

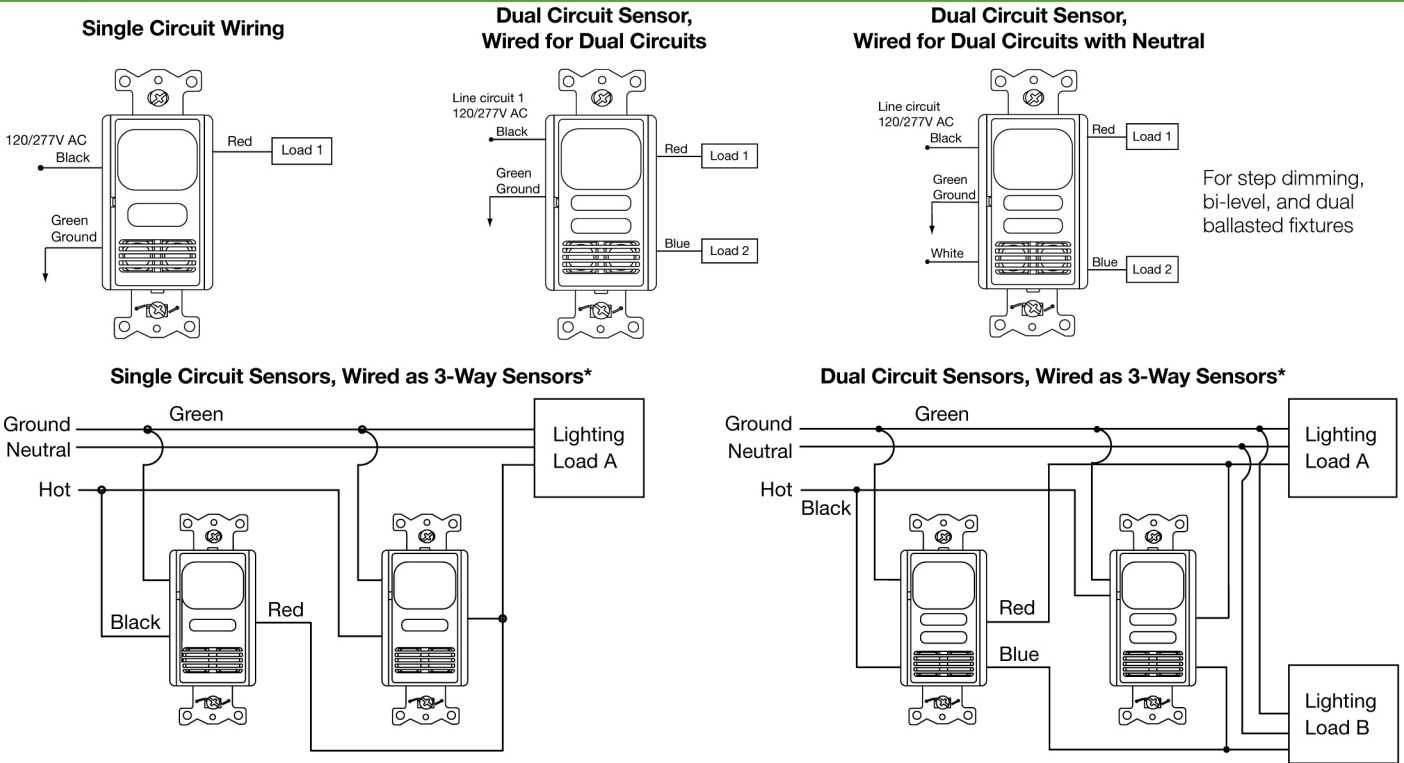
# Occupancy Sensors and Lighting Controls

## Specifications and Wiring Schematics



Electrical	MSD2000 and MSU2000 Series	
Power supply	120/277V AC, 50/60Hz	
Load capacity	Incandescent	0 to 800 watts
	120V AC ballast	0 to 1000 watts
	277V AC ballast	0 to 1800 watts
Motor load	1/4HP	
Agency approvals	cULus Listed	
Physical		
Housing	High-impact plastic (UL 94-5V)	
Lens	Dual element pyrometer and 12 element cylindrical hard lens (MSD and MSU series only)	
Dimensions	Face 2.57"H x 1.71"W, 0.53"D (from wall out)	
Mounting height	42 to 54 inches above floor	
Environmental		
Operating	32°F to 104°F (0°C to 40°C), 0% to 95% non-condensing relative humidity	
Storage	-20°F to 160°F (-29°C to 66°C), 0% to 95% non-condensing relative humidity	
Controls		
Time delay	Digital, adaptive 4 to 30 minutes (20 min default MSU only)	
Ambient light	Adjustable ambient light override, 10 to 500 foot candles	
Front press switch	Auto/OFF	
Sensitivity	Adaptive 0% to 100%	
Service switch	Air gap OFF	
Sensing Indicator		
Passive infrared	Red LED (MSD series only)	
Ultrasonic	Green LED (MSD series only)	

