

WATTSTOPPER®

OEM SENSOR GUIDE



INTEGRATED LIGHTING CONTROLS



designed to be better.™



INTEGRATED LIGHTING CONTROLS

Why Choose Wattstopper?

Leveraging over 50 years of high performance sensor development, Wattstopper sensors are more technologically advanced than any other leading brand.

Embedding controls directly into the lighting fixture maximizes the return on the lighting investment. Wattstopper fixture integrated sensors are engineered for optimal performance. Even in the most challenging applications effective lighting control provides significant energy savings.

What's Available?

Wattstopper offers one of the industry's most expansive selections of fixture integrated control products. With a control solution for nearly every fixture type, Wattstopper is a name you can rely on for industry-leading performance, reliability, and service.

Wattstopper offers an extensive line of both indoor and outdoor occupancy sensors utilizing a variety of sensing technologies to ensure optimal performance in any environment. Contact your local Wattstopper Representative or visit us online at legrand.us/wattstopper to learn even more about our extensive product lines.

How Do You Benefit?

Wattstopper works hand-in-hand to ensure your customer's have the best possible lighting and controls experience. Wattstopper controls paired with luminaires from the factory provides peace of mind that our products will work together directly out of the box.

Partnering with fixture manufacturers, we are able to deliver innovative, high-quality lighting products. When you choose Wattstopper controls you're leveraging one of the most trusted names in the industry to ensure a hassle-free controls experience. Together our success is built on you, our customer, we strive to provide you superior quality with every product and superior customer service with every transaction.



ENERGY EFFICIENCY AT THE FIXTURE LEVEL

With nearly every facility looking to increase efficiency, retrofitting lighting fixtures that feature fixture-specific occupancy sensors maximizes your energy savings. With individual fixture control, facilities can substantially improve energy performance by implementing simple control strategies such as automatic off or intensity control. For retrofit projects, energy-efficiency rebates, or facilities seeking LEED certification, maximizing energy performance through fixture-integrated control is ideal.

Benefit your customer or business in many ways:

- Provide energy savings by reducing lighting usage.
- Comply with energy codes such as Title 24, ASHRAE 90.1, IECC, and other energy codes.
- Enhance 'green' building practices, such as LEED, for greater sustainability.

Wattstopper offers a broad selection of fixture-integrated control products. With a solution for nearly every fixture type, Wattstopper is a name you rely on for consistent performance, reliability, and service.

While lighting sources continue to increase in efficiency, lighting still accounts for approximately 30% of the total electrical load in non-residential buildings. Every major energy code and sustainable building practice system recognizes that automatic lighting control plays a vital role in any successful energy efficiency program.

Some of the best opportunities include exterior lighting, warehouses, stairwells, and specialty applications. Bundling controls into your lighting solutions brings additional value to your customers, resulting in energy savings ranging from 30-40%.

CHOOSING A SENSOR IN FOUR EASY STEPS:

1. Applications Space

- Each sensing technology is best suited for a particular applicable space



Passive Infrared (PIR) is best suited to open spaces where ambient temperature of the sensing area is below 40C (100F). PIR senses body heat; if the ambient environment of the sensing area is near the temperature of the human body, the sensor is less likely to perform at its peak.



Ultrasonic is best suited to confined spaces like offices, conference rooms, or bathrooms. Ultrasonic sensors create a constant ultrasonic signal inside a confined space and senses disruptions in the signal. This is ideal for detecting minor motion or sensing occupancy within a bathroom. If ultrasonic is used in an open area, the ultrasonic signal is weak and detection is limited.



Dual Technology combines both PIR and ultrasonic into a single sensor. These sensors can work in both open and confined spaces. The sensing technology that is best suited for the environment will act as the dominate sensing technology. These sensors are useful if the final application space is unknown.



Microwave sensors can detect motion even when completely concealed behind non-metallic materials. These sensors can detect motion through walls or ceiling tiles, and they are often integrated out of sight within a lighting fixture. Without proper calibration, these sensors can detection motion beyond your target detection area.



2. Mountings Height/Coverage (PIR technology only)

- Choose the appropriate lens for a PIR sensor is critical to maximize sensor performance
- Lens coverage information is included at the end of this document

Focusing the PIR sensor's detection area enables more precise and accurate detection. Wattstopper offers a variety of lenses to choose from, all of which are tailored to specific mounting height or desired detection area. Wattstopper uses the best performing lens available to ensure our sensors give the best possible performance.

3. Voltage and Ambient Temperature Requirement

- Choosing the appropriate voltage and ambient temperature range to meet your installation environment

Wattstopper offers a variety of operating voltage and ambient temperature options in our extensive occupancy sensor line. From low voltage to dual-phase high voltage, from -40C to +70C, we have a sensor that will meet your application requirements.

4. Configuration Type

- How often will your customer make changes to the sensor's energy management settings?
- How easy will making changes be for the fixture manufacturer or the electrical contractor?

