DATE: 11/28/2022 FIRMWARE: 1.2 ERP CODE: 10.01043
VERSION: 1.0 CATALOG#: C

Basic External High Bay Sensor

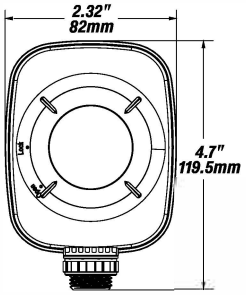
c UL us LISTED RoHS COMPLIANT FC

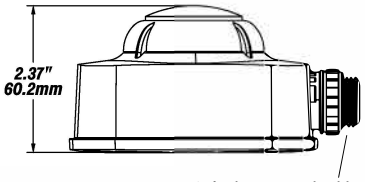
FEATURES

- 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



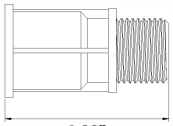


½ inch US standard knockout

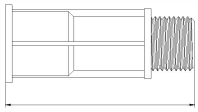
AMERICAN INCH PRODUCTS		
Size	T.P.I	Major Dia.
	inch	inch
R1/2	14	0.825

Extension Adapter (Optional)

EJ30



EJ50



MODEL	DESCRIPTION
EFS01RE	AC External Photo/microwave 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

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℃ to 65℃,

-22℉ to 149℉

Storage Temperature: -30℃ to 85℃,

-22℉ to 185℉

IP Rating: IP66

Color: White

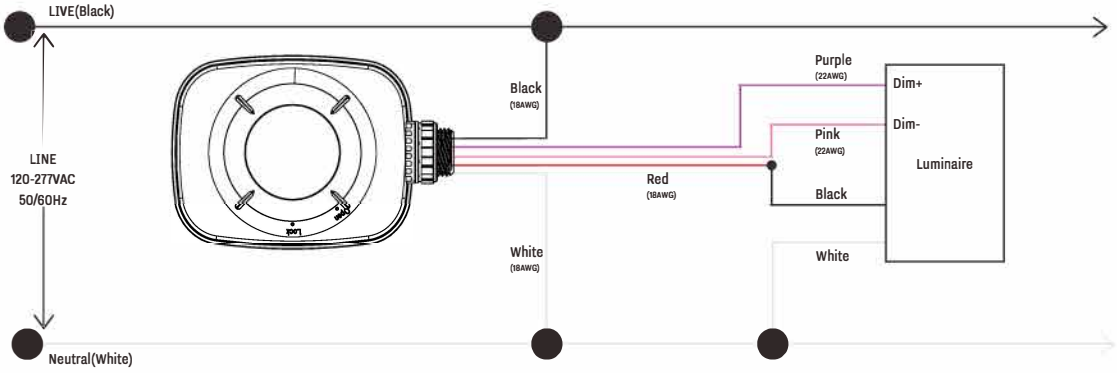
Warranty: 5 years warranty

Comply to UL8750, RoHS

Safety: cULus Listed LED Controller

E504054

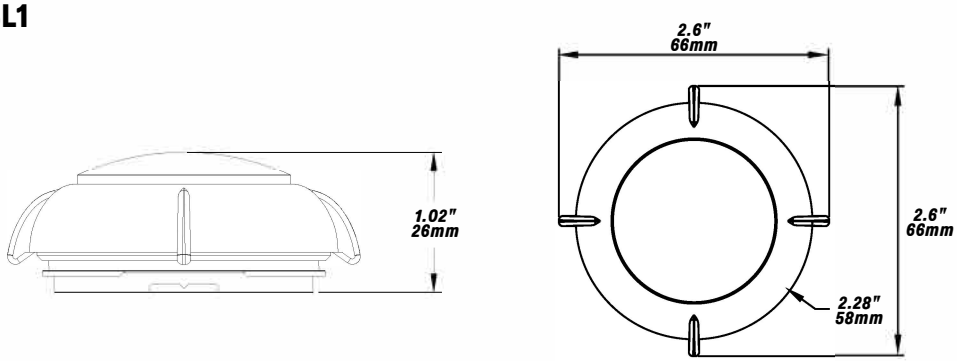
WIRING



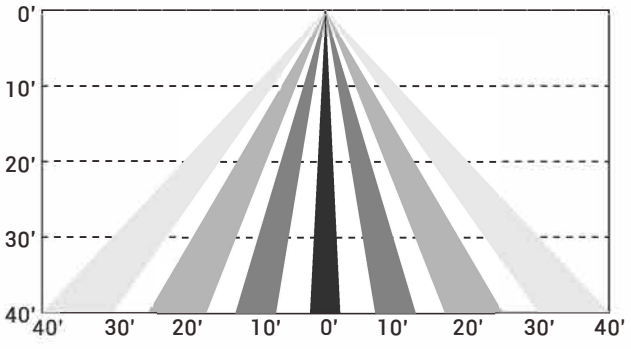
DIMENSION

Unit:inch/mm

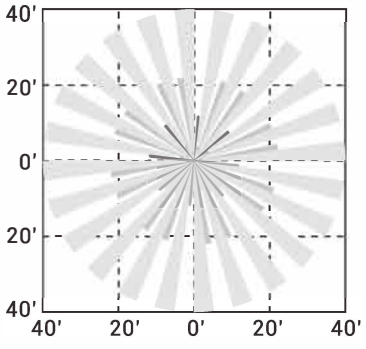
HBL1



