



EFS01RE Series

Basic External High Bay Sensor



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

Description

The AC High Bay PIR Sensor and Controller is a non-Bluetooth basic sensor. EFS01RE is equipped with AlgoHTM algorithm to enhance detection without false trigger.

Features

- This sensor was designed for automatic lighting control in high or low bay application.
- Different lens options provided.
- Includes a hold-off daylight level feature to prevent lighting from turning on when there is sufficient ambient light.
- Customize dimming level, delay time and control mode easily via a remote controller.

Specifications

Input Voltage	AC120-277V
Frequency	60Hz
Input Current	10A Max @ 120V, 4.3A Max @ 277V
Input Power	1200W Max
Output Voltage	AC120-277V
Output Current	10A Max @ 120V, 4.3A Max @ 277V
Output Power	1200W Max
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 65°C, -22°F to 149°F
Storage Temperature	-30°C to 85°C, -22°F to 185°F
IP Rating	IP40
Color	White
Warranty	5 years warranty
Compliance	UL8750, RoHs
Safety	cULus Listed LED Controller E504054

Ordering Information (not included in the product package)



HBL3



HBL1



EJ30

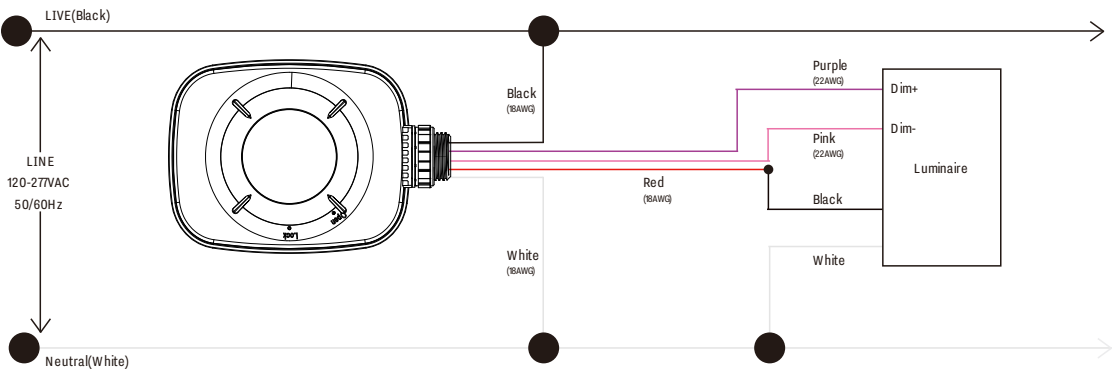


EJ50

Ordering Information

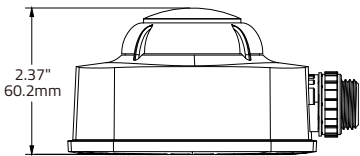
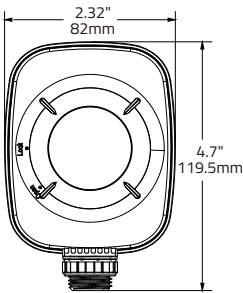
Model	Description
EFS01RE.B1	AC External Photo/PIR Motion Sensor
HBL3-2-W	HBL3 High Bay Lens
HBL1-2-W	HBL1 High Bay Lens
EJ30	Extension Adapter
EJ50	Extension Adapter

Wiring



Dimensions

Unit:inch/mm

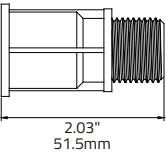


Socket Mounting Dimensions		1/2 inch US standard knockout
Size	T.P.I - inch	Major Dia. - inch
R1/2	14	0.825

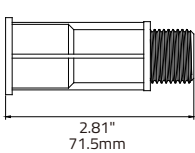
Dimensions - Accessories

Unit:inch/mm

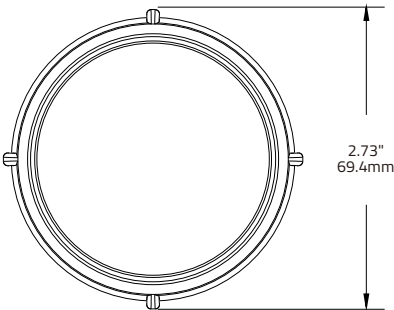
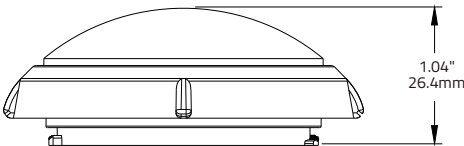
EJ30



