

# Lighting Controls

## WSPD SERIES

OCCUPANCY SENSORS AND CONTROLLERS

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

### FEATURES

- Digital Passive Infrared (PIR) sensor
- Controls 0-10V dimmable ballasts
- Daylight sensor for daylight harvesting applications
- End mount and surface mount versions
- Interchangeable high/low area detection lens options
- Low temperature/Watertight/Indoor-Outdoor versions
- UL and cUL listed
- 5 year warranty



### SPECIFICATIONS

#### CONSTRUCTION

- Sensor Module and Lens Assembly: high-impact, injection-molded plastic
- 7 oz. (198.45g)
- White, Black, Gray finishes available
- Ø4.0" x1.5" H (Ø 101.6MM x 38.1mm H)

#### ELECTRICAL

- Line Voltage sensors: 120-480VAC, 60Hz
- Low Voltage sensors: 24VDC "class 2" (uses UVPP or MP-series power - not included)
- 24VDC
- 120VAC: 10A Tungsten
- 120-347VAC: 5A Standard Ballast
- 120-277VAC: 5A Electronic Ballast
- 347VAC: 3A Electronic Ballast
- 480VAC: 3A Standard Ballast
- Capable of sinking up to 30mA
- 24VDC active high-logic control signal
- Relay: N/O + N/C contacts; 500mA rated @ 24VDC

#### OPERATION

- Indoor/Outdoor use
- Operating temperature: 32°F to 149°F (0°C to 65°C)

#### OPERATION (CONTINUED)

- Low-temperature/WaterTight/Indoor-Outdoor version: Operating temperature: -40° to 149°F (-40° to 65°C)
- Twelve pin dip switch for initial choice of functionality
- 8-second test mode - 4, 8, 16 and 30 minute timeouts
- Enabled: After 60 minutes in the Unoccupied low level state, sensor will turn lighting off
- Disabled: Sensor will maintain low level setting when there is no occupancy
- Dual element pyrometer and spherical Fresnel lens designed for robust detection of walking person (when used with program start ballasts, a 1-2 second delay from occupancy detection to lamp turn-on may occur)

#### DIMMING PRESETS

- Unoccupied: 70%, 60%, 50%, 20%

#### DAYLIGHT SENSOR

- Range: 1 to 50fc or 5 to 500fc
- End mount sensor: Downward and upward facing daylight sensor (direction selectable via dip switch)
- Surface mount sensor: Downward facing daylight sensor only

#### INTERCHANGEABLE LENS OPTIONS AND COVERAGE

- Lens options: (Lenses sold separately - not included with sensor module)
- Low Mount/High Mount
- Indoor/Outdoor
- Coverage: 360°, 180°, Aisle, Half Aisle

#### CERTIFICATIONS

- Conforms with UL STD 508, UL STD 244A
- LWO version conforms to IP65

#### WARRANTY

- 5 year limited

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### ORDERING GUIDE

Example: WSPDLWOEMUNV-BK

CATALOG #

WSPD							
Model		Environment		Mounting		Input Voltage	Color
WSPD	0-10V Dimming WSP Sensor	Blank	Standard Version	EM	End Mount	24V	24VDC (Low Voltage)
		LWO	Low-Temp/Watertight/Indoor/Outdoor	SM	Surface Mount	UNV	120-480VAC
							Blank White BK Black GY Gray

