Beghelli

powered by MW Connect

RSDC

Wireless PIR Ceiling Mount Sensor

Overview

- Casambi Bluetooth mesh for versatile programming and control
- Quad Element PIR sensor
- LED Motion indicator
- Mounting height up to 12ft (3.7m).
- 360° coverage pattern

Bluetooth®

CASAMBI

Applications

The Wireless **RSDC** uses digital PIR Motion Detector Architecture and Quad Element passive infrared (PIR) technology for improved detection coverage for ceiling mount applications.

The sensor is suitable for a variety of indoor applications. It supports ceiling mounts up to 12ft high. Sensor is rated for use in temperatures ranging from -30° to 70°C and relative humidity from 90 to 95% at 30°C. White finish standard.

Sensor Operation

Bluetooth smart and Bluetooth mesh: The **RSDC** sensor comes with wireless control. The Bluetooth Low Energy (BLE) enabled sensor pairs with an Android or iOS application to allow initial setup and subsequent sensor adjustments. The mobile application enables users to adjust sensor parameters such as time delay, sensitivity, and more. Additionally, features such as parameter profiles, password protection, and real-time feedback from the sensor can speed up configuration and provide custom user control. The Bluetooth Smart™ enabled sensors support mesh networking through a variety of software and wireless platforms.

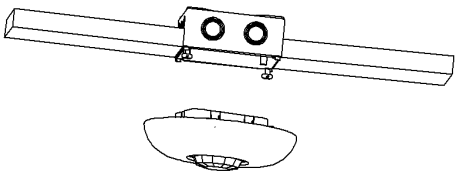
Software

Casambi Mobile Application for Bluetooth mesh control

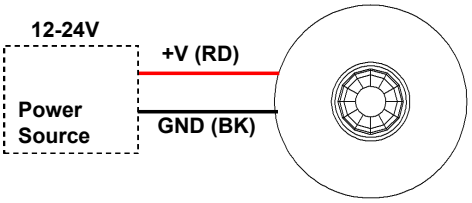
Casambi Lifestyle

Installation

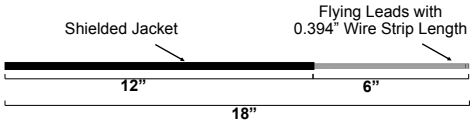
The **RSDC** operates on 12-24VDC input and can be powered by the 12V auxiliary output of the Beghelli RLY room controller. A separate power pack is also available to convert from 120/277 line voltage to 12V or 24V for sensor input. The **PP12V** converts 120/277V input to 12V output and can fit in a j-box. The **PP24V** converts 120/277V input to 24V output, includes a 20A relay and installs easily into a j-box knock-out.



Wiring Diagram



Lead Info:



How to Order

Accessory	Description	Input Voltage
RSDC	Wireless Passive Infrared (PIR) Occupancy Sensor, Casambi Bluetooth Mesh	12-24VDC
PP12V	Power Pack, 12V Output (no relay), Mount in Fixture or Electrical Enclosure	120-277V
PP24V	Power Pack with 20A Relay, 24V Output, Mount in Fixture or Electrical Enclosure	120-277V

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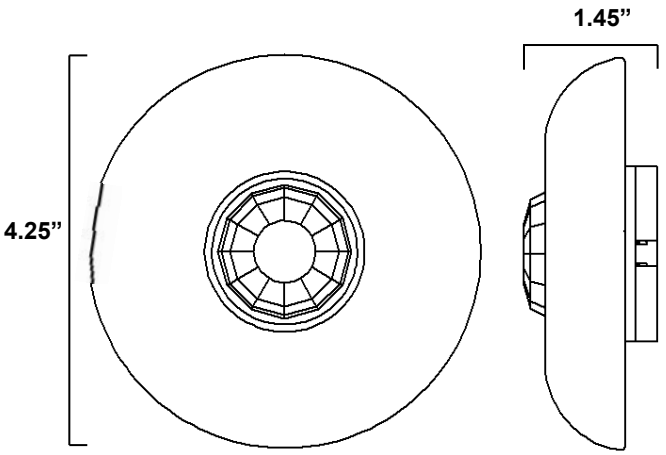
RSDC

Summary	
Sensor Type	Wireless PIR occupancy sensor
Input Voltage | Current Consumption	12-24VDC | 50mA
Mounting Height	Ceiling mount up to 12ft (3.7m)
Max Range*	37ft (11.3m) radius
Max Bluetooth Range**	49 ~ 65ft (15 ~ 20m)
Time Delay	Varies
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

Note:
*The absolute 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 and conduct testing along those routes.
**Bluetooth Range is highly dependent on the integration of fixtures, surrounding environment and conditions. It is recommended to conduct testing for range accuracy.

