Fidelux

FTRV-PIDS Series Sensor

Programmable IR Dual Occupancy & Daylight Sensor with Blue-tooth smart phone application, Field Programmable with Grouping & Scheduling



Features

- Occupancy sensor and daylight harvesting sensor; Embedded Blue-tooth communication Infrared module
- Three interfaces: DC+5V/GND/PWM
- Low profile design blends into any luminaries
- Operated by FTRV-PIDS Blue-tooth Remote APP(LR). (See Blue-tooth App(LR) Manual for programming)
- Working temperature: -20° +45°C

Input Voltage	DC +5 \pm 0.5V
Input Current	35 mA Max
Damage Input Voltage	DC >15V
Output Signal	PWM 3.3V
Output Signal Frequency	8 KHz Max
Communication Protocol	Bluetooth 4.0
Communication Frequency	2405 ~ 2480 MHz
Communication Interface	UART / I2C / SPI
Maximum Output Power	8 dBm
Maximum Coverage Indoor	98.43 ft
Maximum Occupancy Detection Distance	19.69 ft
Occupancy Detection Angle	120°
Daylight Harvesting Intensity Range	1-1000 lux
Connector Required	1571/28# 5P 1.25 gap
Dimensions (L x W x H)	18.31″ x 11.61″ x 7.52″
Working Temperature	-20° - +40°C

Specifications

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1.04"

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Notes

False Triggering:

- 1. Small animals enter into the detecting coverage
- 2. Far-infrared rays from sunlight, car headlight, filament lamps radiate to the sensor
- 3. Temperature varies sharply because of warm / cold air or humidifier's vapor in the detecting coverage

Difficult Triggering:

- 1. Glass or acrylic materials hard to penetrate through the far infrared ray exist between the sensor and occupant detected
- 2. Non-moving or high speed hot objects

• The detected distance combining with various conditions include sensor's SNR, Fresnel lens' imaging distance, occupant's temperature, ambient temperature, ambient humidity, electromagnetic interface and more lead to the complicated relations. Thus it fails to judge the output only by single index.

Product Diagram