### Lens Ordering Guide

Example: WSPLWO-L360-LM-WH

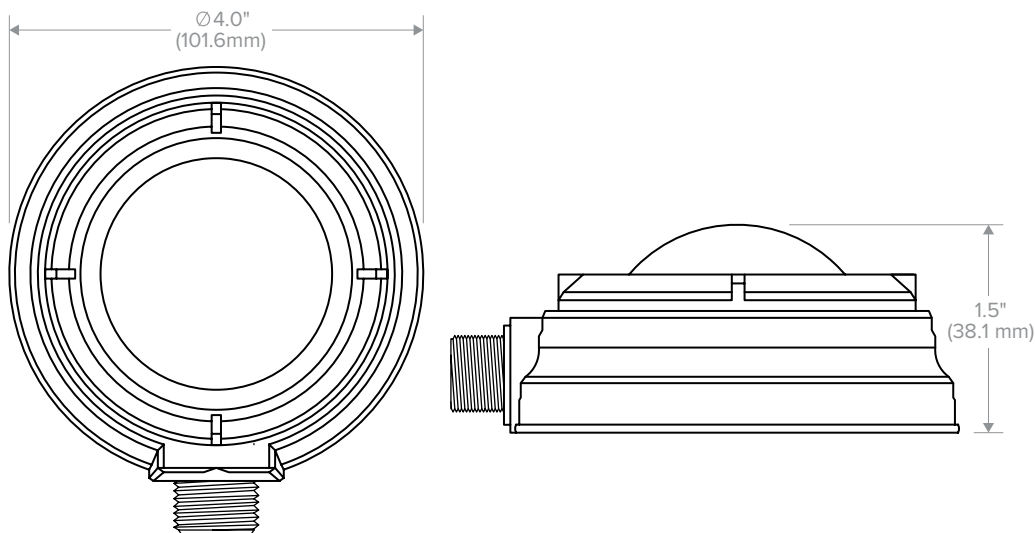
CATALOG #

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

### Accessories

- ☐ WSPADAPTOR2 WASP End Mount Sensor Offset Adapter

### DIMENSIONS



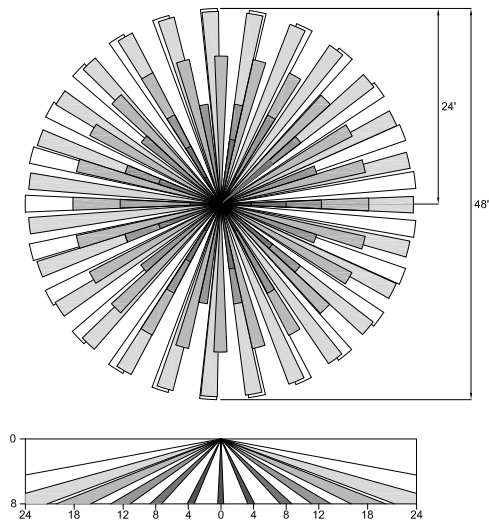
# Lighting Controls

## WSPD SERIES

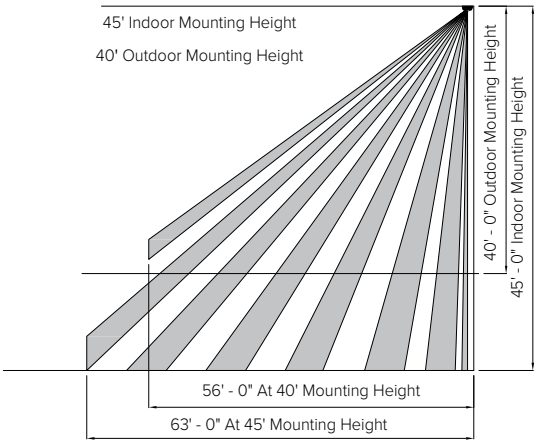
OCCUPANCY SENSORS AND CONTROLLERS

### ADDITIONAL INFORMATION

#### Coverage Patterns



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



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

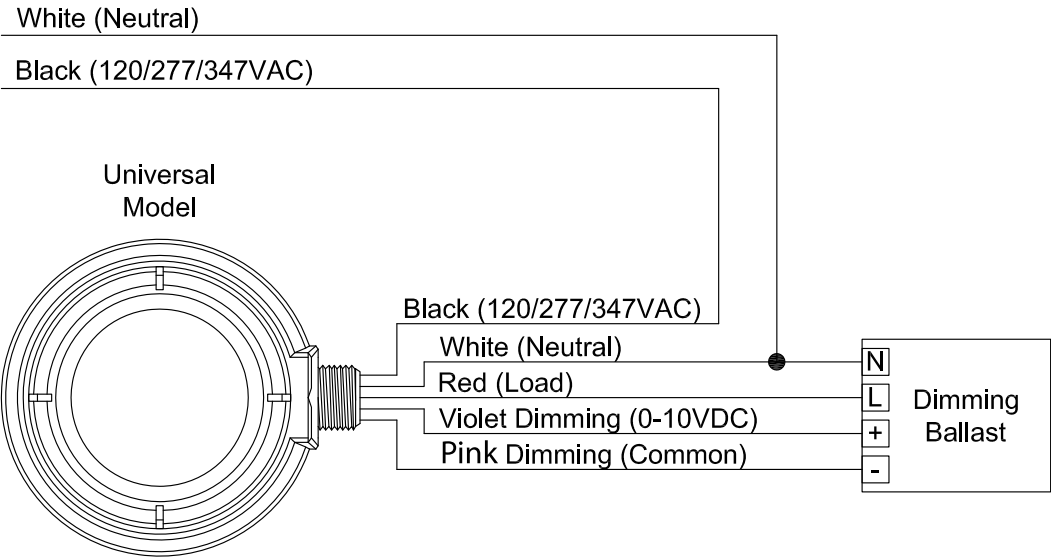
# Lighting Controls

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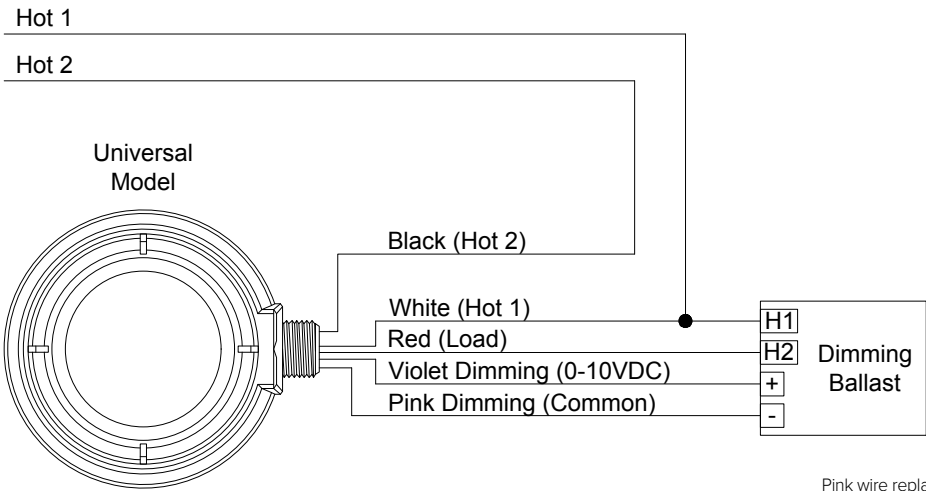
OCCUPANCY SENSORS AND CONTROLLERS

