

DHL-LP-LED

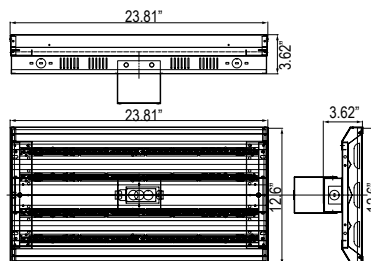
Low Profile LED Linear High/Low Bay



Job Information

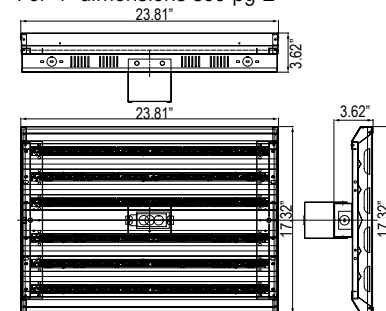
Type:	
Catalog #:	
Project:	
Comments:	
Prepared by:	

2' 65W/90W Version



2' 135W Version

For 4' dimensions see pg 2



Description

The DHL-LP-LED is an innovative interior high bay lighting luminaire that delivers top-end performance packaged into a sleek form factor. This low-profile linear high bay/low bay luminaire offers commercial and industrial building owners an all-in-one solution for illuminating their facility while drastically reducing energy consumption to aid their bottom line. The DHL-LP-LED high bay luminaire features top-quality construction, a range of lumen packages, and various control options that make it a versatile solution for commercial and industrial building owners looking to upgrade to next-generation LED technology.

Ordering Information

Example: (DHL-LP-LED-4-178-50-UNV-F-DM-PT6)

DHL-LP-LED															
Series	Size		Wattage/Lumens		Color Temp.		Voltage		Lens		Dimming		Option		Mounting
Slim Linear High Bay	2	2'	65	65W/8100 ^{1,5,7}	40	4000K	UNV	120-277V	F	Frosted ²	DM	0-10V Dimming Standard ²	CSC	Control Scope Connected	See accessories table on page 2
			90	90W/11600 ^{1,5}	50	5000K ⁷	347	347V ³					OM	Occupancy Sensor (HBP-111)	
			135	135W/17100 ^{1,3,5}			480	480V ³					MS	Motion Sensor w/Dimming (FSP-211) ⁶	
	4	4'	178	178W/23250 ^{1,5}									EM	Emergency ⁴	
			265	265W/34450 ^{1,5}									X	Microwave Sensor	
													PT6	6' Pre-Wired Cord	

¹ Delivered Lumens (4000K) - See Page 4 for full lumen chart

² Standard for this fixture.

³ 347V and 480V options utilize a step-down transformer, not available on 135W model currently

⁴ EM Pack not available with 347V or 480V options currently.

⁵ DLC Listed wattage (Please see additional information on Page 4)

⁶ Please specify mounting height for appropriate sensor coverage (see page 6)

⁷ 5000K not available for 65W model currently

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Accessories (Ordered and Shipped Separately)