Adjusting your sensor configuration settings will maximize the energy savings it provides. Wattstopper offers sensors that are adjustable many ways.

On-board switches are the most cost-effective method of configuring your sensor. On-board switches offer limited adjustability and require physical contact with the sensor to make adjustments. If you're configuring the sensor during installation and don't intend on adjustments being made in the future, then these sensors are a great, cost-effective way to enhance energy efficiency.

Infrared (IR) configuration is accomplished by a handheld remote control. The remote control allows the sensor to be configured from up to 40ft away. These sensors have more configuration settings available to maximize energy savings.

Bluetooth (BLE) configuration is accomplished through a smartphone application. Using Bluetooth allows the sensor to be configured from up to 400ft away. The application offers the most flexibility when configuring the sensor. Bluetooth is also less susceptible to environmental interference.

PARKING GARAGES AND LOTS

Enable energy savings without compromising safety and security, by providing occupancy-based intensity control.

FSP SERIES



HB SERIES



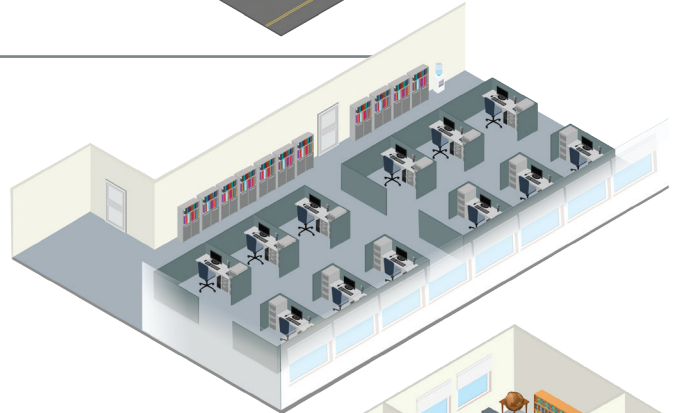
OFFICE SPACES

From sleek, low-profile passive infrared controls to ultra-high-frequency sensors invisible to view, occupancy sensors offer convenient automatic shutoff of office lighting.

FSP SERIES



FS SERIES



STAIRWELLS

Energy codes mandate occupancy and daylighting responsive light level reduction in these spaces.

FSP SERIES



FS SERIES



FREEZER CASES

Pairing rugged occupancy sensors with LED lighted freezer cases can offer up to 70% in lighting energy savings.

FS-705



FSP SERIES



WAREHOUSES AND DISTRIBUTION CENTERS

Robust high bay occupancy sensors provide pinpoint control of aisleway, rack, and common area lighting for substantial energy savings even in 24/7 operations.

