Keilton Basic 32

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		
SET ON low	**SET ON high**	**SET OFF**
50lux	150lux	250μW/cm²

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.
- Long-range Bluetooth antenna with up to 328 ft transmission range.

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

Input Voltage	DC 12V
Input Current	8mA
Input Power	0.1W
Output Current	10mA Max
Output Power	0.1W
Dimming	Class 2, 0-10V DC 10mA Max
Sinking Current	10mA Max
Housing Material	UL 94-5VA
Detection Range	40-80ft
Mounting Height	20-40ft
IR Remote Distance	Max 26' Indoor/Outdoor Use
Operating Temperature	-30°C to 70°C, -22°F to 158°F
Storage Temperature	-30°C to 85°C, -22°F to 185°F
IP Rating	IP66
Color	Black
Warranty	5-year warranty
Compliance	UL8750, RoHs
Safety	cULus Listed LED Controller E504054

Ordering Information (not included in the product package)

WHBL1

BH4W

WSC01

WSC03

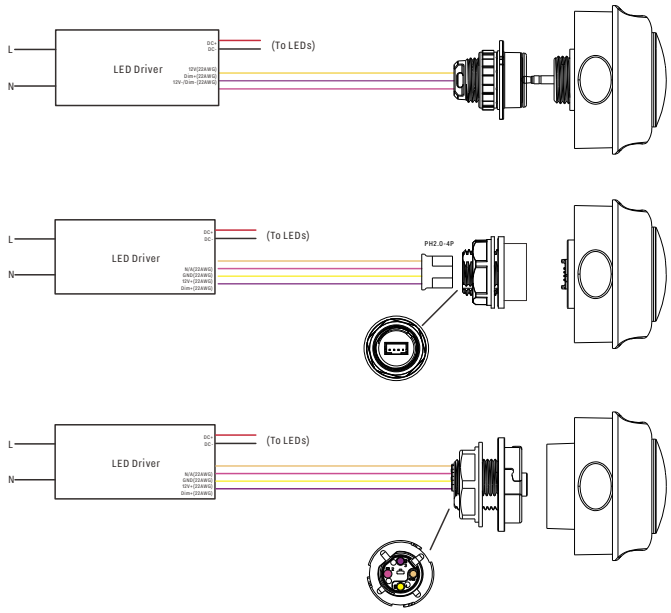
Ordering Information

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

Ordering Information -Accessories table

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

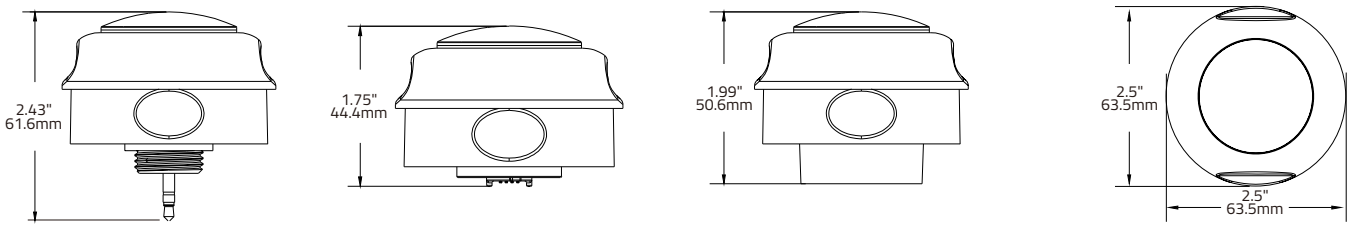
Wiring



Socket Mounting Dimensions		½ inch US standard knockout
Size	T.P.I - inch	Major Dia. - inch
R1/2	14	0.825