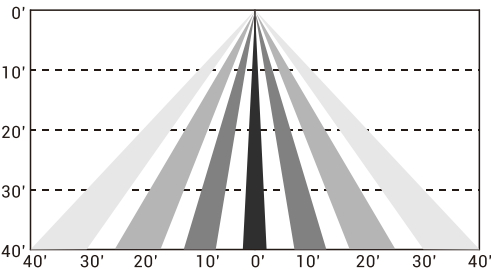
EJ50



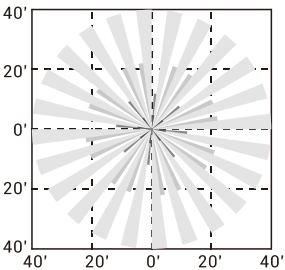
HBL3



Coverage Side View

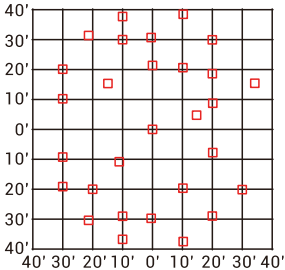


Coverage Top View



Height40ft

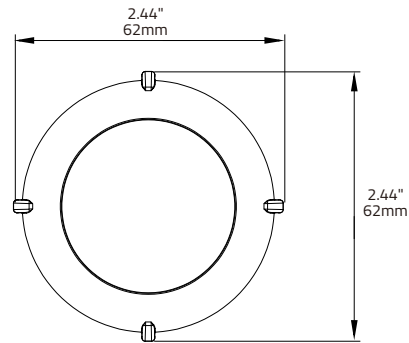
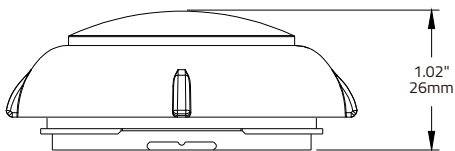
Detecting Spots For Ref



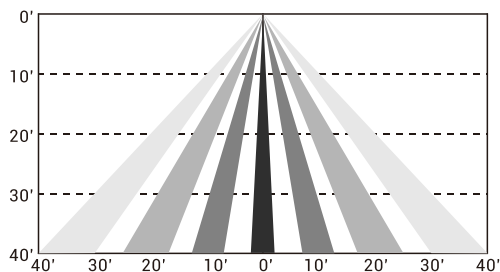
HBL3hasmoredetectedpoints thanHBL1

Unit:inch/mm

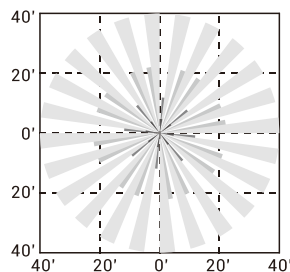
HBL1



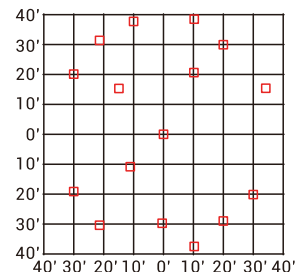
Coverage Side View



Coverage Top View



Detecting Spots For Ref



Product Label

Keilton

Basic³²

External Photo & PIR Bi-Level Fixture Sensor

SKU:EF501RE.B1

Input 120-277V AC, 60Hz, 10A max, 1200W max.
 Output 120-277V AC, 60Hz, 10A max, 1200W max.

For LED driver only. For dry and damp locations.

0-10V DIMMING: CLASS 2













Install Guide

WARNING: Disconnect power before servicing. Install in accordance with national and local electrical codes. For connections use wire rated for at least 90°C . 18AWG solid wire at least. The control circuit is isolated-se instructions.

Input type: Branch Circuit (mains)

Output type: Branch Circuit (mains)

Output load type: Switch mode LED driver

PINK	PURPLE	RED	WHITE	BLACK
DIM-	DIM+	LOAD	NEUTRAL	LINE

Power Input: LINE (BLACK) / NEUTRAL (WHITE)

Sensor: BLACK / WHITE

LED CHIMING DRIVER: PURPLE (DIM+), PINK (DIM-), LOAD (RED) OUTPUT, BLACK, WHITE

Made in China
02-25

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.

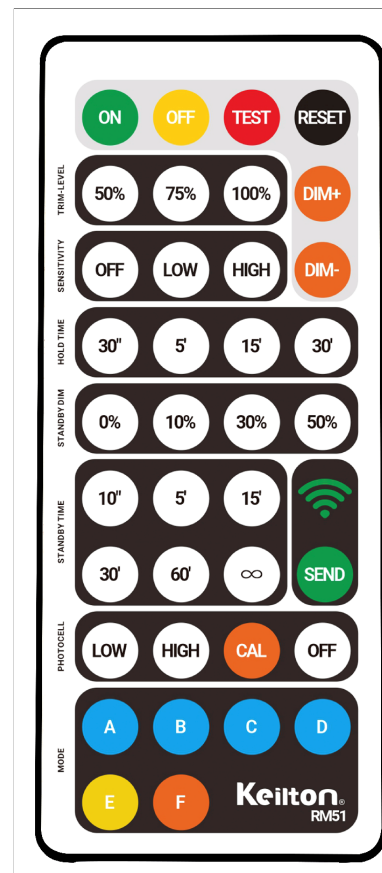
* **E Mode** allows for visual adjustment to choose the desired dimming level.

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.

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



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