Coverage Side View



Coverage Top View

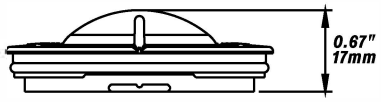


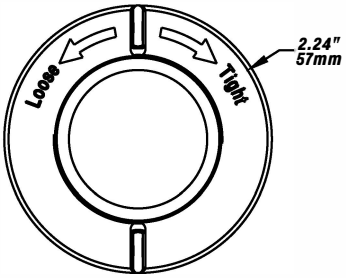
Height 40ft

DIMENSIONS

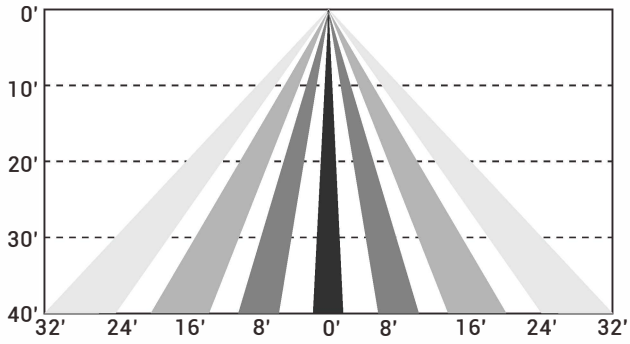
Unit:inch/mm

HBL2

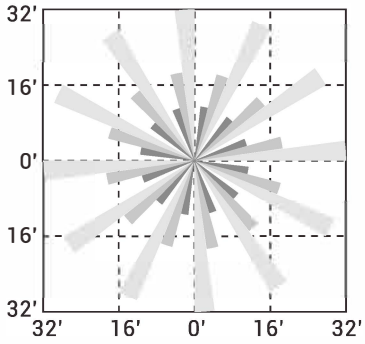




Coverage Side View

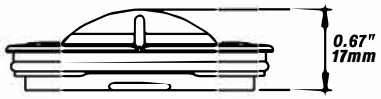


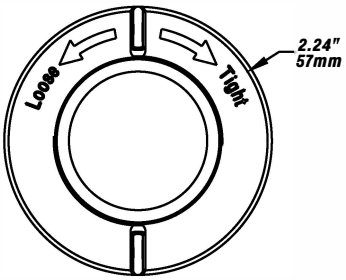
Coverage Top View



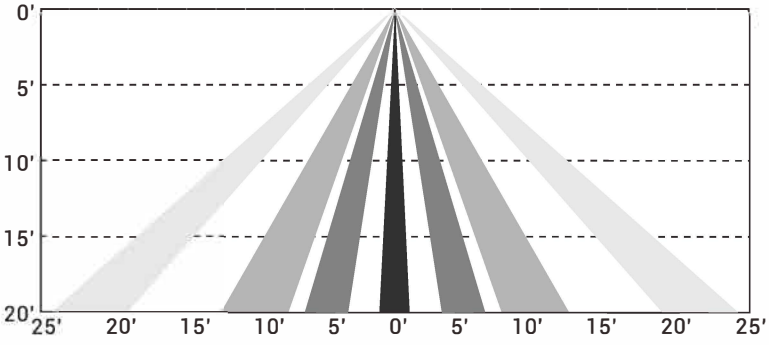
Height 40ft

MBL1

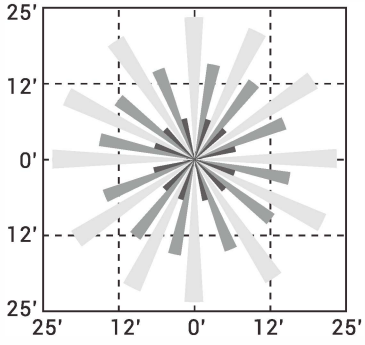




Coverage Side View

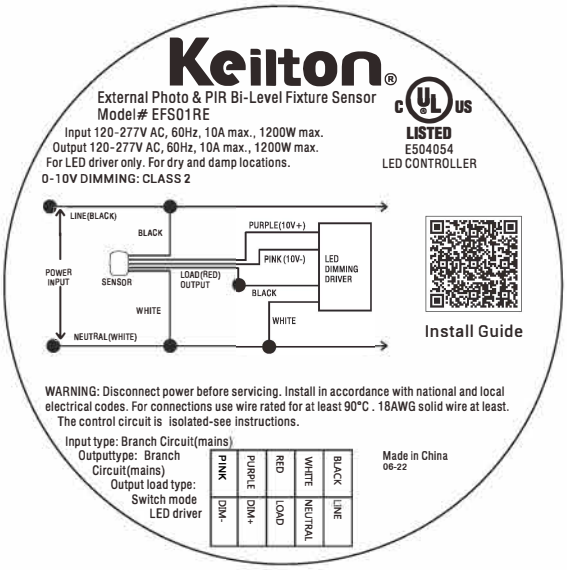


Coverage Top View



Height 20ft

MARKING


Keilton®
External Photo & PIR Bi-Level Fixture Sensor
Model# EFS01RE
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
c UL us
LISTED
E504054
LED CONTROLLER
LINE(BLACK)
BLACK
PURPLE(10V+)
PINK (10V-)
LED DIMMING DRIVER
POWER INPUT
SENSOR
LOAD(RED) OUTPUT
BLACK
WHITE
WHITE
NEUTRAL(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)
Outputtype: Branch Circuit(mains)
Output load type: Switch mode LED driver
PINK
PURPLE
RED
WHITE
BLACK
DIM-
DIM+
LOAD
NEUTRAL
LINE
Made in China
06-22

REMOTE INSTRUCTION