Dimensions

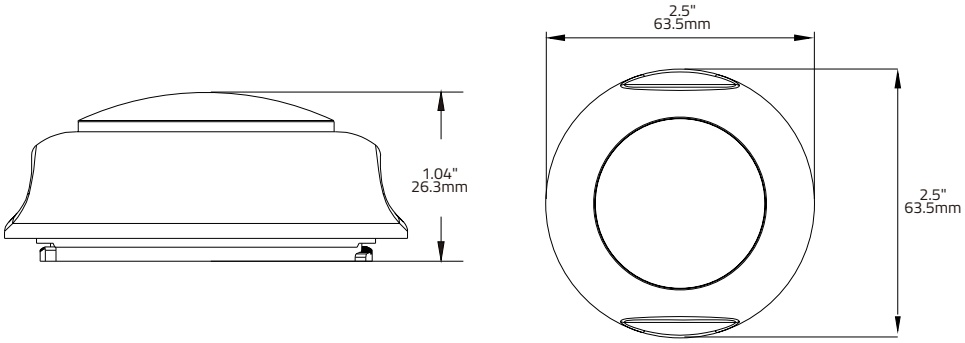
Unit:inch/mm



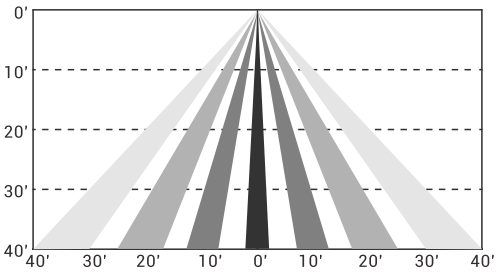
Dimensions - Accessories

Unit:inch/mm

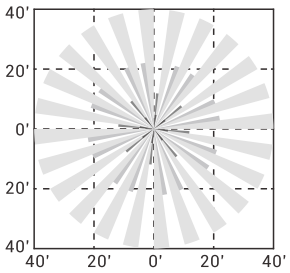
WHBL1 Note: SOLD Separately



Coverage Side View

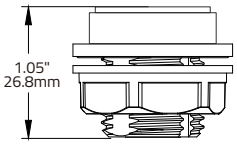


Coverage Top View

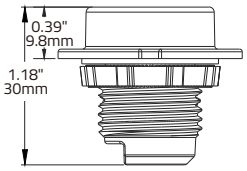


Height 40ft

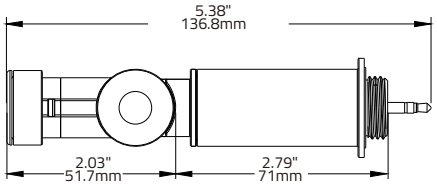
BH4W

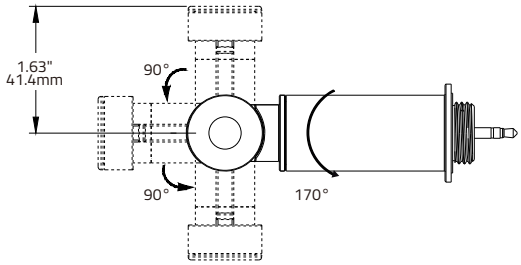


WSC01-AUX



WSC03-AUX





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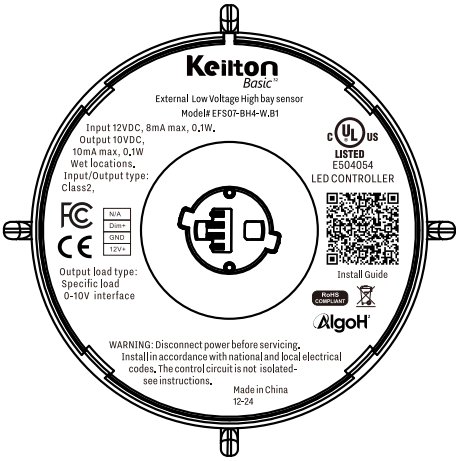
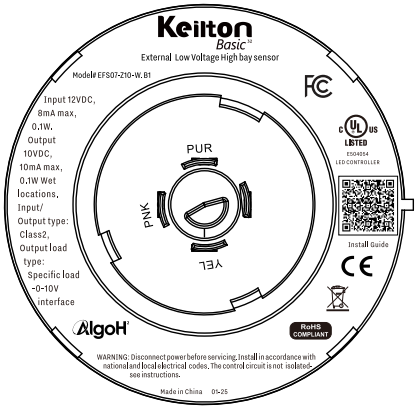
R1/2	14	0.825

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, showing the current 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.

