

# Basic Integrated Low Bay Sensor

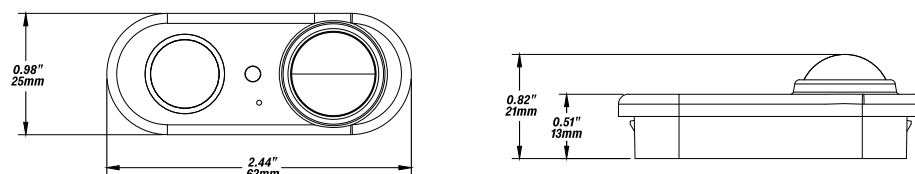


## FEATURES

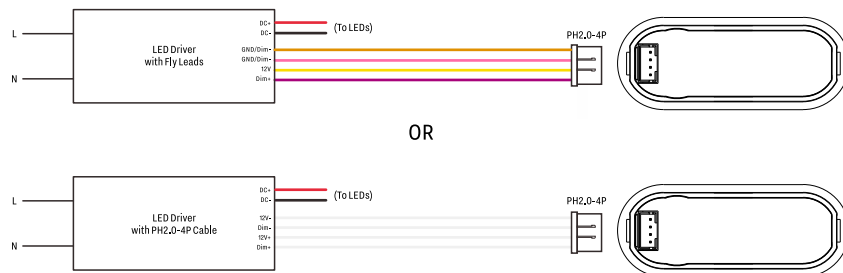
- IFS06R is a compact size PIR sensor combines occupancy sensing with photocell. When used with 0-10V dim-to-off LED drivers, it enables any lighting manufacturer to deliver sensor-equipped fixtures with minimal engineering effort.
- It operates on 12V DC which can be supplied by a LED driver, which will save OEM cost on manufacturer side. Different mode can be selected according to different applications through RM51IR remote controller. The integrated photocell can switch the lights on and off for dusk to dawn control, so that lighting remains on overnight even without motion detection.
- Under daylight harvesting mode, the auto-calibration function can control the amount of electric light by measuring the overall combined natural and electric light to achieve the desired light level support push button wire connection.
- Support super low profile luminaire.

## DIMENSION

Unit: inch/mm



## WIRING



## SPECIFICATIONS

Input Voltage: DC 12V

Input Current: 9mA Max

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,

Indoor Use Only

Detection Range: 40ft Max

Mounting Height: 18ft Max

IR Remote Distance: Max 20'

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: IP20

Color: White

Warranty: 5 years warranty

Comply to UL8750, RoHS

Safety: cULus Recognized Component

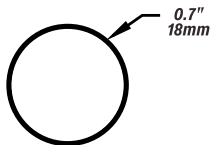
LED Controller E504054

MODEL	DESCRIPTION
IFS06R	Fixture Built-in Low Bay Sensor
LBL1	Low bay lens, Mount Height 18ft Max, coverage 40ft Max
LBL2	Low bay lens, Mount Height 15ft Max, coverage 32ft Max, For Minor Movment

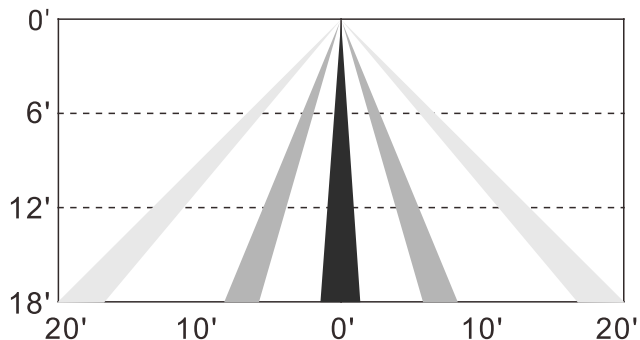
## DIMENSIONS

Unit: inch/mm

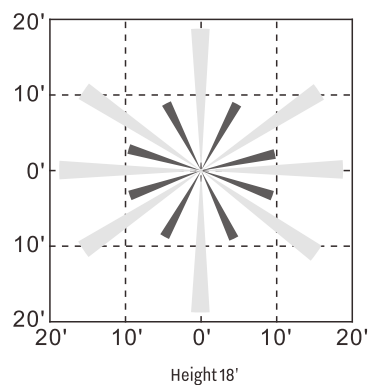
### LBL1



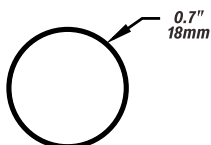
Coverage Side View



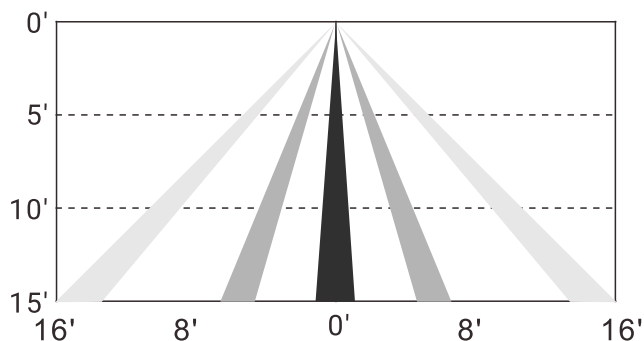
Coverage Top View



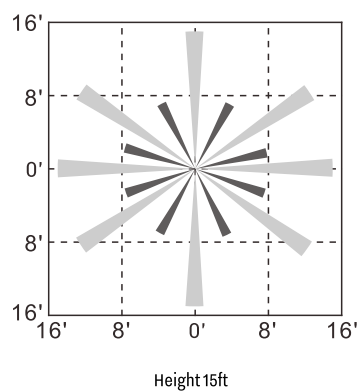
### LBL2



Coverage Side View



Coverage Top View



## MARKING

**Keilton® IFS06R**  
Integrated Low Voltage  
Daylight Harvesting Motion Sensor

Input: 12VDC 9mA 0.1W  
Output: 10VDC 10mA 0.1W  
Input Type Class 2  
Output Type Class 2  
Output Load Type Specific load- 0-10V interface  
Damp locations

Tc: 65.5°C

**CALUS**  
E504054  
LED Controller

Install guide

12V-  
Dim+  
12V+  
Dim+

RoHS COMPLIANT

## 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

