



PROJECT

TYPE

DATE

ITEM NO.

NOTE

## HIGH BAY/LOW BAY PASSIVE INFRARED OCCUPANCY SENSOR

**APS-819P-B-O**  
PIR lighting controls

### DESCRIPTION

Alphalite's High Bay/ Low Bay Occupancy Sensors are specially designed for high mounted areas such as warehouses, manufacturing and other high ceiling applications. The APS-819P-B-O installs directly to an industrial luminaire or an electrical junction box. It is a self-contained sensor and relay that detects motion using the passive infrared (PIR) to sense sources (such as a person entering a room) within its field-of-view (monitored space) and automatically switches lights ON. The controlled lights will remain ON until no motion is detected and the scheduled time-delay has expired. The APS-819P-B-O is supplied with two interchangeable lens rings that allows the user to select between a 360 degree High Bay/Low Bay pattern or an aisle pattern. The sensor controls the lights to balance light level in the space, combining convenience, and exceptional energy savings.



### CONTROLS READY

Compatible Alphalite fixture will be shipped controls enabled with APS-819P-B-O installed on the fixture. Fixtures will be compatible with Alphalite Daylight Sensor which can be added in the field for remote mounting.

## ORDERING INFORMATION

Order code is -PIR and it is available with the following Alphalite products:

EHB Series -  
Slim Linear LED High Bay



ILL Series -  
Linear LED Strip



RXL Series -  
LED Linear Retrofit Kit



LBW Series -  
LED Utility Wrap Luminaire



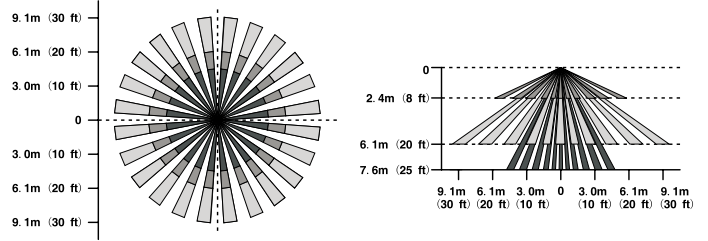
CBW Series -  
LED Basket Wrap Luminaire



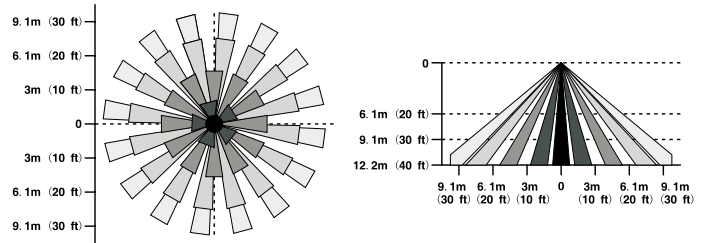
SUMMARY

Operating voltage	120-277Vac, 50/60Hz
Rated load	Incandescent/Halogen- 800W/1200W@120/277V Fluorescent Ballast/CFL- 800W/1200W@120/277V Ballast Electronic (LED)- 800/1200VA@120/277V
Detection zone	L1: 360° lens, 48' diameter (@8' mounting height) L2: 360° lens, 60' diameter (@40' mounting height)
Detection sensitivity	20%/ 50%/ 75%/ 100%
Time Delay	10s/ 1min/ 5min/ 10min/ 30min/+∞
Daylight sensor	10lux/ 50lux/ 300lux/ Disable
Humidity	Max. 95% RH
Operating temperature	-40°F ~ +167°F (-40°C ~ +75°C)

L1 (Low Bay Lens) Suggested installation height: 8'-20'

