BLUETOOTH
WIRELESS PIR SENSOR KIT

KT31549

Overview

The Bluetooth Low Energy (BLE) fixture mounted passive infrared (PIR) motion sensor and photocell is a versatile sensor designed for use in indoor highbay and lowbay applications. The sensor includes bi-level dimming and time delay capabilities that can be adjusted using the onboard trimpots and dipswitches.

The Android and iOS compatible PacWave™ Sensor mobile application allows for increased customizability of the time delays, dimming levels and photocell sensitivity. In addition, the mobile application allows for manual dimming from 0-100% as well as stored profiles for simple commissioning of multiple sensors.

The BLE sensor kit includes a power pack with relay capable of switching LED loads up to 10A in the event the fixture driver does not have Dim-To-Off capabilities.

Features

- Quad Element PIR Sensor
- 0-10V configurable output
  - 0%(OFF), 10%, 25%, or 50% dimming using dipswitches
  - Adjust dimming increments by 1% using the PacWave™ Sensor mobile application
- Photocell for daylight harvesting
- 2 adjustable time delays (TD1, TD2)
- Mounting height up to 40 ft.
- 360° detection pattern
- Low bay lens accessory available
- Bluetooth connectivity to change settings with greater customization from ground level
- Includes dropdown arm assembly with 4 height settings for greater fixture compatibility
- Includes power pack with high current relay
  - Up to 10A loads
  - 120-277V input
- LED motion indicator

Sensor Operation

- Bi-Level Dimming with Trimpots and Dipswitches:

  When motion is detected the sensor will bring the light up to 100% lumen output. After time delay 1 (TD1) is reached, the light will dim to the first preset dimming level. If no motion is detected for time delay 2 (TD2), the sensor will shut the light off. If TD1 is set to 10 min, the light will not shut off.

- Bluetooth Low Energy mobile application:

  The sensor will operate the same way as with using the trimpots and dipswitches except these setting will be overridden with the settings determine in the Android and iOS compatible mobile application. TD1, TD2, dimming levels, photocell sensitivity and detection sensitivity can be changed with greater precision in the mobile application. The mobile application will also give the user the ability to store profiles and observe real time feedback from the sensor. The luminaires can also be manually dimmed to bypass time delays and/or troubleshoot.

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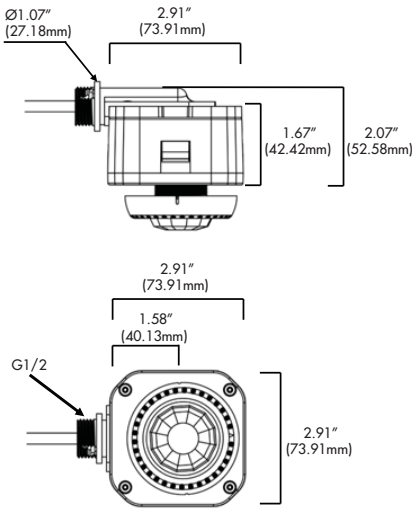
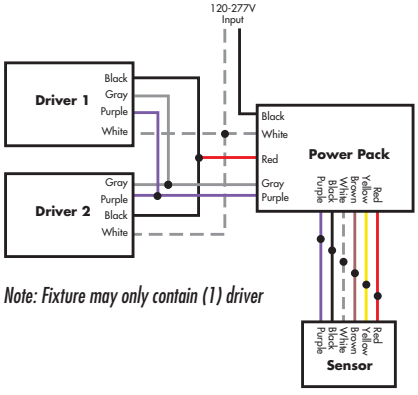
Download PacWave™ Sensor App

Dimensions



Wiring



Note: Fixture may only contain (1) driver

Accessories

☐ **LN13720** - 8-30 ft (2.4-9.1 m) Fresnel Low bay lens

Bluetooth Wireless Bi-level Dimming PIR Sensor Kit

Specifications

Sensor Type	PIR occupancy sensor
Input Voltage | Current Consumption	12-24 VDC | 25 mA sensor (50 mA w/ BLE)
0-10V Output	100 mA, up to 50 LED sink drivers
High	Vin-2.5 V 100 mA source
Low	100 mA sink current
Max Range*	40ft (12.2m) radius
Time Delays (TD1/TD2)**	5 sec/10 sec, 5 min/30 min, 15 min/45 min, 30 min/60 min, 10 min/∞****
Photocell Sensitivity (approximate)**	ON <30Lux, OFF >100lux
Max Bluetooth Range***	49 ~ 65ft (15 ~ 20m)
Operating Temperature	-30° C to 70°C
Storage Temperature	-40° C to 80°C
Relative Humidity	90-95% non-condensing at 30°C
Color	White
Warranty	5 years