OPTIONS	
DHL-LP-WG-2-4L	2' 4-Lamp Wire guard for DHL-LP High bay (65W,90W Housing)
DHL-LP-WG-2-6L	2' 6-Lamp Wire guard for DHL-LP High bay (135W Housing)
DHL-LP-WG-4-4L	4' 4-Lamp Wire guard for DHL-LP High bay (178W)
DHL-LP-WG-4-6L	4' 6-Lamp Wire guard for DHL-LP High bay (265W)
MOUNTING	
DHL-LP-4L-SU	Surface Mount Kit For High-bay Flat Panel (2pc) Set (65W,90W,178W Housing)
DHL-LP-SU	Surface Mount Kit For High-bay Flat Panel (2pc) Set (135W,265W Housing)
DHL-LP-HOOK	V HOOK Mounting Kit High-bay Flat Panel (2 per) (65W,90W,178W Housing)
DHL-LP-HOOK-6L	V HOOK Mounting Kit High-bay Flat Panel (2 per) (135W,265W Housing)
DHL-LP-CHAIN	Mounting Chain For High-bay Flat Panel, 41" (Must Be ordered with V-HOOK)
DHL-LP-CHAIN-2M	Mounting Chain For High-bay Flat Panel, 78" (Must Be ordered with V-HOOK)
DHL-LP-CHAIN-3M	Mounting Chain For High-bay Flat Panel, 118" (Must Be ordered with V-HOOK)
DHL-LP-CENTER BOX	Mounting Center Box For High-bay Flat Panel 20 Gua. For Stem Use
S12 (Part#290125 & C545Wht)	12" 3/8" IPS Stem Gloss White (5/8" OD) (Must be ordered with DHL-LP-CENTER BOX)
S18 (Part#290138 & C545Wht)	18" 3/8" IPS Stem Gloss White (5/8" OD) (Must be ordered with DHL-LP-CENTER BOX)
S24 (Part#290182 & C545Wht)	24" 3/8" IPS Stem Gloss White (5/8" OD) (Must be ordered with DHL-LP-CENTER BOX)
S36 (Part#290137 & C545Wht)	36" 3/8" IPS Stem Gloss White (5/8" OD) (Must be ordered with DHL-LP-CENTER BOX)
S48 (Part#290126 & C545Wht)	48" 3/8" IPS Stem Gloss White (5/8" OD) (Must be ordered with DHL-LP-CENTER BOX)
DEC4011003-6	Universal Yoke and Toggle Aircraft Cable Suspension Kit 6'
DEC4011003-10	Universal Yoke and Toggle Aircraft Cable Suspension Kit 10'
DEC4011003-15	Universal Yoke and Toggle Aircraft Cable Suspension Kit 15'

Features

Construction

Rugged and durable construction withstands warehouse environments with an IP54 rating. Luminaire features durable, matte white finish.

Optical System

Reflector systems features highly reflective coating, delivering adequate light for high ceiling applications. Diffuser lens reduces glare and improves occupant working conditions while maintaining high efficiencies.

Certifications

UL Listed, suitable for Dry and Damp locations (not Wet location)
 UL Class 2 Driver: SCP, OTP, OVP protection, FCC Part 15 Class B, UL8750 Class 2.
 DLC Premium Listed, refer to lumen chart on Page 4

Electrical

Luminaire utilizes high-efficacy LED packages running at low operating temperatures for extended fixture lifetime. Universal voltage (120-277V) for convenient installation, 347 & 480V Optional Comes equipped with luminaire quick-disconnect.

Installation / Mounting

Various mounting options available, including suspension, pendant, and surface mount. V-hook hangers and chain accessories available.

Controls / Dimming

Continuous dimming (0-10V) comes standard. Suitable for use with dimmers, sensors, daylight harvesting and other control strategies to achieve deeper energy-savings