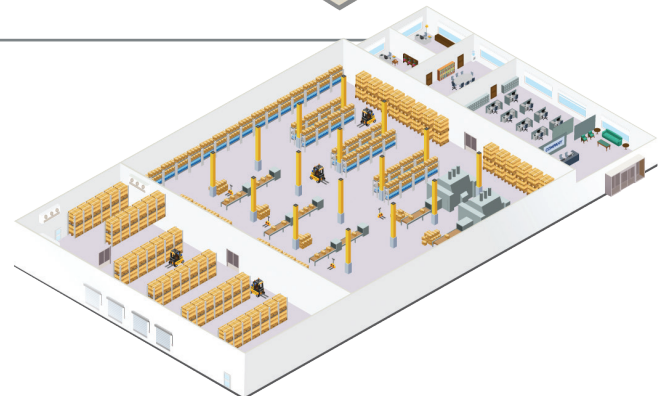
FSP SERIES






















HBP SERIES






















HB SERIES



FIXTURE SENSORS & CONTROLS

MODEL		DESCRIPTION	INPUT VOLTAGE							OPERATING TEMPERATURE	MOUNTING HEIGHT				MTG OPT		RATINGS	DETECTION	COMMISSIONING	DIMMING	MATERIALS
			12V	24V	120V	208V	240V	277V	347V		480V	8 feet	10 feet	20 feet	40 feet	INTERNAL					
FIXTURE SENSORS																					
FSP-201		Wet Location Passive Infrared Occupancy Sensor	●	●						-40C -75C	●	●	●	●	●	UL/cUL, TUV, CE, IP66	PIR	IR	0-10V	PC, ROHS	
FSP-211		Wet Location Passive Infrared Occupancy Sensor			●	●	●	●		-40C -75C	●	●	●	●	●	UL/cUL, TUV, CE, IP66	PIR	IR	0-10V	PC, ROHS	
FSP-201B		Wet Location Passive Infrared Occupancy Sensor	●	●						-40C -75C	●	●	●	●	●	UL/cUL, IP66	PIR	IR	0-10V	PC, ROHS	
FSP-211B		Wet Location Passive Infrared Occupancy Sensor			●	●	●	●		-40C -75C	●	●	●	●	●	UL/cUL, IP66	PIR	IR	0-10V	PC, ROHS	
FSP-221B		Wet Location Passive Infrared Occupancy Sensor			●	●	●	●	●	-40C -75C	●	●	●	●	●	UL/cUL, IP66	PIR	IR	0-10V	PC, ROHS	
FSP-202		Wet Location Passive Infrared Occupancy Sensor	●	●						-40C -75C	●	●	●	●	●	UL/cUL, IP66	PIR	SWITCHES	0-10V	PC, ROHS	
FSP-212		Wet Location Passive Infrared Occupancy Sensor			●	●	●	●		-40C -75C	●	●	●	●	●	UL/cUL, IP66	PIR	SWITCHES	0-10V	PC, ROHS	
FSP-301		Wet Location Passive Infrared Occupancy Sensor	●	●						-40C -75C	●	●	●	●	●	UL/cUL, FCC, IP66	PIR	BLE	0-10V	PC, ROHS	
FSP-311		Wet Location Passive Infrared Occupancy Sensor			●	●	●	●		-40C -75C	●	●	●	●	●	UL/cUL, FCC, IP66	PIR	BLE	0-10V	PC, ROHS	
FSP-321		Wet Location Passive Infrared Occupancy Sensor			●	●	●	●	●	-40C -75C	●	●	●	●	●	UL/cUL, FCC, IP66	PIR	BLE	0-10V	PC, ROHS	
FSP-301B		Wet Location Passive Infrared Occupancy Sensor	●	●						-40C -75C	●	●	●	●	●	UL/cUL, FCC, IP66	PIR	BLE	0-10V	PC, ROHS	
FSP-311B		Wet Location Passive Infrared Occupancy Sensor			●	●	●	●		-40C -75C	●	●	●	●	●	UL/cUL, FCC, IP66	PIR	BLE	0-10V	PC, ROHS	
FSP-321B		Wet Location Passive Infrared Occupancy Sensor			●	●	●	●	●	-40C -75C	●	●	●	●	●	UL/cUL, FCC, IP66	PIR	BLE	0-10V	PC, ROHS	
HB300W		Wet Location Passive Infrared Occupancy Sensor	●							-40C-70C	●	●	●	●	●	UL/cUL, IP65, UL 244A, UL 508	PIR	SWITCHES		PC, ROHS	
HB330W		Wet Location Passive Infrared Occupancy Sensor			●	●				-40C-70C	●	●	●	●	●	UL/cUL, IP65, UL 244A, UL 508	PIR	SWITCHES		PC, ROHS	
HB340W		Wet Location Passive Infrared Occupancy Sensor						●	●	-40C-70C	●	●	●	●	●	UL/cUL, IP65, UL 244A, UL 508	PIR	SWITCHES		PC, ROHS	
HB350W		Wet Location Passive Infrared Occupancy Sensor		●			●			-40C-70C	●	●	●	●	●	UL/cUL, IP65, UL 244A, UL 508	PIR	SWITCHES		PC, ROHS	
HB300C		Cold Location Passive Infrared Occupancy Sensor	●							-40C-55C	●	●	●	●	●	UL/cUL	PIR	SWITCHES		ABS, ROHS	
HB350C		Cold Location Passive Infrared Occupancy Sensor		●			●			-40C-55C	●	●	●	●	●	UL/cUL	PIR	SWITCHES		ABS, ROHS	
HB300B-Lx		High Bay Occupancy Sensor with Lens & Backbox	●							0C-70C	●	●	●	●	●	UL/cUL	PIR	SWITCHES		ABS, ROHS	

