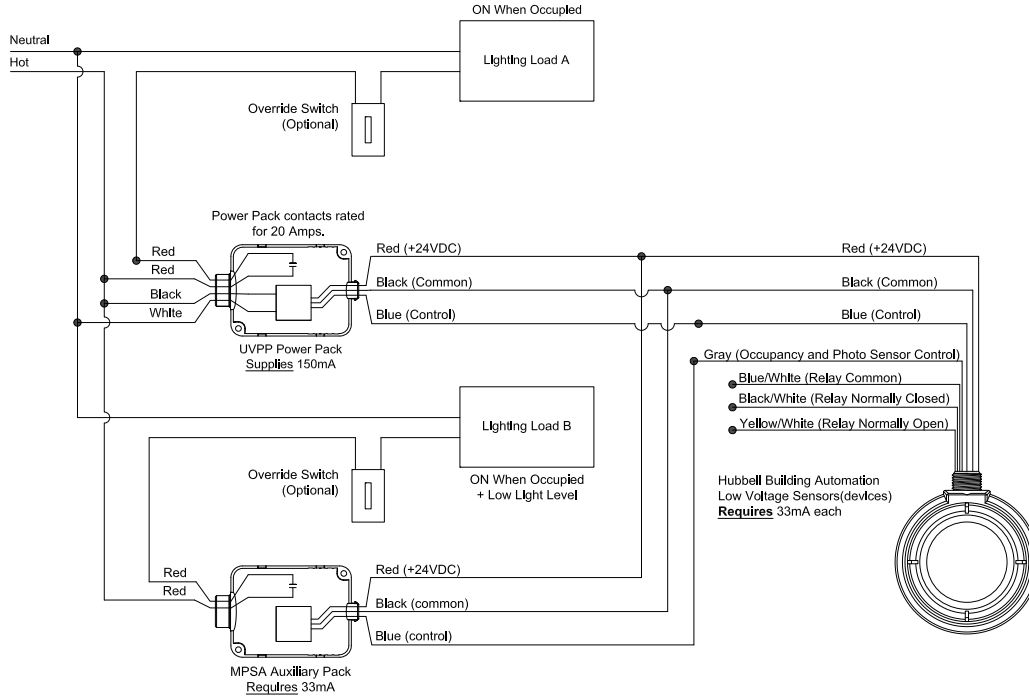### Wiring Diagrams

120/277/347VAC WASP2

208/240 & 480VAC WASP2

HUBBELL®
Lighting

WASP™ OCCUPANCY SENSOR

OCCUPANCY SENSORS AND CONTROLLERS

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.