### Wiring Schematic MSD and MSU Series Wall Switch Sensors



*Note: \*Load can not exceed the rating of one switch.  
Sensor is shipped with all dip switches in the OFF position (factory default).*

# Occupancy Sensors and Lighting Controls

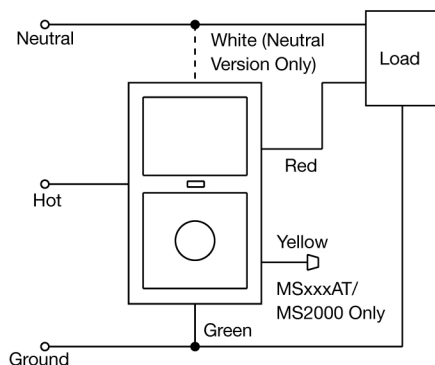
## Specifications and Wiring Schematics



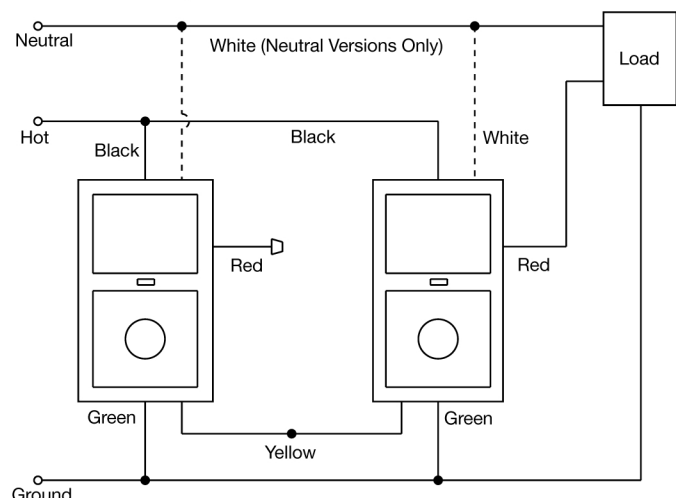
Electrical	MS2000AT and MS2000 Series	MS1000 Series
Power supply	120/277V AC, 60Hz	120V AC, 60Hz
Load capacity	Incandescent 0 to 1000 watts 120V AC Ballast 0 to 1000 watts 277V AC Ballast 0 to 1800 watts	0 to 500 watts 0 to 500 watts N/A
Motor load	N/A	N/A
Agency approvals	cULus Listed	cULus Listed
Physical		
Housing	Flame retardant (UL 94 V-0 ABS)	
Lens	Polyethylene	
Dimensions	Face 2.59"H x 1.30"W, 0.61"D (from wall out)	
Mounting height	42 to 54 inches above floor	
Environmental		
Operating	32°F to 122°F (0°C to 50°C) with rate of change not exceeding 20°F (11°C) per hour, 20% to 90% non-condensing relative humidity	
Storage	-40°F to 150°F (-40°C to 65°C), 20% to 90% non-condensing relative humidity	
Controls		
Time delay	Auto (MS2000AT series) Manual 20 seconds to 30 minutes (MS2000 series)	Manual 20 seconds to 30 minutes
Ambient light	Digital, push button, 10 to 500 foot candles	N/A
Front press switch	ON/OFF	ON/OFF
Sensitivity	N/A	N/A
Service switch	OFF (service), Vaccancy (manual-ON), Occupancy (auto-ON)	OFF (service), ON (normal operation)
Sensing Indicator		
Passive infrared	Red LED	Red LED
Ultrasonic	N/A	N/A

## Wiring Schematic MS2000AT, MS2000 and MS1000 Series Wall Switch Sensors

### Normal Wiring



### Sensors Wired as 3-Way Sensors\* (MSxxxAT/MS2000 Only)



Note: \*Load can not exceed the rating of one switch.  
Sensor is shipped with all dip switches in the OFF position (factory default).