

Lighting Controls

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

BLUETOOTH® WASP SENSOR

OCCUPANCY/VACANCY SENSORS AND CONTROLLERS

FEATURES

- Wireless programming using NX Lighting Controls mobile app
- ON/OFF and 0-10V dimming control
- Single/Dual motion sensor timer modes
- Multiple daylight harvesting modes for indoor and outdoor applications
- Interchangeable high/low area detection lens options
- Low voltage and line voltage models available
- Daylight sensor for daylight harvesting applications
- Low temperature/water-tight/indoor-outdoor versions



tradeSELECT®



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
- Bluetooth Radio: V5.0

OPERATION

- Indoor/Outdoor use
- Operating temperature: 32°F to 149°F (0°C to 65°C)
- Low-temperature/WaterTight/Indoor-Outdoor version: Operating temperature: -40° to 149°F (-40° to 65°C)
- Wireless programming of sensor settings using NX Lighting Controls mobile app. Maximum programming distance: 45 Ft

OPERATION (CONTINUED)

- Easy to use slider controls for sensor settings
- Motion sensor and photosensor test modes
- Configurable LED motion indicator
- Single/Dual Motion Sensor Timer Modes
 - Single Timer Mode: Timer (1 sec - 20 mins), Level Adjustment (0-100%), Relay State (On/Off)
 - Dual Timer Mode: Timer 1 (1 sec - 20 mins), Level Adjustment (0-100%), Relay State (On/Off) / Timer 2 (0 min - 4 hrs)
- Multiple Daylight Harvesting Modes
 - Full range dimming with auto configuration (closed loop operation)
 - Legacy dimming (open loop operation)
 - Dusk to dawn (On/Off operation)
 - Disabled (Default)
- Device Cloning: Sensor settings can be saved to device profiles and then cloned to other sensors
- Patented Intelliscope™ technology showing real-time occupancy data
- Security
 - Passcode protection to prevent unwanted changes
 - Bluetooth radio can be turned off via the app after programming (To reenable, press and hold reset pin on sensor for 5 seconds)

OPERATION (CONTINUED)

- Factory Defaults: Sensor can be set to factory defaults using the app or by pressing and holding the sensor's reset pin for more than 10 seconds)
- Over the Air (OTA) firmware updateable
- 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)

DAYLIGHT SENSOR

- Range: 1 to 50fc or 5 to 500fc
- End mount sensor: Downward and upward facing daylight sensor (direction selectable via NX Lighting Controls mobile app)
- 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: WSPDBEMUNV, WSPDLWOBEMUNV-GY

