

Occupancy Sensors and Lighting Controls

Specifications



	OPTIMYZER® High Bay Controls MSHB Series	OPTIMYZER® MSHBxxJPCW Series
User interface	(1) twelve pin dip switch	
Timer time-outs	Primary: 8-second test mode, 4, 8, 16 and 30 minute time-outs Secondary: (Can be disabled) 30, 60 and 90 minute time-outs	
Passive infrared	Dual element pyrometer and spherical Fresnel lens	
Daylight sensor	Dual element pyrometer and spherical Fresnel lens designed for robust detection of a walking person*	
Coverage	360° lens provided, 180° aisle and end-of-aisle lenses also available	
Load ratings (line voltage units)	120V AC: 0 to 800W ballast or tungsten 277V AC: 0 to 1200W ballast 347V AC: 0 to 1500W ballast	208/240V AC: 0 to 1200W ballast 480V AC: 0-2400W ballast 1/4HP motor load @ 120V AC, 1/6HP @ 347V AC
	Output (Low voltage sensors): • 24V DC active high-logic control signal • Relay: N/O + N/C contacts, 500mA rated @ 24V DC, 3-wire isolated relay	
Operating environment	Indoor use only, operating temperature: (standard version) 32°F to 149°F (0°C to 65°C), relative humidity (non-condensing): 0% to 95%	Indoor & outdoor use, operating temperature: -40°F to 149°F (-40°C to 65°C)
Construction	Casing: High-impact injection-molded thermoplastic	
Size and weight	Size: 4.0" Diameter x 1.5" Height, Weight: 7 oz.	
Color	White	
Mounting	Mounts directly to end of a fixture through an extended ½ inch chase nipple for deeper body fixtures, an optional Extender Adapter (MSHBSA available separately) positions the sensor flush or below the bottom of the reflector for a full field of view	
Certifications	cULus Listed	Conforms to UL STD 508, UL STD 244A, Conforms to IP65
Warranty	5 year limited	

Note: *When used with program start ballast, a 1-2 second delay from occupancy detection to lamp turn-on may be experienced.



Electrical	Harsh Environment Occupancy Sensors MSHT Series	
Power requirements	24V DC nominal, 33mA from Bryant MSCU series control unit	
Isolated relay (sensors with RP suffix)	Normally open and normally closed, terminals available	
Agency approvals	cULus Listed	
Physical	Ceiling Sensor	Wall Mount Sensor
Housing	Flame retardant UL 94 V-0 ABS	Flame retardant UL 94 V-0 Valox®
Protection	NEMA Type 4X, when used with MSP4X	NEMA Type 4X, IP66, outdoor use rated
Lens	Polyethylene	Polyethylene
Dimensions	4.5" Diameter x 1.5" Height	6"H x 2"W x 1.5"D
Color	Office White	Gray
Mounting height	8 to 12 feet	8 to 12 feet
Environmental		
Operating	-40°F to 149°F (-40°C to 65°C) with rate of change not exceeding 20°F (11°C) per hour, 0% to 95% non-condensing relative humidity	
Controls		
Time delay	Test (8 seconds), adaptive 8 to 40 minutes	
Ambient light	1 to 1000 foot candles	
Sensitivity	Adaptive 0 to 100%	
Sensing Indicators		
Passive infrared	Red LED	

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