

# Basic External High Bay Sensor

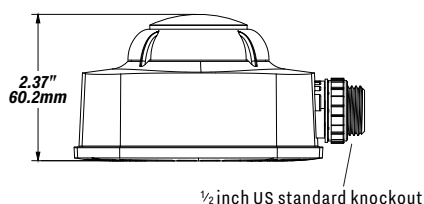
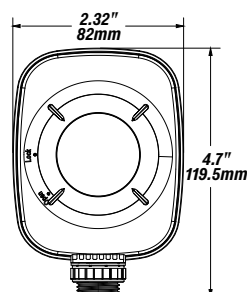


## FEATURES

- 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.

## DIMENSION

Unit: inch/mm

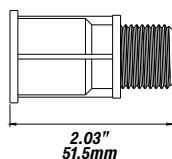


### AMERICAN INCH PRODUCTS

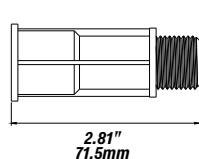
Size	T.P.I	Major Dia.
	inch	inch
R1/2	14	0.825

### Extension Adapter (Optional)

#### EJ30



#### EJ50



## 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: IP66

Color: White

Warranty: 5 years warranty

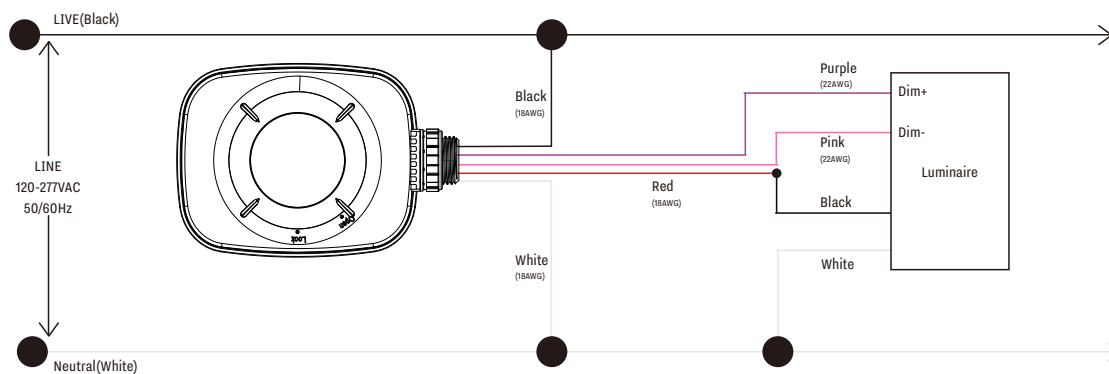
Comply to UL8750, RoHS

Safety: cULus Listed LED Controller

E504054

MODEL	DESCRIPTION
EFS01RE.A2	AC External Photo/PIR Motion Sensor
HBL1-2-W	HBL1 High Bay Lens
HBL2-2-W	HBL2 High Bay Lens
MBL1-2-W	MBL1 Middle Bay Lens
EJ30	Extension Adapter
EJ50	Extension Adapter