CATALOG #

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

Lens Ordering Guide

Example: WSPLWO-L360-LM-WH

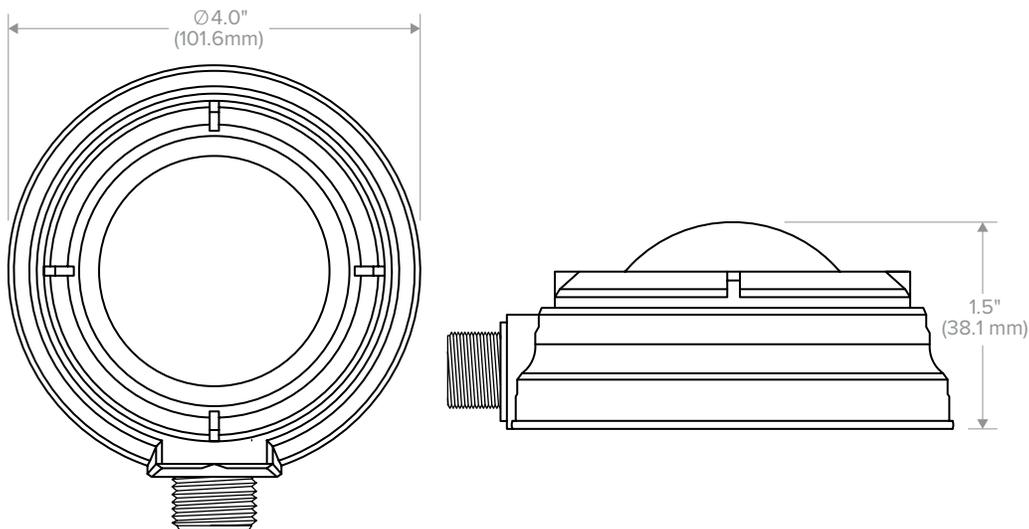
CATALOG #

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				

Accessories

- WSPADAPTOR2** WASP End Mount Sensor Offset Adapter

DIMENSIONS



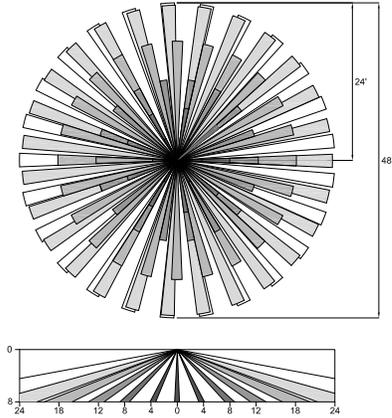
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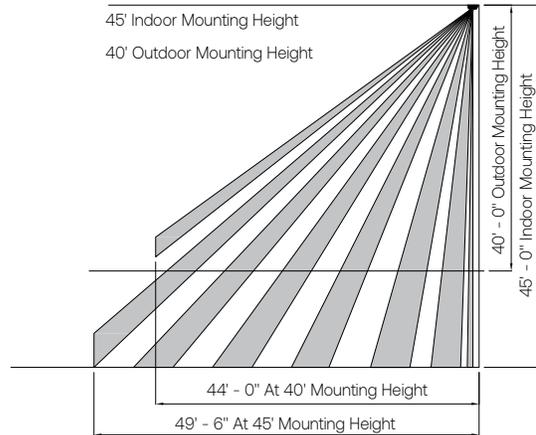
OCCUPANCY/VACANCY SENSORS AND CONTROLLERS

ADDITIONAL INFORMATION CONTINUED

Coverage Patterns

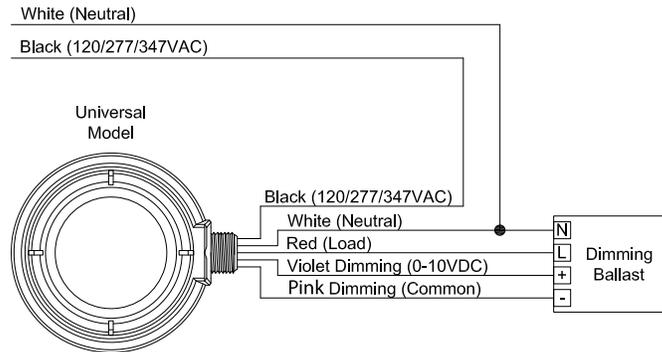


Sensor Lens Coverage and Detection Patterns When Mounted at 8ft with Low Mount Lens

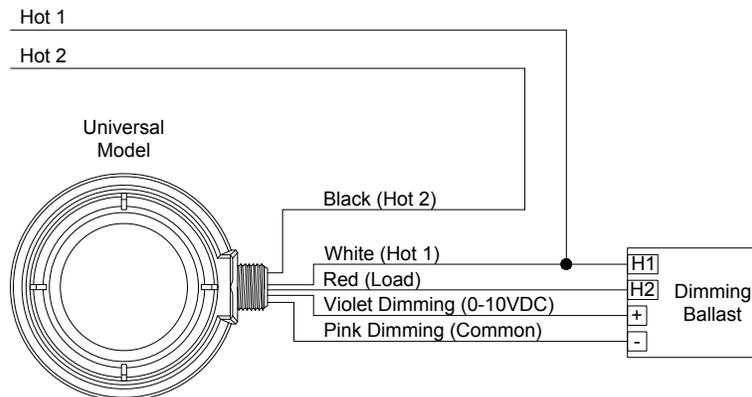


Sensor Lens Coverage and Detection Patterns When Mounted at 30ft and 45ft with High Mount Lens

Wiring Diagrams



120/277/347VAC Wiring Diagram



208/240 & 480VAC Wiring Diagrams

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.