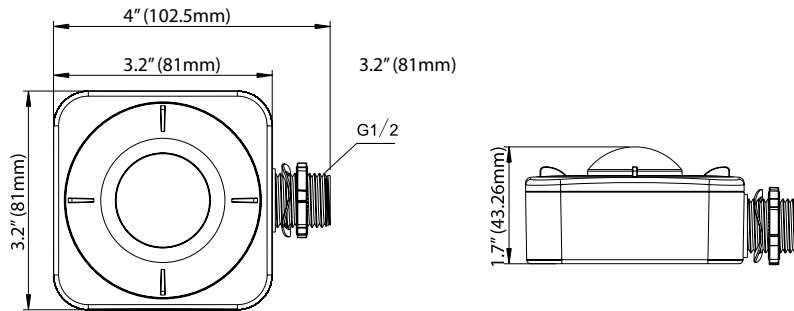


L2 (High Bay Lens) Suggested installation height: 20' and above

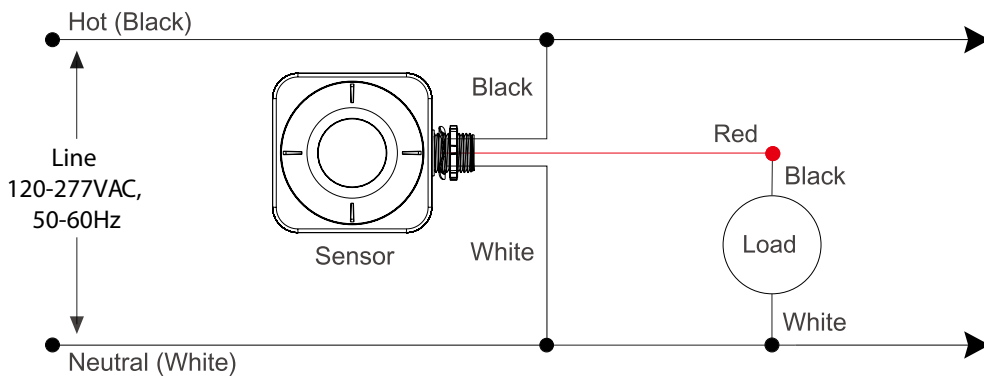


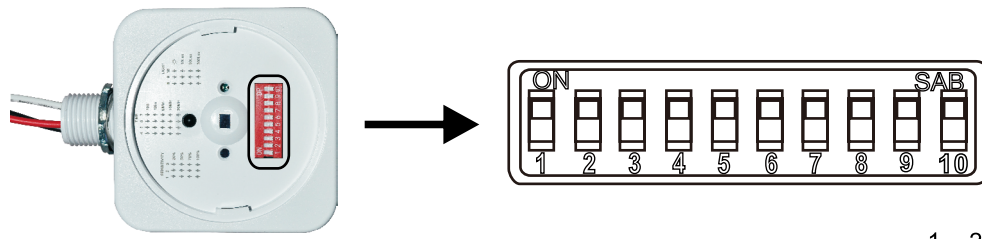
PHYSICAL PARAMETERS

DIMENSION



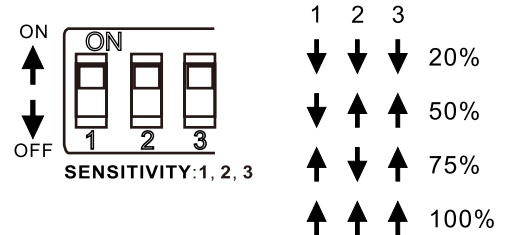
WIRING DIAGRAM





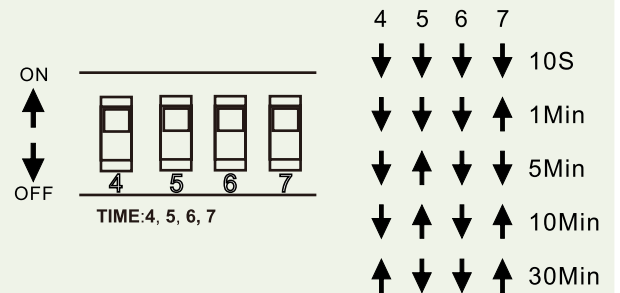
**DETECTION RANGE - SENSITIVITY:**

Detection range can be reduced by selecting the combination on the DIP switches to fit precisely each application .



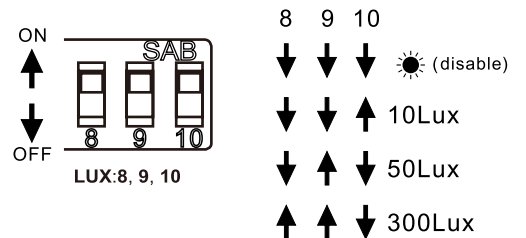
**HOLD TIME :**

Refers to the time period the lamp remains at 100% illumination after no motion detected.



**DAYLIGHT SENSOR:**

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold. When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light level. 100lux, 100lux,50lux: twilight operation, 10lux, 5lux: darkness operation only. Note that daylight sensor is active only when lamp totally switches off.



**TROUBLESHOOTING**

**LIGHTS WILL NOT TURN ON**

- Circuit breaker or fuse is OFF: Turn the breaker ON. Ensure the lights being controlled are in working order (i.e., working bulbs, ballasts, etc.)
- Sensor is wired incorrectly or may be defective: Confirm that the sensor's wiring is done correctly and inspect visually for problems.
- Lens is dirty or obstructed: Inspect the lens visually and clean if necessary, or remove the obstruction.

**THE SENSITIVITY IS POOR**

- Lens is dirty or obstructed: Inspect the lens visually and clean if necessary, or remove the obstruction.
- Ambient temperature: Sensor may be mounted too closely to an air conditioning or heating vent: Move the sensor or close the vent.
- The line voltage has dropped: Perform the necessary tests to ensure the line voltage has not dropped beneath 100V.
- Signal source in the detection fields: Check installation height corresponds to the height indicated in this manual and placement of sensor in relation to movement flow.

**LIGHTS WILL NOT TURN OFF**

- Sensor is wired incorrectly or may be defective: Confirm that the sensor's wiring is done correctly and inspect visually for problems.
- Signal source in the detection fields: Check if there are continual signals in the detection fields.
- Ambient temperature: Sensor may be mounted too closely to an air conditioning or heating vent: Move the sensor or close the vent.
- Time delay set improperly: Adjust the TIME DELAY.