

# Basic External DC Sensor

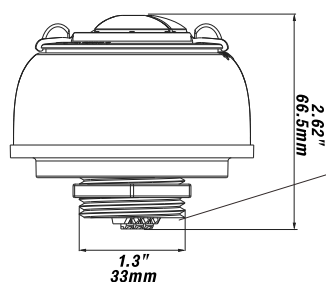


## FEATURES

- The EFS07 allows your fixture to be super compact and low profile, with 1.30" standard collar, it can fit into most of the applications.
- By connecting to a LED driver with 12V output, EFS07 does not need its own power supply which will save OEM cost and space inside the fixture.
- 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.

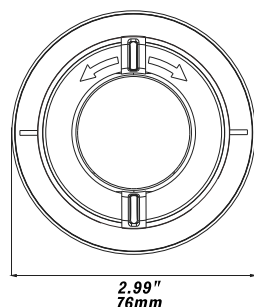
## DIMENSION

Unit: inch/mm



1 inch US standard knockout

AMERICAN INCH PRODUCTS		
Size	T.P.I	Major Dia.
	inch	inch
R1	11	1.3



Accessory: Louver

## SPECIFICATIONS

Input Voltage: DC 12V

Input Current: 40mA Max

Input Power: 1.5W

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 / Outdoor Use

Detection Range: 50ft Max

Mounting Height: 20ft 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: IP66

Color: White

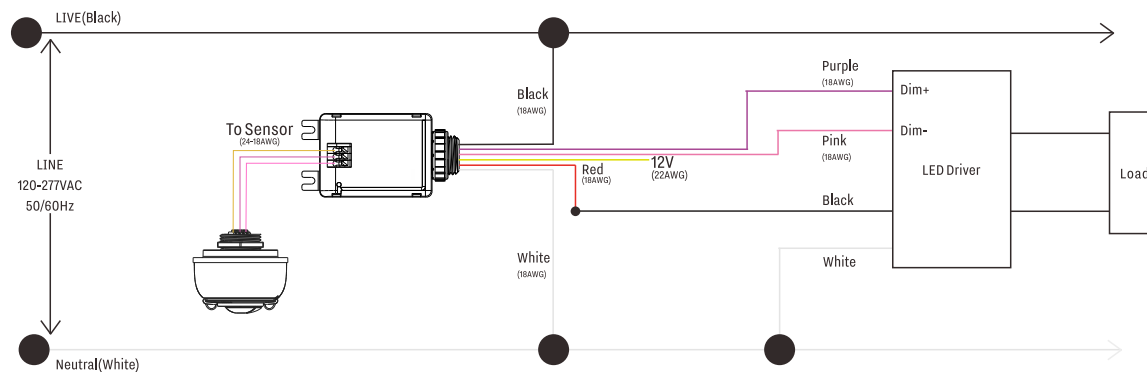
Warranty: 5 years warranty

Comply to UL8750, RoHS

Safety: cULus Listed LED Controller  
E504054

MODEL	DESCRIPTION
EFS07	External Low Voltage Sensor

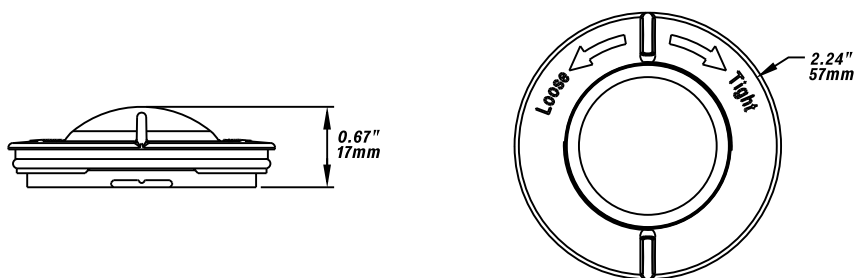
## WIRING



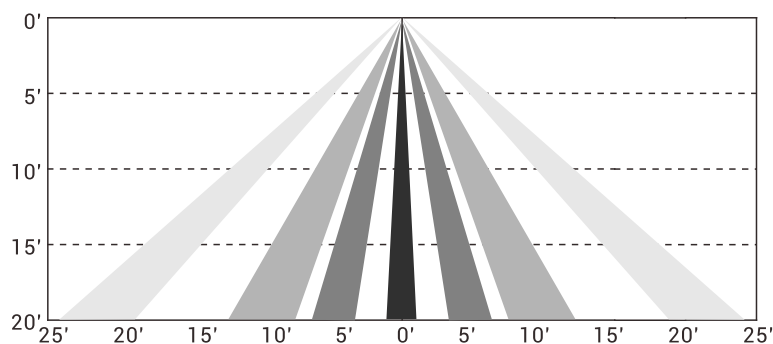
## DIMENSION

Unit: inch/mm

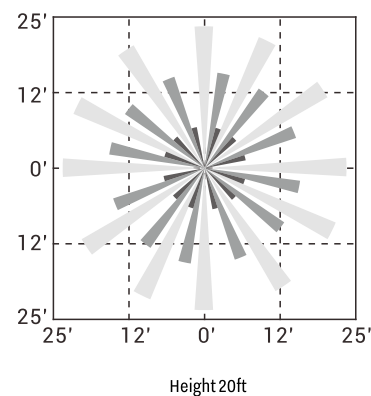
**MBL1**



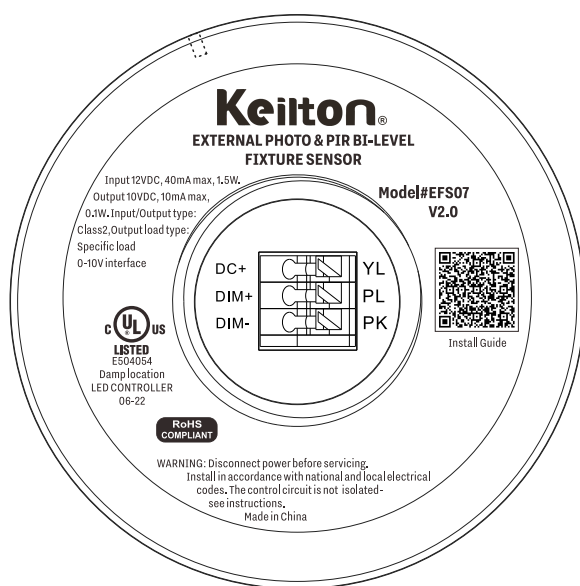
**Coverage Side View**



**Coverage Top View**



## MARKING



## 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