* Range of the sensor is subject to variation because of different types of clothing, backgrounds, and ambient temperature. Therefore, ensure that the lens is properly oriented along routes with expected traffic

** Bluetooth versions enable adjustment of sensor parameters such as time delay, dim level, sensitivity, ON/OFF daylight detection, and more.

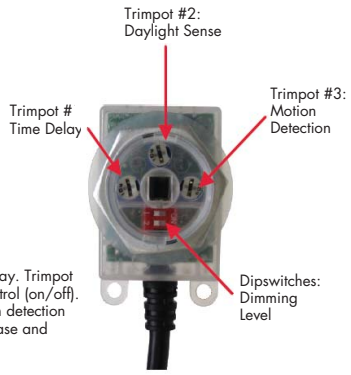
*** Bluetooth Range is highly dependent on the integration of fixtures, surrounding environment and conditions. It is recommended to conduct testing for range accuracy.

**** If TD1 is set to 10 min, TD2 will never expire. So the light will remain at the dim level for as long as motion is not detected.

Manual Setting Adjustments

Dipswitch 1	Dipswitch 2	DIM Level
OFF	OFF	OFF
OFF	ON	10%
ON	OFF	25%
ON	ON	50%

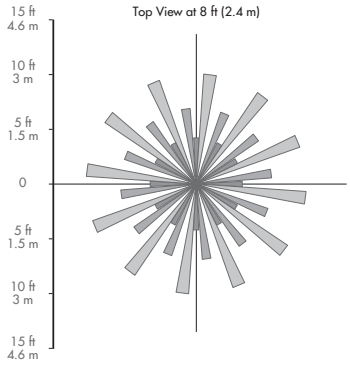
Trimpots

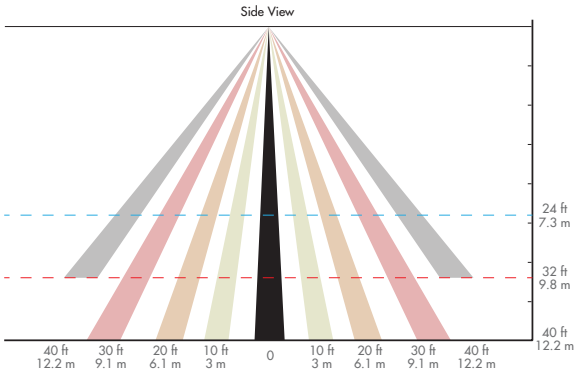


Trimpot #1 on left adjusts time delay. Trimpot #2 in middle daylight sensing control (on/off). Trimpot #3 on right adjusts motion detection sensitivity. Turn clockwise to increase and counterclockwise to decrease.

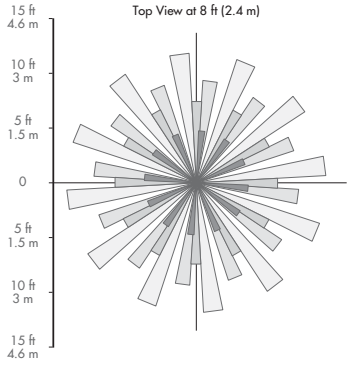
Detection Area

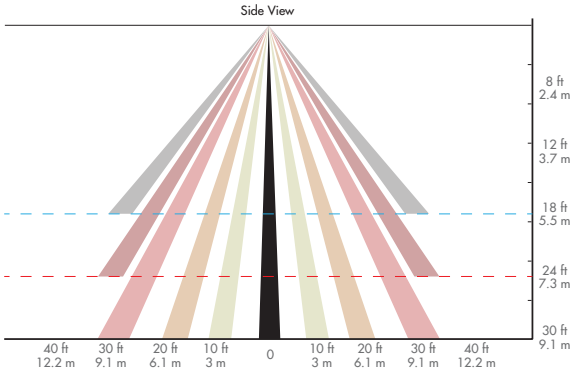
Highbay Lens





Lowbay Lens





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