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

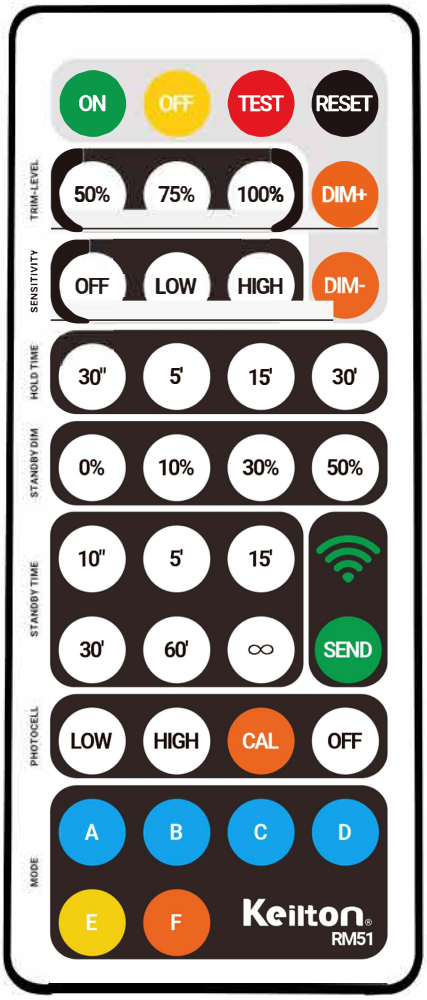
1. Select either A, B, C, D.
2. Indicator lights on the remote will flash to indicate the current saved settings.
3. Settings can be configured by pressing appropriate buttons in the highlighted gray area of the remote. (TRIM-LEVEL, SENSITIVITY, HOLD TIME, STANDBY DIM, STANDBY TIME, and PHOTOCELL). Review 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 configurating multiple luminaires, select the configured memory mode A to E then follow steps 4and 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 settingsaved.If configurating multiple luminaires, select the configured DAYLIGHT HARVESTING settingsthen 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	Testmodewilllast5minsthenreturn to previous settingTestmode willholdtime2 seconds SDL 50%and standbytime2 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/OFFfunction)/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)
PHOTOCELL	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 MODEB	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