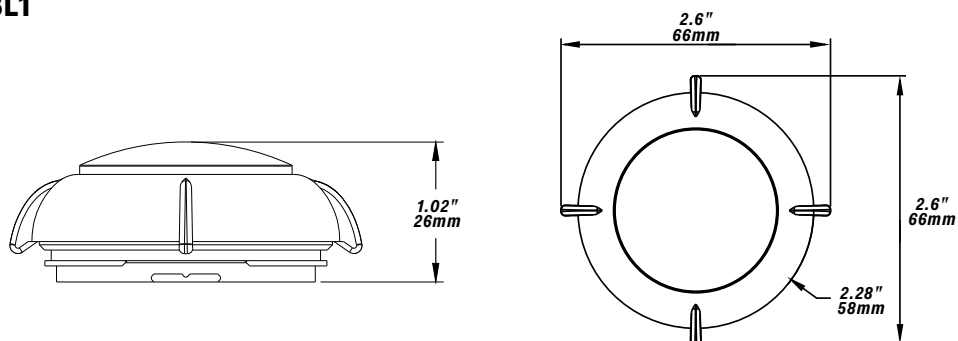
## WIRING



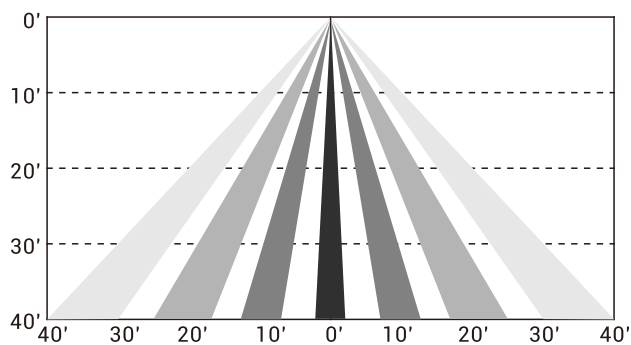
## DIMENSION

Unit: inch/mm

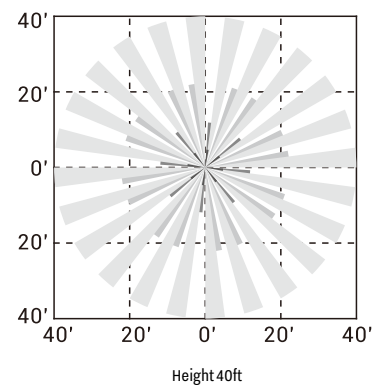
### HBL1



Coverage Side View



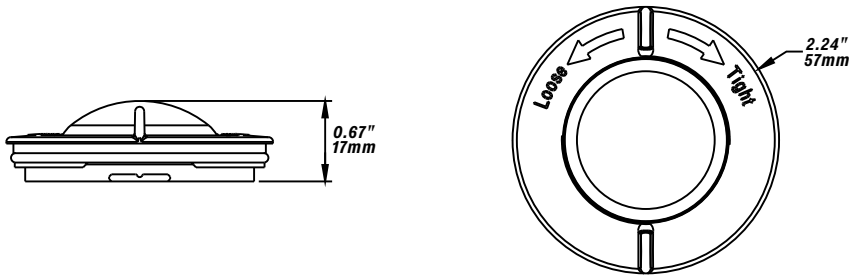
Coverage Top View



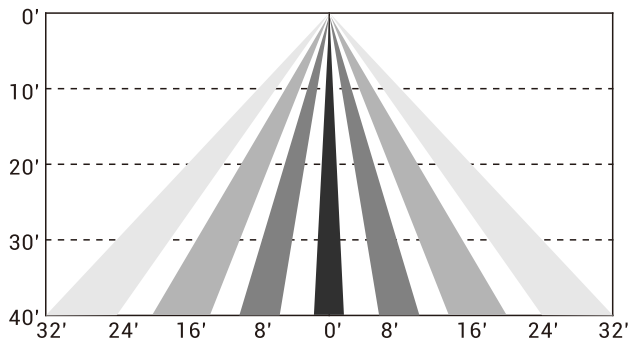
## DIMENSIONS

Unit: inch/mm

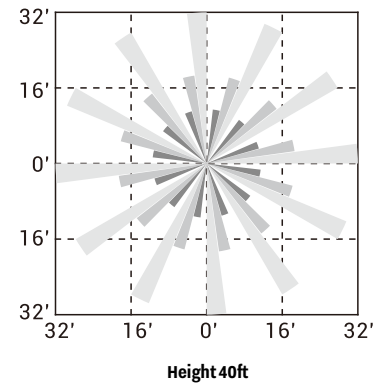
### HBL2



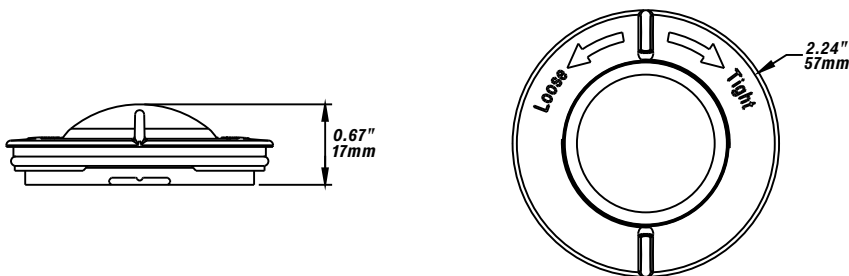
Coverage Side View



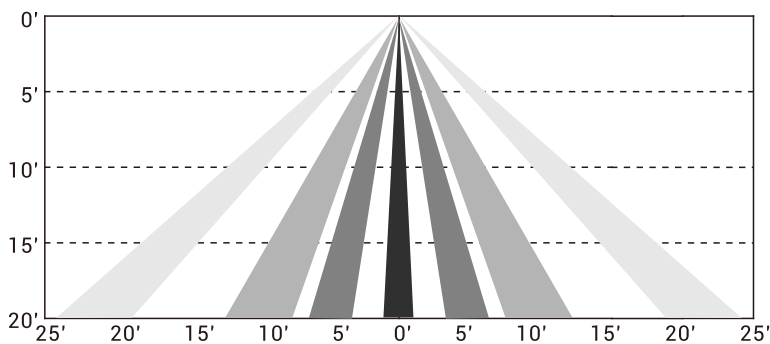
Coverage Top View



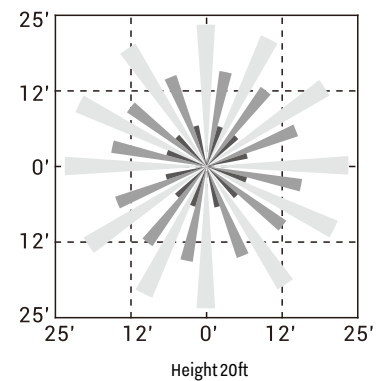
### MBL1



Coverage Side View



Coverage Top View



MARKING

Keilton®  
Basic

External Photo & PIR Bi-Level Fixture Sensor  
SKU: EFS01RE.A2

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

UL

us

LISTED

E504054

LED CONTROLLER

LINE (BLACK)

POWER INPUT

NEUTRAL (WHITE)

BLACK

SENSOR

WHITE

PURPLE (10V+)

PINK (10V-)

LED DIMMING DRIVER

LOAD (RED)

OUTPUT

BLACK

WHITE

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-see instructions.

Input type: Branch Circuit (mains)  
Output type: Branch  
Circuit (mains)  
Output load type:  
Switch mode  
LED driver

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

Made in China  
06-22

## REMOTE INSTRUCTION

**Memory Mode (Commissioning) To begin commissioning, follow the steps below:**

1. Select either A, B, C, D.
2. Indicator lights on the remote will flash to indicate the current saved settings.
3. Settings can be configured by pressing appropriate buttons in the highlighted gray area of the remote. (TRIM-LEVEL, SENSITIVITY, HOLD TIME, STANDBY DIM, STANDBY TIME, and PHOTOCCELL). Review selected settings and make changes as necessary.
4. Point IR remote to desired luminaire for configuration and press "SEND".
5. If configuration is successful, luminaire will flash two times suggesting settings are saved. Any parameter change to the current saved settings on A to F will override previous settings and will be automatically saved on the remote. If configuring multiple luminaires, select the configured memory mode A to E then follow steps 4 and 5.

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