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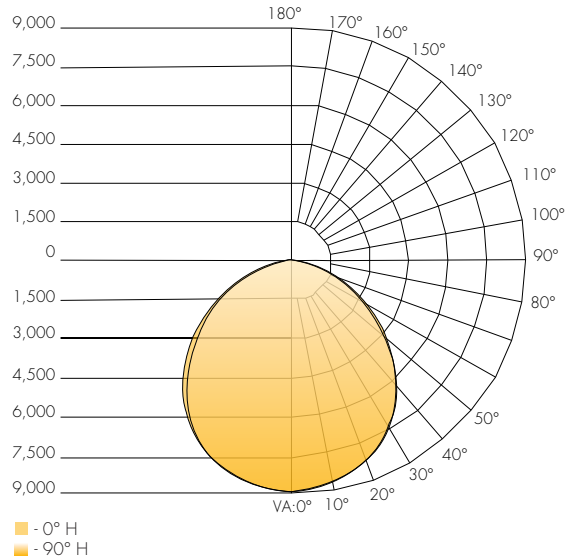
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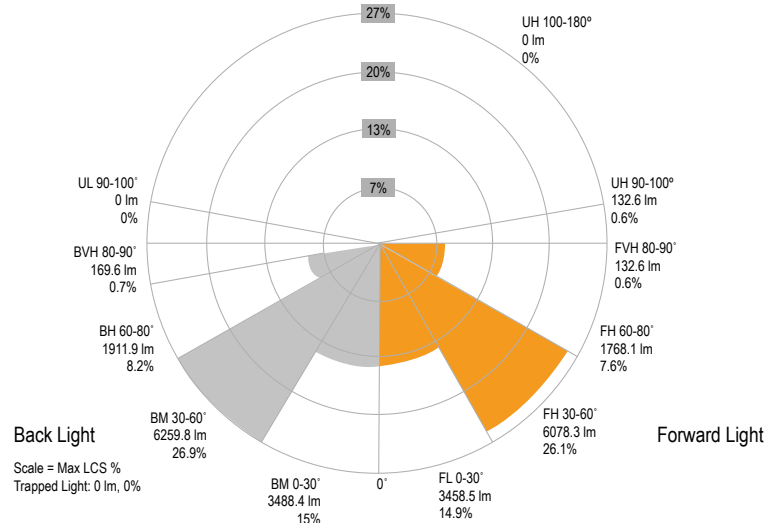
Photometric Data

4' 178W 4000K

Polar Candela Distribution



LCS Graph



Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50				30				10				0
RW %:	70	50	30	0	70	50	30	0	50	30	20	10	50	30	20	10	50	30	20	10	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.02	1.02	1.02	1.00
1	1.09	1.05	1.01	.97	1.07	1.03	.99	.86	.98	.95	.93	.95	.92	.90	.91	.89	.87	.85	.83	.81	.72
2	1.00	.92	.86	.80	.97	.90	.84	.73	.87	.82	.77	.84	.79	.76	.81	.77	.74	.72	.69	.67	.61
3	.91	.81	.74	.67	.89	.80	.73	.63	.77	.71	.66	.74	.69	.64	.72	.67	.63	.61	.58	.56	.53
4	.84	.72	.64	.57	.82	.71	.63	.54	.69	.62	.56	.66	.60	.56	.64	.59	.55	.53	.50	.48	.46
5	.77	.65	.56	.50	.75	.64	.56	.48	.62	.54	.49	.60	.53	.48	.58	.52	.48	.46	.43	.41	.40
6	.72	.59	.50	.44	.70	.58	.49	.42	.56	.48	.43	.54	.48	.43	.53	.47	.42	.40	.37	.35	.36
7	.66	.53	.45	.39	.65	.52	.44	.38	.51	.44	.38	.49	.43	.38	.48	.42	.38	.36	.33	.31	.32
8	.62	.49	.40	.35	.60	.48	.40	.34	.47	.39	.34	.45	.39	.34	.44	.38	.34	.32	.29	.27	.28
9	.58	.45	.37	.31	.56	.44	.36	.30	.43	.36	.31	.42	.35	.31	.41	.35	.31	.29	.26	.24	.25
10	.54	.41	.33	.28	.53	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.26	.23	.21	.22

Zonal Lumen Summary

Zone	Lumens	%Luminaire
0-30	6,946.7	29.9%
0-40	11,326.6	48.7%
0-60	19,282.3	82.9%
60-90	3,982.3	17.1%
70-100	1,543.1	6.6%
90-120	0.000	0%
0-90	23,264.5	100%
90-180	0.000	0%
0-180	23,264.5	100%



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DHL-LP-LED

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Performance Data

CRI:	84+
CCT:	4000K, 5000K
Warranty:	10 yr. Warranty including Labor Allowance
Dimming:	0-10V Dimming Standard
Operating Temperature:	-30°C to +52°C Ambient (-22°F to +125°F)
IP Rating:	IP54, suitable for Damp Locations
Lifetime Ratings:	295,000 Hours (L70); 190,000 Hours (L80)
Harmonic Distortion:	<10%
Power Factor:	>0.95
Sound Rating:	Class A (inaudible in a 24dB ambient environment)
Weight:	2': 10lbs. (4.5kg.) 4': 20lbs (9.0kg.)