FIXTURE SENSORS & POWER PACKS

MODEL		DESCRIPTION	INPUT VOLTAGE							OPERATING TEMPERATURE	MOUNTING HEIGHT				MTG OPT		RATINGS	DETECTION	COMMISSIONING	DIMMING	MATERIALS
			12V	24V	120V	208V	240V	277V	347V		480V	8 feet	10 feet	20 feet	40 feet	INTERNAL					
FIXTURE SENSORS (CONTINUED)																					
HB330B-Lx		High Bay Occupancy Sensor with Lens & Backbox				●	●			0C-70C	●	●	●	●		●	UL/cUL	PIR	SWITCHES		ABS, ROHS
HB340B-Lx		High Bay Occupancy Sensor with Lens & Backbox							●	●	0C-70C	●	●	●	●	●	UL/cUL	PIR	SWITCHES		ABS, ROHS
HB350B-Lx		High Bay Occupancy Sensor with Lens & Backbox			●			●		0C-70C	●	●	●	●		●	UL/cUL	PIR	SWITCHES		ABS, ROHS
HBP-111		Passive Infrared Occupancy Sensor			●			●		0C - 55C	●	●	●	●		●	UL/cUL	PIR	IR		PC, ROHS
HBP-112		Passive Infrared Occupancy Sensor			●			●		0C - 55C	●	●	●	●		●	UL/cUL	PIR	SWITCHES		PC, ROHS
FS-3x5		Passive Infrared Occupancy Sensor	●	●	●	●				-40C-55C	●	●	●		●		UL/cUL	PIR	IR	0-10V	PC, ROHS
FS-155		Passive Infrared Occupancy Sensor			●			●		0C - 55C	●	●	●		●		UL/cUL	PIR	IR		ABS, ROHS
FS-205		Passive Infrared Occupancy Sensor	●							-40C-55C	●	●	●		●		UL/cUL	PIR	IR		ABS, ROHS
FS-5x5		Ultrasonic Fixture Integrated Occupancy Sensor	●	●				●		-40C-55C	●	●	●		●		UL/cUL	ULTRA SONIC	IR		ABS, ROHS
FM-105		Integrated Occupancy Sensor			●			●		-20C-55C	●	●	●	●	●		UL/cUL, FCC	MICROWAVE	SWITCHES		PC, ROHS
FS-705		Wide Angle Passive Infrared Occupancy Sensor	●							0C-55C	●	●			●		UL/cUL	PIR	IR	0-10V	ABS, ROHS
FD-301		Fixture Integrated Daylight Dimming Photosensor	●							-20C-50C	●	●	●	●	●		UL/cUL		IR	0-10V	ABS, ROHS
POWER PACKS																					
FS-PP		Fixture Integrated Power Pack			●			●		0C-55C							UL/cUL				ABS, ROHS
BZ-50		Power Pack			●			●		0C-55C							UL/cUL				ABS, ROHS
BZ-150		Power Pack			●			●		0C-55C							UL/cUL				ABS, ROHS
BZ-200		LED Fixture Power Pack			●		●	●		0C-40C							UL/cUL			0-10V	ABS, ROHS
BZ-250		LED Fixture Power Pack			●		●	●		0C-40C							UL/cUL			0-10V	ABS, ROHS
CONFIGURATION TOOLS																					
FSIR-100		IR Configuration Tool																IR			ABS, ROHS
SENSOR CONFIGURATION APP		Bluetooth Configuration Tool																BLE			

WATTSTOPPER®

FIXTURE SENSORS & CONTROLS

LENSES FOR PASSIVE INFRARED FIXTURE-INTEGRATED OCCUPANCY SENSORS

FSP-LX SERIES

Three interchangeable lenses for
FSP series fixture sensors

IP66 rated when installed in
outdoor-rated fixture

Lenses available in 4 colors

Coverage choices for mounting
heights between 8 and 40 feet



Mounts easily onto sensor module
from fixture exterior

Description

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

Operation

The lenses mount onto the sensor body from the exterior of the fixture, threading onto the sensor module's threaded collar. Three 360° lens choices provide coverage from 8, 20, and 40 foot mounting heights. The FSP-L2 provides maximum coverage of 48' diameter mounted at eight feet. The FSP-L3 provides maximum coverage of 40' diameter mounted at 20 feet. The wide angle FSP-L7 provides maximum coverage of 100' diameter mounted at 40 feet.

Wet Location Rating

When fully assembled and installed in an outdoor-rated fixture, FSP sensors and FSP-Lx lenses are IP66 rated. To obtain this rating, the device underwent extremely rigorous testing. The IP66 rating means the device is completely protected against dust and against water jets from all directions.

Applications

FSP series sensors with FSP-Lx lenses are ideal for damp or wet indoor or outdoor locations. They are suitable for use in luminaires installed in parking facilities, gas stations, pedestrian pathways, warehouses, and other harsh locations.

Features

- IP66 rated (when fully assembled with an FSP series sensor and installed in IP66 rated fixture) for use in wet location environments (indoor and outdoor)
- Polycarbonate, flame retardant, UV resistant, impact resistant
- Recyclable
- This product meets the materials restrictions of RoHS

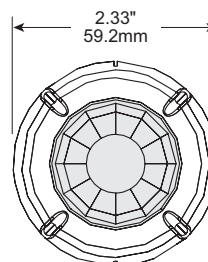
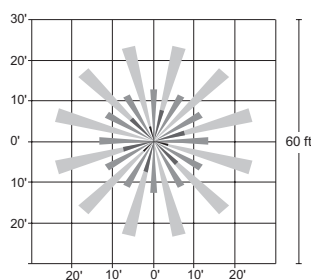
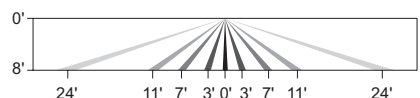
PROJECT	LOCATION/ TYPE
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Specifications