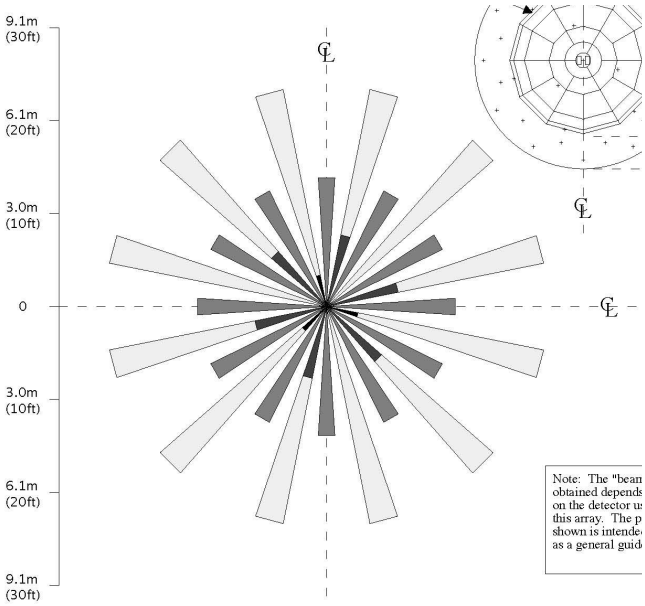
(MW Connect: PSC-ND-I-CM-DC-BLE-CB)

Physical Dimensions

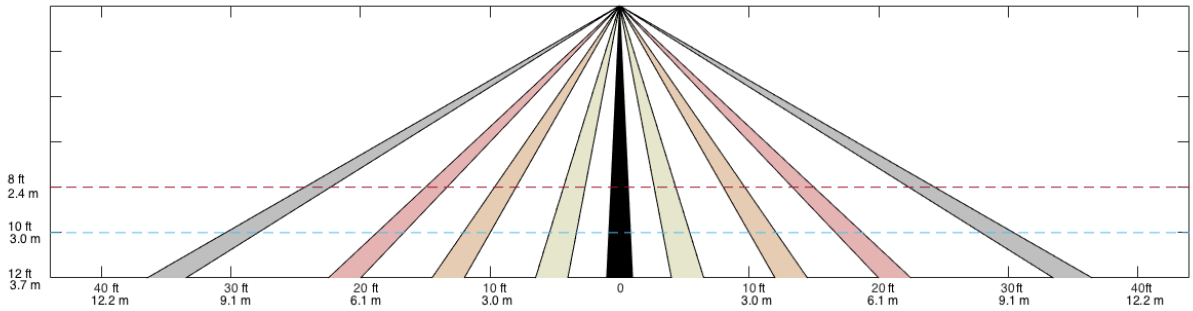


Detection Area

Standard Lens -Top View at 12 ft



Side View



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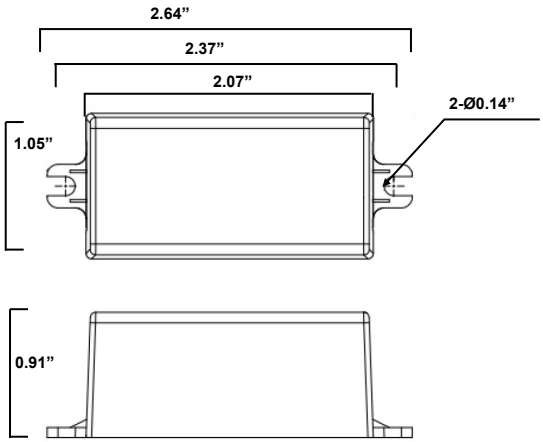
PP12V Power Pac Accessory

Suitable for indoor use only



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Summary

Product Type:
Power Supply

Input Voltage | Current Consumption:
120V~277V, 50/60Hz | 5.5W

12VDC Output: 250 mA

Mounting:
Fixture or Electrical Enclosure

Max Case Temperature:
90°C

Operating Temperature:
-30° C to 70°C

Storage Temperature:
-40° C to 80°C

Relative Humidity:
90-95% non-condensing

Color: White

Warranty: 5 years

MW Connect: PSC-AC-PP-400

Overview

- Self Contained Power Supply
- Mount In Fixture Or In Electrical Enclosure
- 120-277VAC Input Voltage
- 12VDC Auxiliary Output

Applications

The **PP12V** Power Pack (12VDC) incorporates a line voltage transformer that can accept universal input (120~277VAC). Tabs allow for easy mounting in light fixture or electrical enclosure.

The device is ideal for powering sensors, controllers or other products.

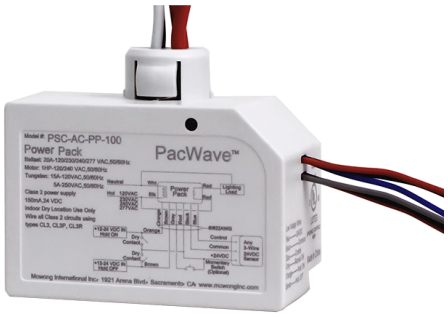
Operation

The **PP12V** universal voltage power pack provides 12VDC to power occupancy sensors and fixture controllers.