Lumen Chart

Lens Type	Form Factor	Nominal Wattage	System Wattage	DLC Premium	5000K		4000K		Recommended Light Source Comparison
					Delivered Lumens	Efficacy (lm/W)	Delivered Lumens	Efficacy (lm/W)	
Frosted	2'	65	63	YES	--	--	8100	129	175W MH
		90	88	YES	11700	133	11600	132	250W MH
		135	132	YES	17150	130	17100	130	400W MH, 4-54W T5HO
	4'	178	176	YES	23450	133	23250	132	6-lamp T5HO
		265	266	YES	34700	130	34450	130	1000W MH, 8-lamp T5HO

Wire Guard

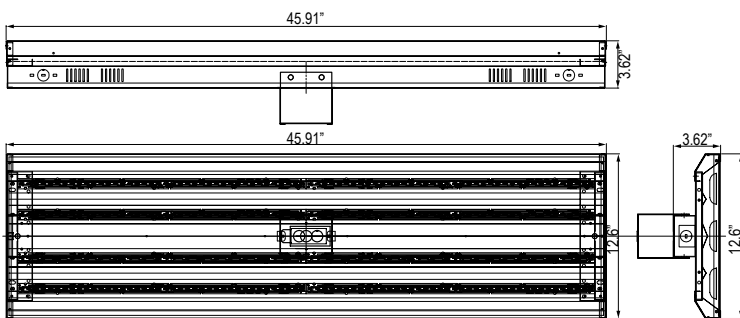


Projected LED Maintenance

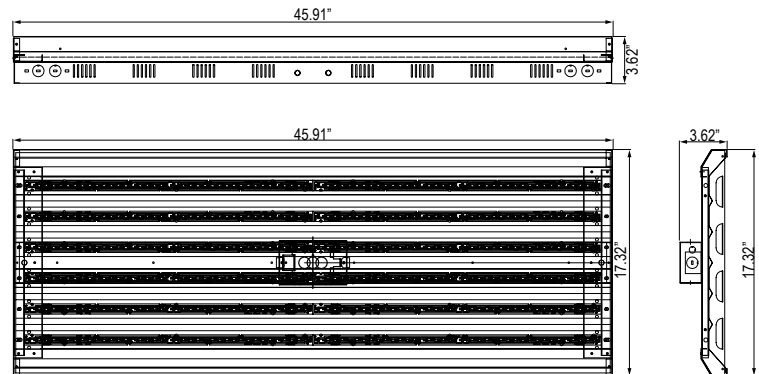
Operating Hours	0	50,000	100,000	150,000	200,000
Lumen Maintenance Factor	1	0.96	0.90	0.84	0.79

25°C Ambient Interior Temp

4' Dimensions



4' 178W Version



4' 265W Version



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DHL-LP-LED

Low Profile LED Linear High/Low Bay

Occupancy Sensor

The HBP-100 series occupancy sensors are designed for automatic lighting control in high or low bay applications. All models contain a passive infrared (PIR) sensor and a lens engineered to provide reliable coverage from a wide range of mounting heights.