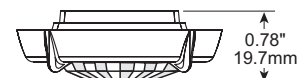
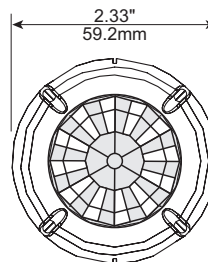
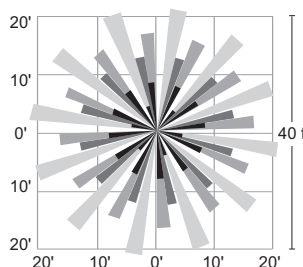
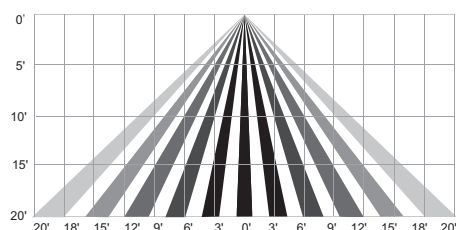
- Operating temperature: -40–167°F (-40–75°C)
- Storage temperature: -40–176°F (-40–80°C)
- Operating Humidity: 20–90%
- Five-year warranty

Coverage & Dimensions

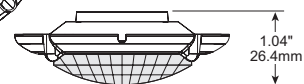
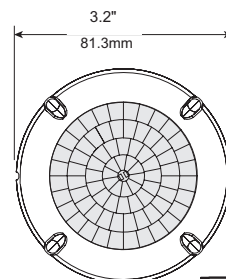
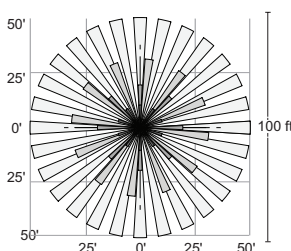
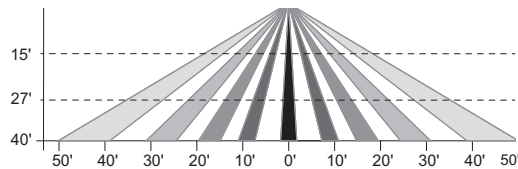
FSP-L2



FSP-L3



FSP-L7



Ordering Information

Catalog #	Color	Description
<input type="checkbox"/> FSP-L2	White	360° lens, maximum coverage 48' diameter from 8' height
<input type="checkbox"/> FSP-L2-B	Black	
<input type="checkbox"/> FSP-L2-BR	Brown	
<input type="checkbox"/> FSP-L2-G	Grey	
<input type="checkbox"/> FSP-L3	White	360° lens, maximum coverage 40' diameter from 20' height
<input type="checkbox"/> FSP-L3-B	Black	
<input type="checkbox"/> FSP-L3-BR	Brown	
<input type="checkbox"/> FSP-L3-G	Grey	
<input type="checkbox"/> FSP-L7	White	360° lens, maximum coverage 100' diameter from 40' height
<input type="checkbox"/> FSP-L7-B	Black	
<input type="checkbox"/> FSP-L7-BR	Brown	
<input type="checkbox"/> FSP-L7-G	Grey	

WATTSTOPPER®

FIXTURE SENSORS & CONTROLS | FIXTURE SENSORS

LENSES FOR PASSIVE INFRARED FIXTURE-INTEGRATED OCCUPANCY SENSORS

FS-LXW

Four interchangeable
lenses for FS-3x5
fixture sensors

Coverage choices
for mounting heights
between 8-40 feet



Mounts easily onto
sensor component from
fixture exterior

Description

FS-Lx lenses work with FS-305/FS-355 occupancy sensors to turn lights on and off automatically based on occupancy. Four lens choices provide flexibility for varying mounting heights.

Operation

The lenses mount onto the sensor body from the exterior of the fixture, threading onto the FS-305/FS-355 threaded collar. Four 360° lens choices provide coverage at 8, 20, and 40 foot mounting heights. The FS-L2W provides maximum coverage of 48' diameter mounted at eight feet, the FS-L3W provides maximum coverage of 40' diameter mounted at 20 feet, and the FS-L6 provides maximum coverage of 20' diameter mounted at eight feet. The FS-L7W and FS-L7-G provide coverage of 100' diameter mounted at 40 feet.

Features

- IP65 and UL 244A and 508 rated (when fully assembled and installed) for use in wet location environments (indoor and outdoor)
- Fixed sensitivity optimized for FS-LxW and FS-L6 lens coverages
- Polycarbonate, flame retardant, UV resistant, impact resistant (FS-LxW lenses)
- Recyclable

Wet Location Rating

When fully assembled and installed, the FS-305/FS-355 sensors and FS-L2W, FS-L3W, FS-L7W, and FS-L7-G lenses are IP65 and UL 244A and 508 rated. To obtain this rating, the device underwent extremely rigorous testing. The IP65 rating means the device is totally protected against dust and low-pressure jets from all directions.

Applications

FS-305/FS-355 sensors with FS-LxW lenses are ideal for damp or wet indoor or outdoor locations. They are suitable for use in parking garages and in parking lot luminaires. When equipped with the FS-L6 lens, the sensor provides superior coverage in any dry indoor application.

