



## EFS07-W Series DC Basic High Bay Sensor Plug&Play Type



**EFS07-AUX-W**  
(Lens Sold Separately)



**EFS07-BH4-W**  
(Lens Sold Separately)



**EFS07-Z10-W**  
(Lens Sold Separately)

PHOTOCELL VALUE			
LOW	HIGH	CAL	OFF
5FC	20FC	Configurable LUX	Disable

### Description

The EFS07-W series high bay sensors are specifically designed for outdoor use. These sensors feature a photocell, passive infrared (PIR) motion detection, integrated long-range antennas, and a UV-rated nylon housing with a black finish. They are designed for plug-and-play installation in outdoor luminaires equipped with compatible receptacles. Utilizing the advanced AlgoH2 algorithm, the EFS07-W sensors provide accurate motion detection for high bay applications up to 40 feet while minimizing false triggers.

### Features

- Photocell and PIR sensing technology with AlgoH2 algorithm for accurate detection up to 40 ft.
- Photocell for Hold ON/OFF operation.
- Compatible with WHBL1 series lens options (sold separately).
- IP66-rated for outdoor and wet locations.
- UV-resistant black nylon housing.

### Requirements

- A lens, such as the WHBL1-2-B, is required and sold separately.
- Compatible with Dim-to-Off LED drivers featuring a 12V AUX output.
- Requires a mating receptacle, such as WSC01 or BH4W (sold separately).

### Specifications

<b>Input Voltage</b>	DC 12V
<b>Input Current</b>	15mA
<b>Input Power</b>	0.2W
<b>Output Current</b>	10mA Max
<b>Output Power</b>	0.1W
<b>Dimming</b>	Class 2, 0-10V DC 10mA Max
<b>Sinking Current</b>	10mA Max
<b>Housing Material</b>	UL 94-5VA
<b>Detection Range</b>	40-80ft
<b>Mounting Height</b>	20-40ft
<b>IR Remote Distance</b>	Max 26' Indoor/Outdoor Use
<b>Operating Temperature</b>	-30°C to 70°C, -22°F to 158°F
<b>Storage Temperature</b>	-30°C to 85°C, -22°F to 185°F
<b>IP Rating</b>	IP66
<b>Color</b>	Black
<b>Warranty</b>	5-year warranty
<b>Compliance</b>	UL8750, RoHs
<b>Safety</b>	cULus Listed LED Controller E504054

### Ordering Information (not included in the product package)



WHBL1



BH4W



WSC01



WSC03

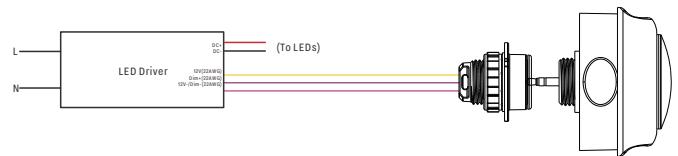
## Ordering Information

Model	Description
<b>EFS07-AUX-W.B1</b>	Outdoor photo/PIR Motion sensor of 3.5mm audio jack base
<b>EFS07-BH4-W.B1</b>	Outdoor photo/PIR Motion sensor of BH4 base
<b>EFS07-Z10-W.B1</b>	Outdoor photo/PIR Motion sensor of Z10 base by others

## Ordering Information -Accessories table

Model	Type	Description
<b>WHBL1-2-B</b>	Lens	High Bay Lens for wet locations, IP66
<b>BH4W</b>	Base	Wet Location BH4 Receptacle
<b>WSC01</b>	Base	Wet Location AUX Receptacle
<b>WSC03</b>	Accessory/Adapter	Wet Location AUX Socket Extension Adapter

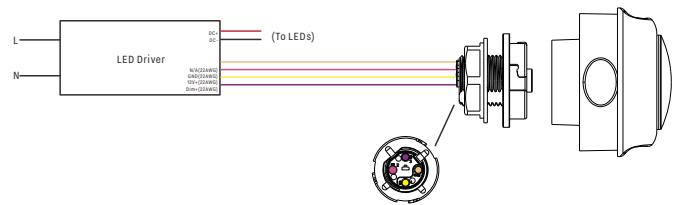
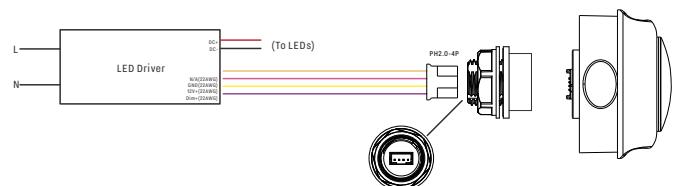
## Wiring