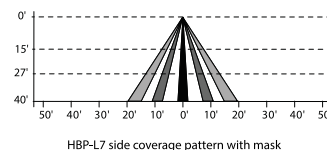
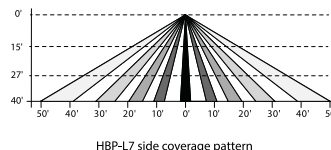
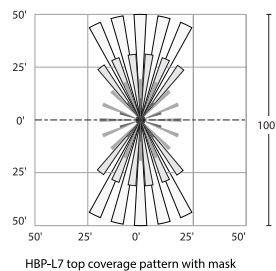
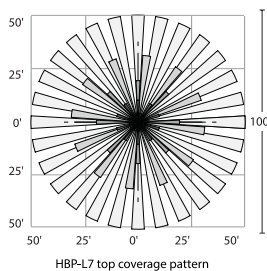
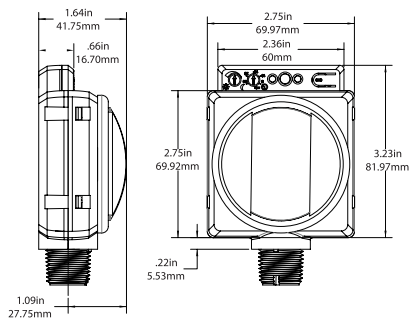
Sensitivity and time delay adjustments are set using trimpots conveniently located on the sensor module. The HBP-111 can also be adjusted remotely using a handheld configuration tool (FSIR-100).

Both models include a hold-off daylighting light level feature to prevent lighting from turning on when occupancy is detected when there is sufficient ambient light available.

The HBP-111 includes extra features that can be enabled or disabled via the FSIR-100. Features include burn-in mode, walkthrough mode, visual alert and occupancy mode.



- Indoor use only
- Operating Temperature: 32°F to 158°F (0°C to 70°C)
- Operating Humidity: 5% to 95%, non-condensing
- Line voltage for direct connection to load 120, 277, 347V, 60Hz or 230V, single phase 50Hz operation
- Power consumption: 0.2W
- Adjustable hold-off daylighting level
- Flexible mounting option
- Snap-in mounting hardware
- UL and cUL listed
- Easy mounting using knockout at end of remove high bay luminaire
- Weight 6.4oz (181g)
- Adjustable time delay and sensitivity



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DHL-LP-LED

Low Profile LED Linear High/Low Bay

Step Dimming & Bi-Level

FSP-211B-D

The FSP-2x1B is a family of passive infrared (PIR) outdoor sensors that raise or lower the electric lighting level to high, low or off based on motion and/ or daylight contribution. Typically, once the sensor stops detecting movement and the time delay elapses, lights will first fade to low mode, and eventually switch off. When motion is detected, the sensor ramps the light level to high mode unless the daylight contribution is sufficient.

The integral photocell can also switch the lights on and off for dusk to dawn control, so that lighting remains on overnight even without motion detection.

The sensors control 0-10VDC or nondimming LED drivers or ballasts. The low voltage FSP-201B may be used with dim-to-off drivers or ballasts.

Initial setup and subsequent sensor adjustments are made using a Wireless Handheld Configuration Tool (FSIR-100). This tool enables adjustment of sensor parameters including high/low mode, sensitivity, time delay, cut off and more.

The FSIR-100 can read current parameter settings, and stores up to six sensor parameter profiles to speed commissioning of multiple sensors.

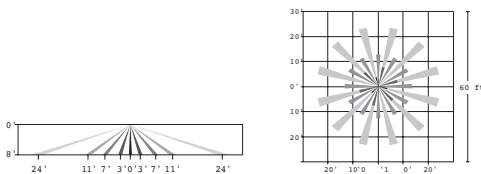
The FSP-2x1B family is available in three configurations for mounting inside a fixture, to the outside of a fixture or enclosure via a 1/2" knockout, or to a pole.



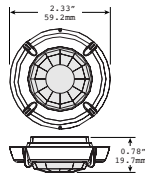
Coverage & Dimensions

The FS-Lx lenses work with FSP-211 motion sensors to provide multi-level lighting control based on motion and the ambient light level. Four lens choices provide flexibility for varying mounting heights.