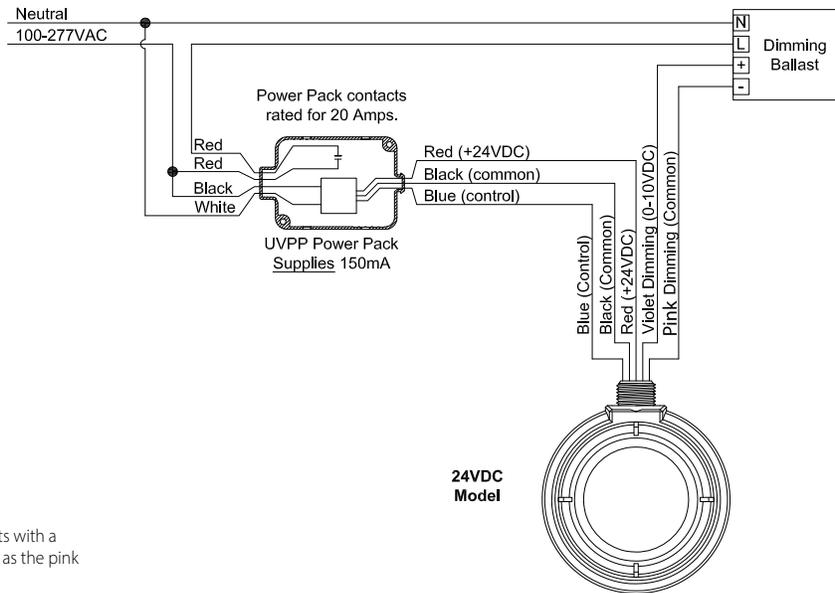
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OCCUPANCY/VACANCY SENSORS AND CONTROLLERS

ADDITIONAL INFORMATION CONTINUED

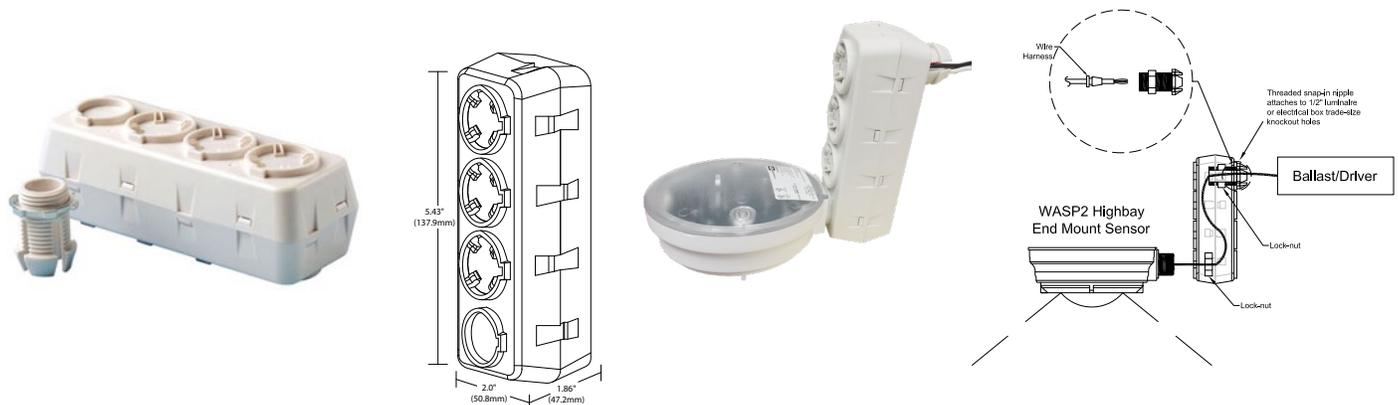
Wiring Diagrams Continued



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	Enabled
Occupancy Sensor Sensitivity	7
Occupancy Sensor Timeout	8 Minutes
Occupied Dim Level	100%
Unoccupied Dim Level	0% (OFF)
Daylight Sensor	Disabled