### Socket Mounting Dimensions

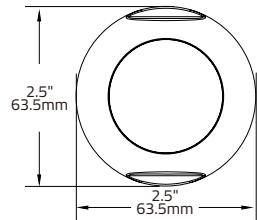
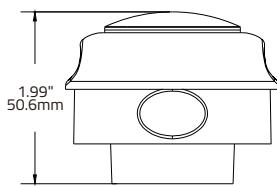
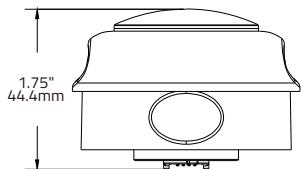
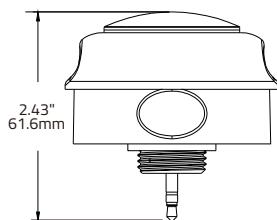
1/2 inch US standard knockout

Size	T.P.I - inch	Major Dia. - inch
R1/2	14	0.825



## Dimensions

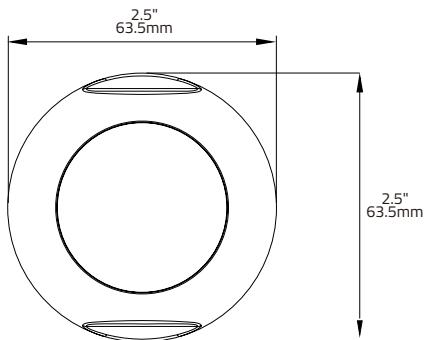
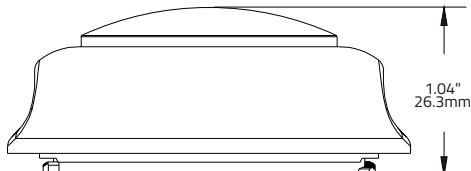
Unit:inch/mm