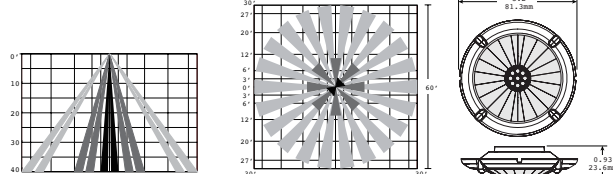
FSP-L2



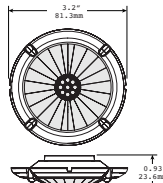
360° lens, maximum coverage 48' diameter from 8' height



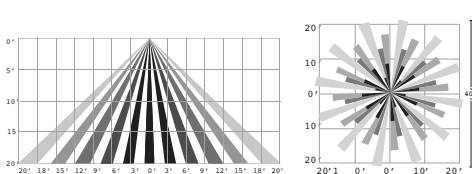
FSP-L4



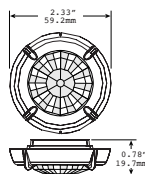
360° lens, maximum coverage 60' diameter from 40' height



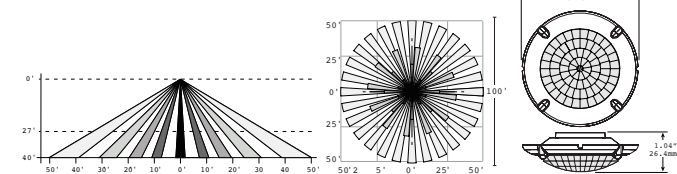
FSP-L3*



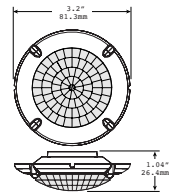
360° lens, maximum coverage 40' diameter from 20' height



FSP-L7



360° lens, maximum coverage 100' diameter from 40' height



***When a Motion Sensor (MS) option is ordered, the default lens type shipped with luminaire is FSP-L3. If another lens type is desired (L2, L4, or L7), it will ship separately to be changed out by the installer.**



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IP65 Microwave Motion Sensor



Description

The MC031V sensor is innovative and active motion detectors with HF system 5.8GHz. Motion can be detected through plastic, glass and thin non-metal materials. except the higher mounting height 15m Max.

The sensors allow energy saving without compromising comfort. When used in combination with 1-10V dimmable LED drivers or ballasts, they can achieve 3-step dimming function, which is perfect for use in some areas that requires a light change notice before totally switch off.

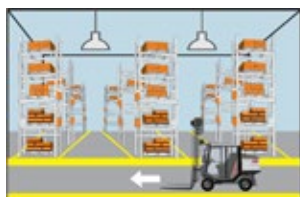
Also, the 1-10V interface in the sensors can match up with Merrytek stand-alone daylight sensor MS01, and implement daylight harvesting, means the lighting system has automated controls that either turn off or dim artificial light in response to the available daylight in the space.

Features

- Automatic dimming when used in combination with 1-10V dimmable LED drivers or ballasts.
- Built-in adjustable daylight sensor.
- 1-10V interface can match up with Merrytek stand-alone daylight sensor MS01 and achieve daylight harvesting.
- Detection area, time delay and daylight threshold can be precisely set via DIP switch.
- Wide detection area, range up to 16m in diameter and mounting height 15M Max. suitable for warehouse use.
- Optional mounting brackets for different application.

Dimming Function

When used in combination with 1-10V dimmable LED drivers and ballasts, the sensors can achieve 3-step dimming function, 100%---> low light--->off. And the sensors build in adjustable daylight sensors, very easy to install and cost-effective.



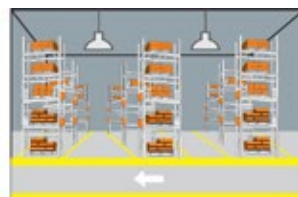
With sufficient ambient light, the sensor does not switch on the lamp.