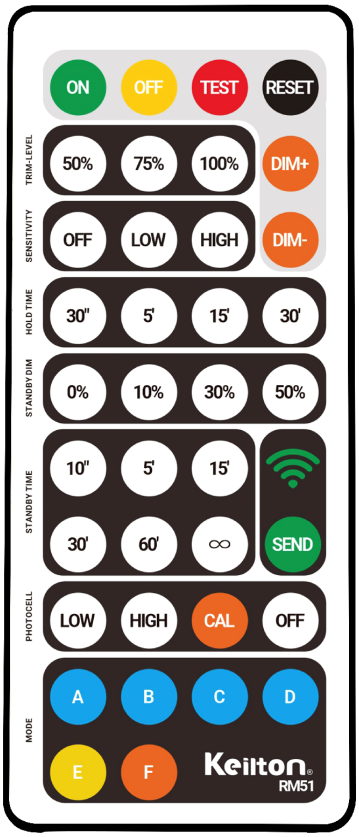
Daylight Harvesting (F Mode)
Continuous Adjustment Mode adjusts dimming levels based on daylight.

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 steps 4 and 5.

Reset Mode

Default Settings: Motion → 100%, No Motion ≥ 5 min → DIM to 30%, No Motion ≥ 60 min → Off.

ON	Turns ON luminaires.
OFF	Turns OFF luminaires.
TEST	Test mode will last **5 minutes**, then return to the previous setting. In test mode, the hold time is **2 seconds**, SDL is **50%**, and the standby time is **2 seconds**.
RESET	Trim-High = **100%**, Sensitivity = **High**, T1 = 5 min, Standby Dim = **30%**, T2 = **60 min**, Photocell = **OFF**.
DIM+/-	Remote will manually dim the luminaire up or down in increments of **0.5 volts**. **Smooth dimming** should occur when holding the dimming button.
TRIM-LEVEL	Set maximum threshold value at **50%**, **75%**, or **100%**.
SENSITIVITY	OFF (**PIR OFF, Enter PC ON/OFF function**) / LOW (**50%**) / HIGH (**100%**).
HOLDTIME	**Time of no occupancy after which the fixture goes to standby: 30s / 5 min / 15 min / 30 min.**
FMODE DAYLIGHT HARVESTING	**(Enable/Disable) Measures and sets a feature to allow the fixture to maintain a light level when turned ON.**
STANDBY DIM	Select any standby dim level: **0%** / **10%** / **30%** / **50%**.
STANDBY TIME	**10s** / **5 min** / **15 min** / **30 min** / **1h** / ∞. "∞" means the standby time is **infinite**, and the fixture is effectively controlled by the daylight sensor.
PHOTOCELL	**LOW (1fc) / HIGH (50fc) / CAL (Collects the current Lux Level) ON.**
MODE	Set settings to a program profile (**A to F**).
SEND	Send settings to the sensor.
DEFAULT MODE A	Trim-High = **100%**, Sensitivity = **Low**, T1 = **30 min**, Standby Dim = **50%**, T2 = ∞, Photocell = **CAL**.
DEFAULT MODE B	Trim-High = **100%**, Sensitivity = **Low**, T1 = **30 min**, Standby Dim = **50%**, T2 = **15 min**, Photocell = **CAL**.
DEFAULT MODE C	Trim-High = **100%**, Sensitivity = **Low**, T1 = **30 min**, Standby Dim = **50%**, T2 = **15 min**, Photocell = **OFF**.
DEFAULT MODE D	Trim-Low = **50%**, Sensitivity = **Low**, T1 = **30 min**, Standby Dim = **50%**, T2 = **30 min**, Photocell = **CAL**.
DEFAULT MODE E	Manual Mode, Trim-High = **100%**.
DEFAULT MODE F	Daylight Harvesting, Trim-Low = **50%**, Sensitivity = **Low**, T1 = **15 min**.



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