PROJECT

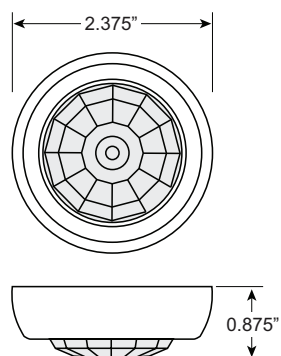
LOCATION/
TYPE

Specifications

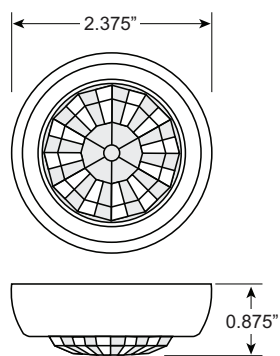
- Operating temperature: -40–131°F (-40–55°C)
- Storage temperature: -40–176°F (-40–80°C)
- Operating Humidity: 20–90%
- Five-year warranty
- UL and cUL listed

Lens Dimensions

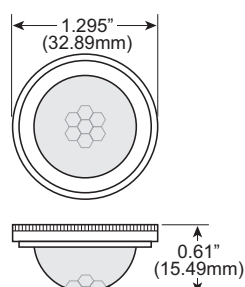
FS-L2W



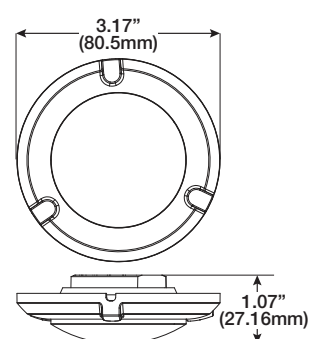
FS-L3W



FS-L6

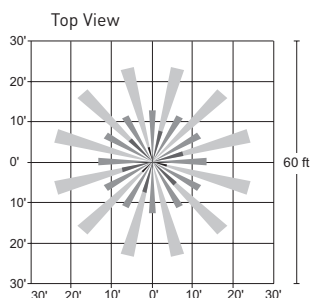


FS-L7W and FS-L7-G

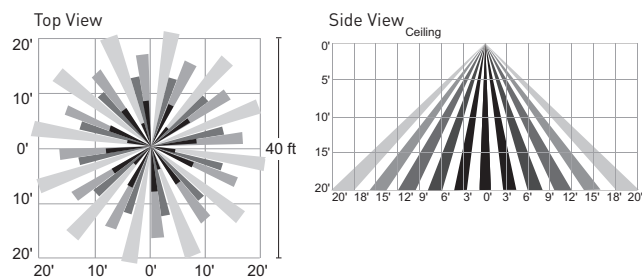


Coverage Patterns

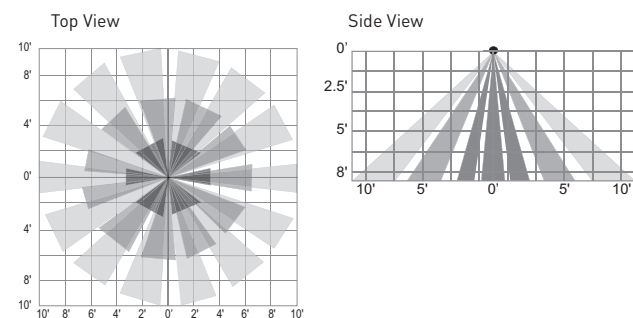
FS-L2W



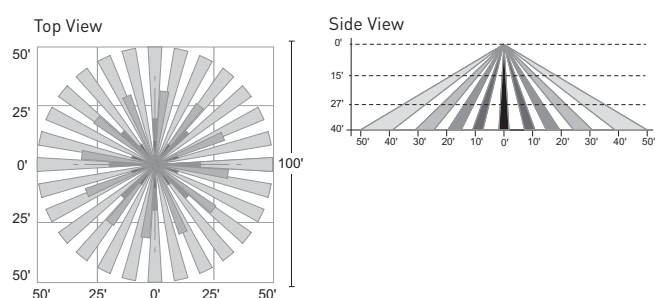
FS-L3W



FS-L6



FS-L7W and FS-L7-G



Ordering Information

Catalog #	Color	Description
<input type="checkbox"/> FS-L2W	White	360° lens, maximum coverage 48' diameter from 8' height, for indoor and outdoor environments
<input type="checkbox"/> FS-L3W	White	360° lens, maximum coverage 40' diameter from 20' height, for indoor and outdoor environments
<input type="checkbox"/> FS-L6	White	360° lens, maximum coverage 20' diameter from 8' height, for dry indoor environments only
<input type="checkbox"/> FS-L7W	White	360° lens, maximum coverage 100' diameter from 40' height, for indoor and outdoor environments
<input type="checkbox"/> FS-L7-G	Gray	360° lens, maximum coverage 100' diameter from 40' height, for indoor and outdoor environments