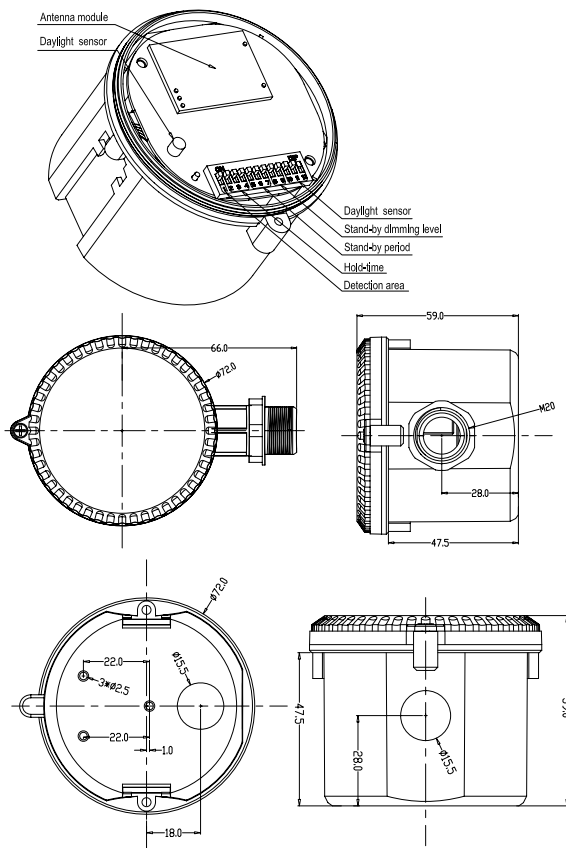
With insufficient ambient light, the sensor switches on the lamp when motion is detected.



After hold time, the sensor dims the lamp at a low light level if no new motion trigger.

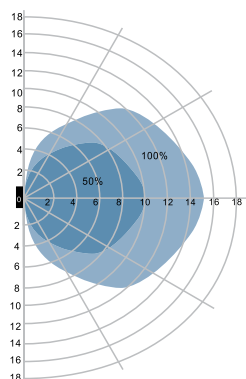


After stand-by period, the sensor switches off the lamp if no motion is detected in its detection zone.

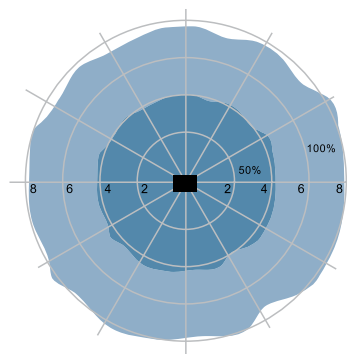


IP65 Microwave Motion Sensor

Detection Pattern



Wall mounting pattern (Unit: m)



Ceiling mounting pattern (Unit: m)

Detection Pattern

By selecting the combination on the DIP switch, sensor data can be precisely set for each specific application.

ON		1	
I	ON	100%	
II	—	50%	

Detection Area

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely each application.

ON		2	3	4	
I	ON	ON	ON	5s	
II	—	ON	ON	30s	
III	ON	—	ON	90s	
IV	—	—	ON	3min	
V	ON	ON	—	20min	
VI	—	—	—	30min	

Hold Time

Refers to the time period the lamp remains at 100% illumination after no motion detected.

ON		5	6	7	
I	ON	ON	ON	+∞	
II	—	ON	ON	60min	
III	ON	—	ON	30min	
IV	—	—	ON	10min	
V	ON	ON	—	5min	
VI	—	—	—	5s	

Stand-by Period

Refers to the time period the lamp remains at a low light level before it completely switches off in the long absence of people. When set to Disable Mode, the light is maintained until motion is detected.

ON		8	9	
I	ON	ON	50%	
II	—	ON	30%	
III	ON	—	20%	
IV	—	—	10%	

Stand-by Dimming Level

The low light level you would like to have after the hold time in the long absence of people.

ON		10	11	12	
I	ON	ON	ON	Disable	
II	—	ON	—	200lux	
III	ON	—	—	100lux	
IV	—	—	—	50lux	

Daylight Sensor

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold.

When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light level.

Note that daylight sensor is active only when lamp totally switches off.