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

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)

• 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

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

WARRANTY

• 5 year warranty

• See HLI 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**
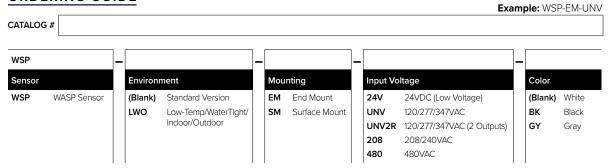
HUBBELL
Control Solutions

WASP™ OCCUPANCY SENSOR
OCCUPANCY SENSORS AND CONTROLLERS

HUBBELL Lighting

ORDERING GUIDE

Example: WSP-EM-UNV

CATALOG #

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

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)
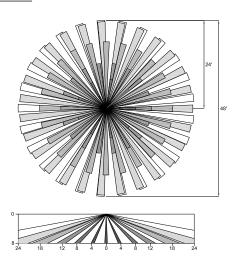
HUBBELL Lighting

HUBBELL
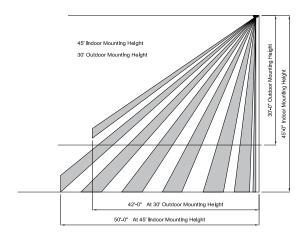**Control Solutions**

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

45' Indoor Mounting Height
30' Outdoor Mounting Height

30'-0" Outdoor Mounting Height
45'-0" Indoor Mounting Height

42'-0"   At 30' Outdoor Mounting Height
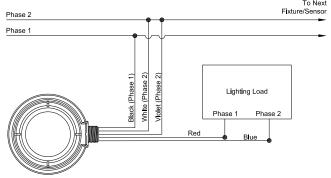50'-0"   At 45' Indoor Mounting Height

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
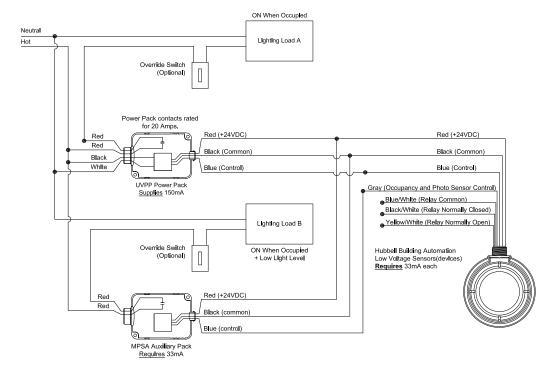**Lighting**

WASP™ OCCUPANCY SENSOR
OCCUPANCY SENSORS AND CONTROLLERS

ADDITIONAL INFORMATION CONTINUED

Wiring Diagrams

Neutral
Hot

ON When Occupied

Lighting Load A

Override Switch
(Optional)

Power Pack contacts rated
for 20 Amps.

Red
Red

Black
White

Red (+24VDC)

Black (Common)

Blue (Control)

UVPP Power Pack
Supplies 150mA

Red (+24VDC)

Black (Common)

Blue (Control)

Gray (Occupancy and Photo Sensor Control)

Blue/White (Relay Common)

Black/White (Relay Normally Closed)

Yellow/White (Relay Normally Open)

Lighting Load B

Override Switch
(Optional)

ON When Occupied
+ Low Light Level

Hubbell Building Automation
Low Voltage Sensors(devices)
Requires 33mA each

Red
Red

Red (+24VDC)

Black (common)

Blue (control)

MPSA Auxiliary Pack
Requires 33mA

24V WASP2

Accessories

5.43"
(137.9mm)

2.0"
(50.8mm)

1.86"
(47.2mm)

Wire
Harness

Threaded snap-in nipple
attaches to 1/2" luminaire
or electrical box trade-size
knockout holes

Ballast/Driver

WASP2 Highbay
End Mount Sensor

Lock-nut

Lock-nut

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.