WATTSTOPPER®

FIXTURE SENSORS & CONTROLS | HIGH BAY SENSORS

HIGH BAY OCCUPANCY SENSOR LENSES

| HBL SERIES

Lenses utilize
Fresnel technology

Lenses easily rotate 90° to
adjust coverage pattern

Swap lenses to achieve
different coverage patterns

Lenses snap on for easy
adjustment during installation



Description

The High Bay (HB3x0) Occupancy Sensor Modules (sold separately) require one of five available lenses to operate: the HBL1, HBL1M, HBL2, HBL3, or HBL7. Each Fresnel lens is designed for a different application, allowing for use at different mounting heights and locations. Each HB sensor lens snap-mounts to any module, and can be interchanged by simply un-snapping and re-snapping the ideal lens for the particular application. They can also be repositioned 90° on the sensor.

HBL1 & HBL1M Lenses

The HBL1 lens offers linear patterns best suited for high bay aisleway applications. The Fresnel lens is designed to detect walking motion when mounted at or around 40'. In optimal conditions, the lens has a 60' linear detection range. Identical to the HBL1, the HBL1M comes with opaque adhesive tape applied to the interior of the lens, cutting off 1/2 of the coverage pattern. This customized coverage is ideal for the beginning of aisleways where cross traffic could be an issue.

Features

HBL1 & HBL1M:

- Ideal for high ceiling aisleway applications
- Both are multi-cell, multi-tier Fresnel lenses
- 60' x 20' HBL1 coverage when mounted at 40' height
- 30' x 20' HBL1M coverage when mounted at 40' height

HBL2, HBL3, & HBL7 Lenses

The HBL2, HBL3, and HBL7 lenses offer 360° coverage and are best suited for open area and aisleway coverage in high bay applications. They are multi-cell, multi-tier Fresnel lenses offering a high-density coverage pattern.

For low bay applications, the HBL2 pattern spreads over a 48' diameter area at a height of 8'.

For mid bay applications, the HBL3 pattern spreads over a 40' diameter area at a height of 20'.

For high bay applications, the HBL7 is designed for mounting at heights between 20' and 40', with a coverage area up to 100' in diameter when mounted at 40'.

HBLxW Lenses

The HBL2W, HBL3W, and HBL7W lenses are designed for use with the HB3x0W series sensors, which are used in wet locations. They have the same coverage patterns as the dry environment lenses.

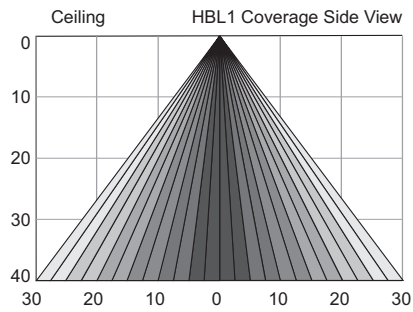
HBL2, HBL3, & HBL7:

- Ideal for high ceiling open area and aisleway coverage in high bay applications
- All are multi-cell, multi-tier Fresnel lenses
- 48' diameter coverage when mounted at a 8' height (HBL2)
- 40' diameter coverage when mounted at a 20' height (HBL3)
- 100' diameter coverage when mounted at a 40' height (HBL7)