Wiring Table

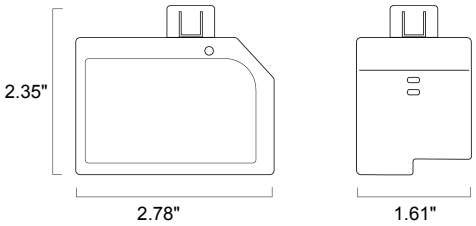
Wire	Designation	Notes	Size
Black	Line Input	Connect to Line Power	18AWG, 300V, 105+/-10 mm, Strip 8mm Tin Plated
White	Neutral Input	Connect to Neutral Power and Luminaire Power Input	
Red	12VDC+ Power Output	Connect to Sensor Power Input (12V+)	22AWG, 300V, 110+/-10 mm, Strip 10mm Tin Plated
Black	12VDC- Power Output	Connect to Sensor Power Input (12V-)	

PP24V Power Pac Accessory



Suitable for indoor use only

E350664



Summary

Product Type:
Power Pack

Input Voltage | Current Consumption:
120V or 277V, 50/60Hz | 5.5W

Load:
20A@ 120/277 VAC (ballast)
20@ 120VAC (incandescent)
Motor 1 HP @120/240

Output: 24VDC, 150 mA

Switch Input: Momentary Input

Switch Input: 12-24VDC Input for Hold On

Senor Input: Active High Input

Mounting
Fixture or JBOX Mount

Max Case Temperature:
90°C

Operating Temperature:
-30° C to 70°C

Storage Temperature:
-40° C to 80°C

Relative Humidity:
90-95% non-condensing

Color: White

Warranty: 5 years

Overview

- Self Contained Power Pack
- Mount In Fixture or Electrical Enclosure
- Power for Low voltage Devices (24 VDC)
- Capable Of Switching Loads Up To 20A
- Zero Cross Switching Relay
- Sensor Input (Active High)
- Momentary Switch Input
- Hold On Input
- Hold Off Input

Application

The **PP24V** Power Supply (24VDC) incorporates a line voltage transformer which can accept universal input (120-277VAC). Additional features include: momentary switch input using the LVMS decora style switch, low voltage input for hold-on and hold-off. The power supply also has a 20A zero cross switching relay.

Typical applications include lighting controls in classrooms, lobbyies, corridors, open offices, and warehouses.

Operation

The **PP24V** universal voltage power pack provides 24VDC to power occupancy sensors and fixture controllers.

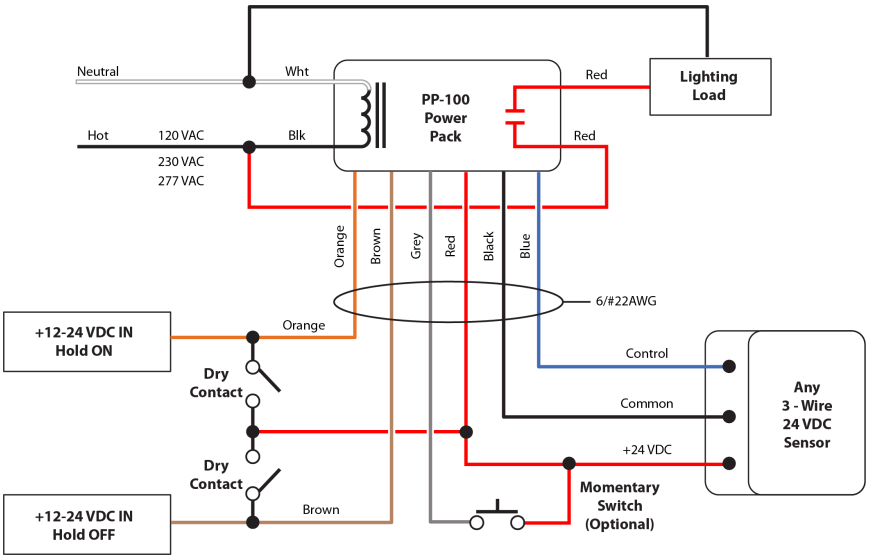
The **PP24V** turns on and off line voltage in response to occupancy sensors and switch inputs.

The power supply can be mounted on a j-box or light fixture.

PP24V Power Pac Accessory

Wiring Table

Wire	Designation	Notes	Size
Black	Line Input	Connect to Line Power	#12 AWG, 300V 105+/- 20mm, Strip 10mm, Tin Plated
White	Neutral Input	Connect to Neutral Power	
Red	Load Output	Connect to Luminaire Power Input	
Red	12VDC+ Power Output	Connect to Sensor Power Input (12V+)	#22 AWG, 300V 110+/-10mm, Strip 10mm Tin Plated
Black	12VDC- Power Output	Connect to Sensor Power Input (12V-)	
Blue	Control Input	Connect to Sensor Ouput or Similar Device	
Orange	12-24VDC In	Connect to Dry Contact for Hold On	
Brown	12-24VDC In	Connect to Dry Contact for Hold Off	
Gray	Momentary Switch Input	Connect to Momentary Switch for On/Off	



Example: Controller Installed In Electrical Enclosure, Low Voltage Wired Sensor And Switch