### ADDITIONAL INFORMATION CONTINUED

Wiring Diagrams



120/277/347VAC  
Wiring Diagram



Pink wire replaces previous gray wire. Units with a gray instead of pink wire should be wired as the pink wire shown in the diagram.

208/240 & 480VAC  
Wiring Diagrams

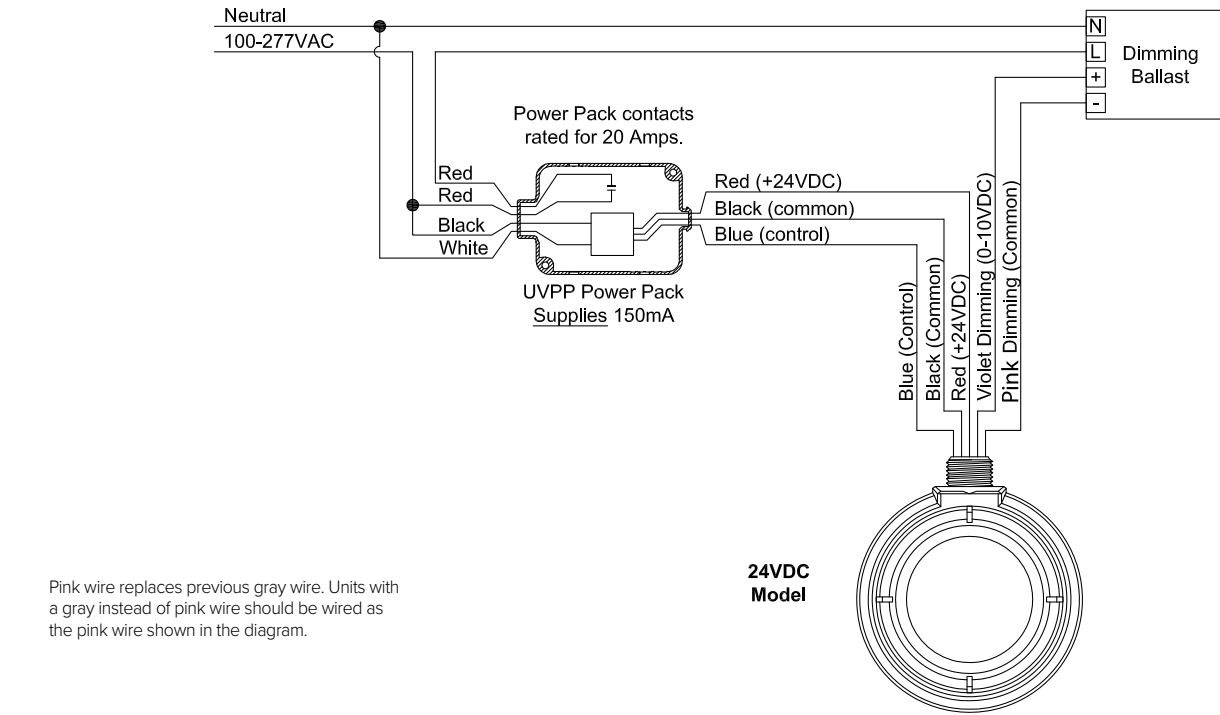
# Lighting Controls

## WSPD SERIES

OCCUPANCY SENSORS AND CONTROLLERS

### ADDITIONAL INFORMATION CONTINUED

#### Wiring Diagrams Continued



Pink wire replaces previous gray wire. Units with a gray instead of pink wire should be wired as the pink wire shown in the diagram.

24V Dimming WASP Wiring Diagram

#### 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 Dim Level	100%
Unoccupied Dim Level	50%
Full Off Timeout	Disabled
Daylight Sensor	Disabled