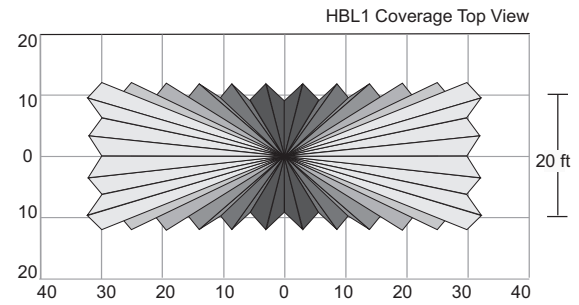
PROJECT

LOCATION/
TYPE

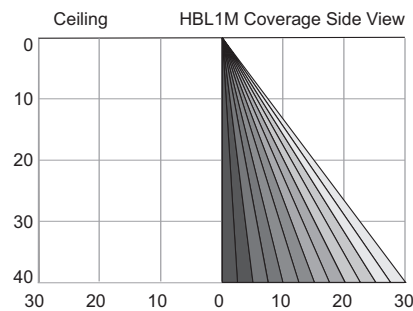
HBL1 Coverage Side View



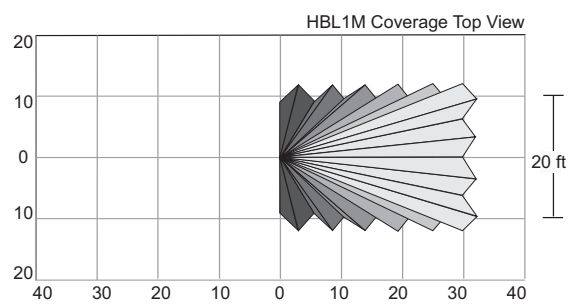
HBL1 Coverage Top View



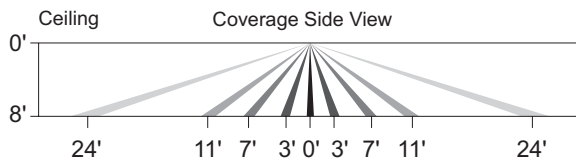
HBL1M Coverage Side View



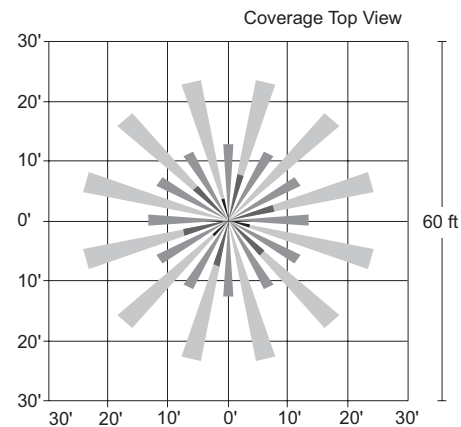
HBL1M Coverage Top View



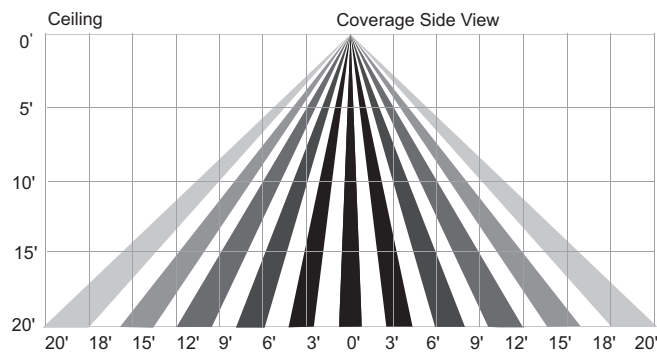
HBL2 Coverage Side View



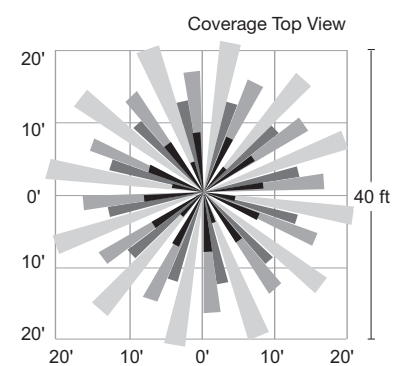
HBL2 Coverage Top View



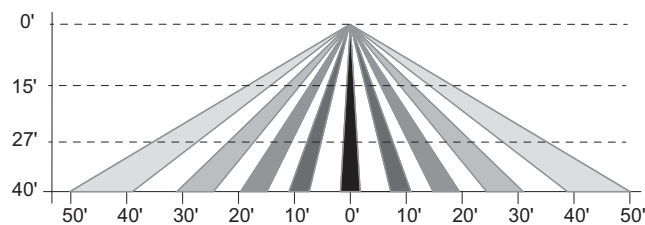
HBL3 Coverage Side View



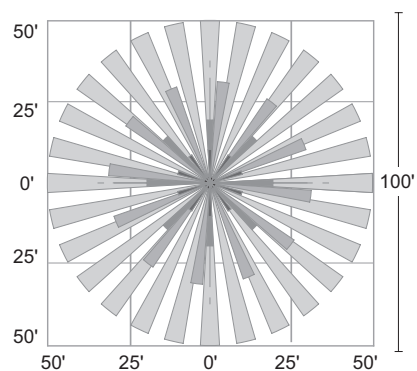
HBL3 Coverage Top View



HBL7 Coverage Side View



HBL7 Coverage Top View



Ordering Information

Catalog #	Color	Coverage
<input type="checkbox"/> HBL1	White	Coverage @ 40' height: 60' x 20'
<input type="checkbox"/> HBL1M	White	Coverage @ 40' height: 30' x 20'
<input type="checkbox"/> HBL2	White	Coverage @ 8' height: 48' in diameter
<input type="checkbox"/> HBL2W	White	Coverage @ 8' height: 48' in diameter – for wet location sensor models
<input type="checkbox"/> HBL3	White	Coverage @ 20' height: 40' in diameter
<input type="checkbox"/> HBL3W	White	Coverage @ 20' height: 40' in diameter – for wet location sensor models
<input type="checkbox"/> HBL7	White	Coverage @ 40' height: 100' in diameter
<input type="checkbox"/> HBL7W	White	Coverage @ 40' height: 100' in diameter – for wet location sensor models

Please note: 1. For a complete working system, separately order the correct module for your application [see module cutsheets].
 2. When preparing P.O., order parts as separate line items [e.g., HB3xx, HBL1, HBEM3]
 3. Parts ship separately.



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