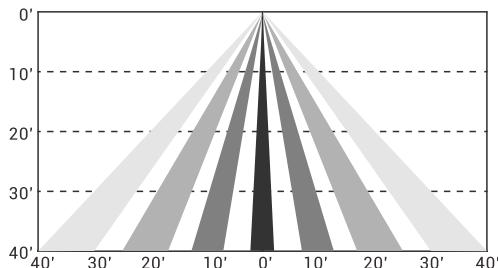
## Dimensions - Accessories

Unit:inch/mm

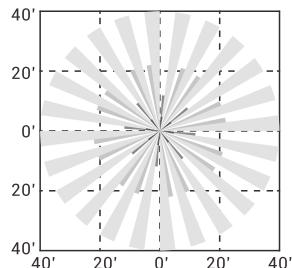
**WHBL1 Note:** SOLD Separately



**Coverage Side View**

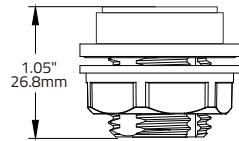


**Coverage Top View**

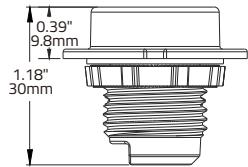


Height 40ft

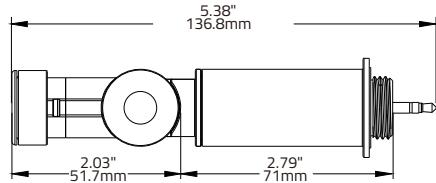
**BH4W**



**WSC01-AUX**



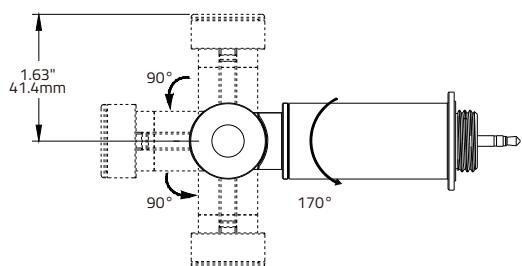
**WSC03-AUX**



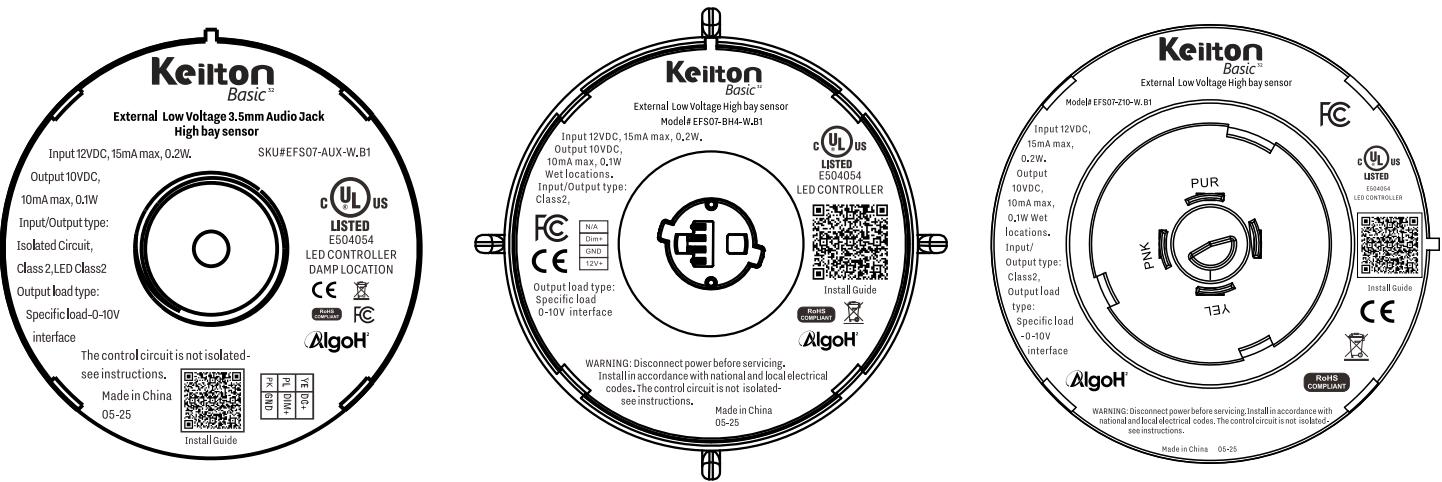
**Socket Mounting Dimensions**

1/2 inch US standard knockout

Size	T.P.I - inch	Major Dia. - inch
R1/2	14	0.825



## Product Label



## Remote Instructions

### Memory Mode (Commissioning)

To begin commissioning, follow these steps:

1. Select a memory profile: A, B, C, D, or E.
2. The remote's indicator lights will flash, indicating the currently saved settings.
3. Settings can be configured by pressing the appropriate buttons in the highlighted gray area of the remote (TRIM-LEVEL, SENSITIVITY, HOLD TIME, STANDBY DIM, STANDBY TIME, and PHOTOCELL). Review the selected settings and make changes as needed.
4. Point the remote at the desired luminaire and press "SEND."
5. The luminaire will flash twice to confirm the settings are saved. Changing a parameter in a memory profile will automatically override previous settings.
6. If configuring multiple luminaires, repeat steps 4 and 5 after selecting the configured memory mode.

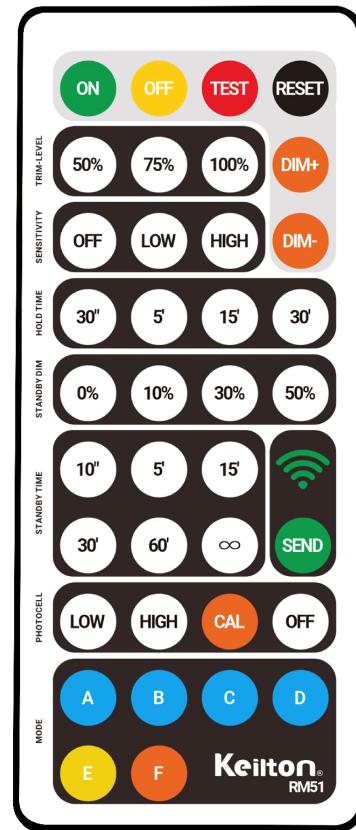
\* **E Mode** allows for visual adjustment to choose the desired dimming level.