**Continuous Adjustment Mode or Daylight Harvesting (F Mode) enables dimmability in response to daylight availability.**

1. Point IR remote to desired luminaire.
2. Press "ON" then press DIM+ or DIM- to adjust dimming level.
3. Press "F", indicator lights on the remote will indicate current saved settings. Note: only TRIM-LEVEL, SENSITIVITY, and HOLD TIME can be selected for Daylight Harvesting settings.
4. Review selected settings and make changes as necessary. Press "SEND".
5. If configuration is successful, luminaire will flash twice to confirm setting 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 >= 5min --> DIM to 30%, No Motion >= 60min --> Off

ON	Turns ON Luminaires
OFF	Turns OFF Luminaires
TEST	Test mode will last 5 mins then return to previous setting Test mode will hold time 2 seconds SDL 50% and standby time 2 seconds
RESET	Trim-High=100%,sensitivity=High,T1=5min,Standby Dim=30%,T2=60min,Photocell=OFF
DIM+/-	Remote will manually dim luminaire up or down by increments of 0.5volts. Must be smooth dimming if holding dimming button.
TRIM-LEVEL	Set Maximum threshold value 50/75/100%
SENSITIVITY	OFF(PIR OFF Enter PC ON/OFF function)/LOW(50%)/HIGH (100%)
HOLD TIME	(time of no occupancy after which fixture goes to standby) 30s / 5min /15min / 30min
F MODE DAYLIGHT HARVESTING	(Enable/Disable) Measure and set feature to allow the fixture to maintain a light level. If turned ON.
STANDBY DIM	Select any standby dim level 0/10/30/50%
STANDBY TIME	Standby time - 10s / 5min/15min / 30min /1h/∞. "∞" means the stand-by time is infinite and the fixture is effectively controlled by the daylight sensor)
PHOTOCCELL	LOW (1fc) / HIGH (50fc)/CAL Collecting The current Lux Level OFF
MODE	Set settings to a Program profile A to F
SEND	Send settings to sensor
DEFAULT MODE A	Trim-High=100%,sensitivity=low,T1=30min,Standby Dim=50%,T2=∞,Photocell=CAL
DEFAULT MODE B	Trim-High=100%,sensitivity=low,T1=30min,Standby Dim=50%,T2=15min,Photocell=CAL
DEFAULT MODE C	Trim-High=100%,sensitivity=low,T1=30min,Standby Dim=50%,T2=15min,Photocell=OFF
DEFAULT MODE D	Trim-Low=50%,sensitivity=low,T1=30min,Standby Dim=50%,T2=30min,Photocell=CAL
DEFAULT MODE E	Manual Mode,Trim-High=100%
DEFAULT MODE F	Daylight Harvesting,Trim-Low=50%,sensitivity=low,T1=15min

