

OPTIMYZER® High/Low Bay Occupancy & Daylight Sensors

*Advanced Occupancy
and Daylight Control*

*Superior Performance
and Coverage*

*Now Featuring
0-10V Dimming Capability*

The OPTIMYZER® sensor provides occupancy sensing and daylight harvesting for indoor lighting applications. It may be configured to turn lights OFF or to a preset dimmed level. The OPTIMYZER® is ideal for a variety of large space applications such as warehousing, gymnasiums, storage and more.

The Hubbell OPTIMYZER® sensor meets or exceeds the latest energy codes and standards, while maximizing the energy savings available from Solid-State LED lighting.



- Superior digital passive infrared (PIR) detection technology
- Choice of predetermined dimming levels
- Two integral photocells for daylight harvesting
- Lens options for customized coverage
- Zero Arc Point Switching
- Compatible with IEC 60929 standard ballasts/LED drivers

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HUBBELL®
Wiring Device-Kellems

0-10V Dimming OPTIMYZER® High Bay and Low Bay End Mount PIR Sensors

- Supports mounting heights up to 45 feet (High Bay), between 8-16 feet (Low Bay)

Description	Voltage	Catalog Number
Single relay with photocell	120-347V AC	HBS13D
1 double pole relay with photocell	208, 240V AC	HBS28D
1 double pole relay with photocell	480V AC	HBS48D
Low voltage with photocell	24V DC	HBS24D*

Note: 360° high bay lens included. Low bay lens options sold separately, see below for details.
*For use with CU300HD control unit.

Replacement Lenses and Accessories

Description	High Bay	Low Bay
180° Lens	HBRL180	LBRL180
360° Lens	HBRL360	LBRL360
Aisle lens	HBLRLA	LBLRLA
End of aisle lens	HBRLEA	LBRLEA
Mounting extension adapter	HMHBSA	HMHBSA

Specifications

Timer time-outs	8-second test mode, 4, 8, 16 and 30 minute time-outs	
Passive infrared and Daylight sensor	Dual element pyrometer and spherical Fresnel lens	
Coverage	360° lens provided, 180° aisle and end-of-aisle lenses also available	
Load ratings	120V AC: 0 to 800W ballast or tungsten	208/240V AC: 0 to 1200W ballast
Line voltage units	277V AC: 0 to 1200W ballast	480V AC: 0-2400W ballast ¼ HP motor load @ 120V AC
Low voltage units	Output: • 24V DC active high-logic control signal • Relay: N/O + N/C contacts; 500mA rated @ 24V DC; 3-wire isolated relay	
0-10V Dimming	Capable of sinking up to 30mA	
Dimming Presets Unoccupied	70%, 60%, 50%, 20%	
Full Off Timer Delay Enabled	After 60 minutes in the Unoccupied low level state, sensor will turn lighting OFF	
Full Off Timer Delay Disabled	Sensor will maintain low level setting when there is no occupancy	
Operating environment	Indoor use only Operating temperature: 32°F to 149°F (0°C to 65°C); Relative humidity (non-condensing): 0% to 95%	
Size and weight	Size: 4.0" Diameter x 1.5" Height; Weight: 7 oz.	
Mounting	Mounts directly to end of a fixture through an extended ½ inch chase nipple. For deeper body fixtures, an optional Extender Adapter (HMHBSA available separately) positions the sensor flush or below the bottom of the reflector for a full field of view	



HBS13D



HBRL180



HBRL360



HBLRLA



HBRLEA

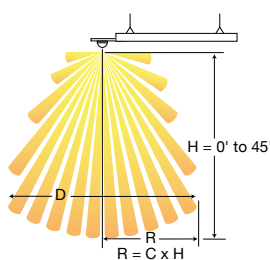


HMHBSA

Coverage Patterns

OPTIMYZER® High Bay Lens Modification: HBRL360

Minor Motion: ■ PIR Major Motion: ■ PIR

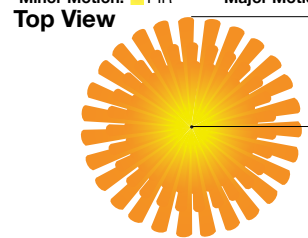


Lens Coverage
C = 1.4 @ 00-30 and 1.1 @ 30-45 (FT)

H	R	D
18	25.2	50.4
20	28	56
24	33.6	67.2
28	39.2	78.4
30	42	84
32	35.2	70.4
36	39.6	79.2
40	44	88
42	46.2	92.4
45	49.5	99

OPTIMYZER® Low Bay Lens Modification: LBRL360

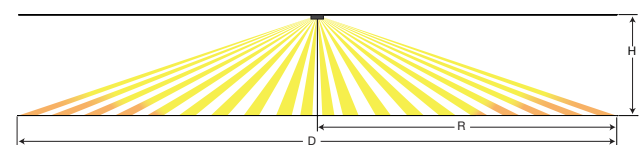
Minor Motion: ■ PIR Major Motion: ■ PIR



Lens Coverage
3:1 Ratio (FT)

H	R	D
8	24	48
10	30	60
12	36	72
14	42	84
16	48	96

Side View



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www.hubbell-wiring.com