### Daylight Harvesting (F Mode)

Continuous Adjustment Mode adjusts dimming levels based on daylight.

1. Point the remote at the desired luminaire and press "ON," then press DIM+ or DIM- to adjust the dimming level.
2. Press "F." The indicator lights on the remote will show the current saved settings. **Note:** Only TRIM-LEVEL, SENSITIVITY, and HOLD TIME can be selected for Daylight Harvesting settings
3. Review the selected settings and make changes as necessary. Press "SEND."
4. If the configuration is successful, the luminaire will flash twice to confirm the setting is saved. If configuring multiple luminaires, select the configured Daylight Harvesting settings, then follow step 1, step 2 and step 3.

<b>ON</b>	Turns <b>ON</b> luminaires.
<b>OFF</b>	Turns <b>OFF</b> luminaires.
<b>TEST</b>	The fixture enters the test mode and exit automatically after 5 minutes, the test mode parameters are configured as follows: <b>Trim-level:</b> 100%, <b>Sensitivity:</b> HIGH, <b>Hold time:</b> 2s, <b>Standby dim:</b> 50%, <b>Standby time:</b> 2s.
<b>RESET</b>	Trim= <b>100%</b> , Sensitivity = <b>High</b> , T1 = <b>5 min</b> , Standby Dim = <b>30%</b> , T2 = <b>60 min</b> , Photocell = <b>OFF</b> .
<b>DIM+/-</b>	Press Dim+ or Dim- to adjust brightness in 0.5V increments. Hold the button for continuous dimming
<b>TRIM-LEVEL</b>	Set Maximum brightness.
<b>SENSITIVITY</b>	Set the motion sensitivity of the sensor <b>LOW:50%</b> / <b>HIGH:100%</b> , <b>OFF:</b> disable the motion detection function.
<b>HOLDTIME</b>	The duration that elapses without occupancy detection before transitioning to standby dim.
<b>STANDBY DIM</b>	Select any standby dim level.
<b>STANDBY TIME</b>	Standby time, when the time is set to "∞", the daylight detection function is activated.
<b>PHOTOCELL</b>	visible light threshold, the fixture is allowed to be turned on when it falls below the threshold <b>LOW:5fc</b> / <b>HIGH:20fc</b> , <b>CAL:</b> Collect the current visible light illuminance as the threshold, <b>OFF:</b> disable PHOTOCELL function.
<b>MODE</b>	Default configuration parameters for mode <b>A</b> to <b>F</b> .
<b>SEND</b>	Send settings to sensor.
<b>DEFAULT MODE A</b>	Trim= <b>100%</b> , Sensitivity = <b>Low</b> , T1 = <b>30 min</b> , Standby Dim = <b>50%</b> , T2 = <b>∞</b> , Photocell = <b>CAL</b> .
<b>DEFAULT MODE B</b>	Trim= <b>100%</b> , Sensitivity = <b>Low</b> , T1 = <b>30 min</b> , Standby Dim = <b>50%</b> , T2 = <b>15 min</b> , Photocell = <b>CAL</b> .
<b>DEFAULT MODE C</b>	Trim= <b>100%</b> , Sensitivity = <b>Low</b> , T1 = <b>30 min</b> , Standby Dim = <b>50%</b> , T2 = <b>15 min</b> , Photocell = <b>OFF</b> .
<b>DEFAULT MODE D</b>	Trim= <b>50%</b> , Sensitivity = <b>Low</b> , T1 = <b>30 s</b> , Standby Dim = <b>50%</b> , T2 = <b>30 min</b> , Photocell = <b>CAL</b> .
<b>DEFAULT MODE E</b>	Manual Dimmer Mode, Trim= <b>100%</b> .
<b>DEFAULT MODE F</b>	Daylight Harvesting, Trim= <b>50%</b> , Sensitivity = <b>Low</b> , T1 = <b>15 min</b> .



## Contact Us

7001 Columbia Gateway Drive, Suite 210, Columbia, MD 21046, USA

T: +1 443-320-2233 (M-F 9am-5pm ET)

E: support@autani.com