MCWONG

IoT Mesh Sensors & Controls

McWONG

Incorporated in the state of California in 1985, McWong International, Inc. has grown to become a strategic supplier of high-quality lighting control equipment and related electrical components.

For over 30 years, we have provided to our customers an unparalleled mix of innovation, quality, and service. Today, the pace of technological change has quickened and competition continues to intensify. We are meeting these challenges through heightened investment in capable individuals, promising technologies, and advanced manufacturing facilities.

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Additional Resources

Visit our website **www.mcwonginc.com** to learn more about how McWong's Sensors & Controls can benefit your company.

TruBlu™ Overview

McWong's TruBlu™ is a comprehensive and flexible SIG-qualified Bluetooth Mesh lighting control solution of intelligent hardware devices and Silvair-powered software tools. Hardware choices include a wide variety of McWong occupancy and motion sensors, wireless switches, dimming power packs, and fixture controllers to meet customers' specific connected lighting control needs and requirements. The control infrastructure is flexible and future-friendly for scaling beyond lighting to enable value-added IoT services.

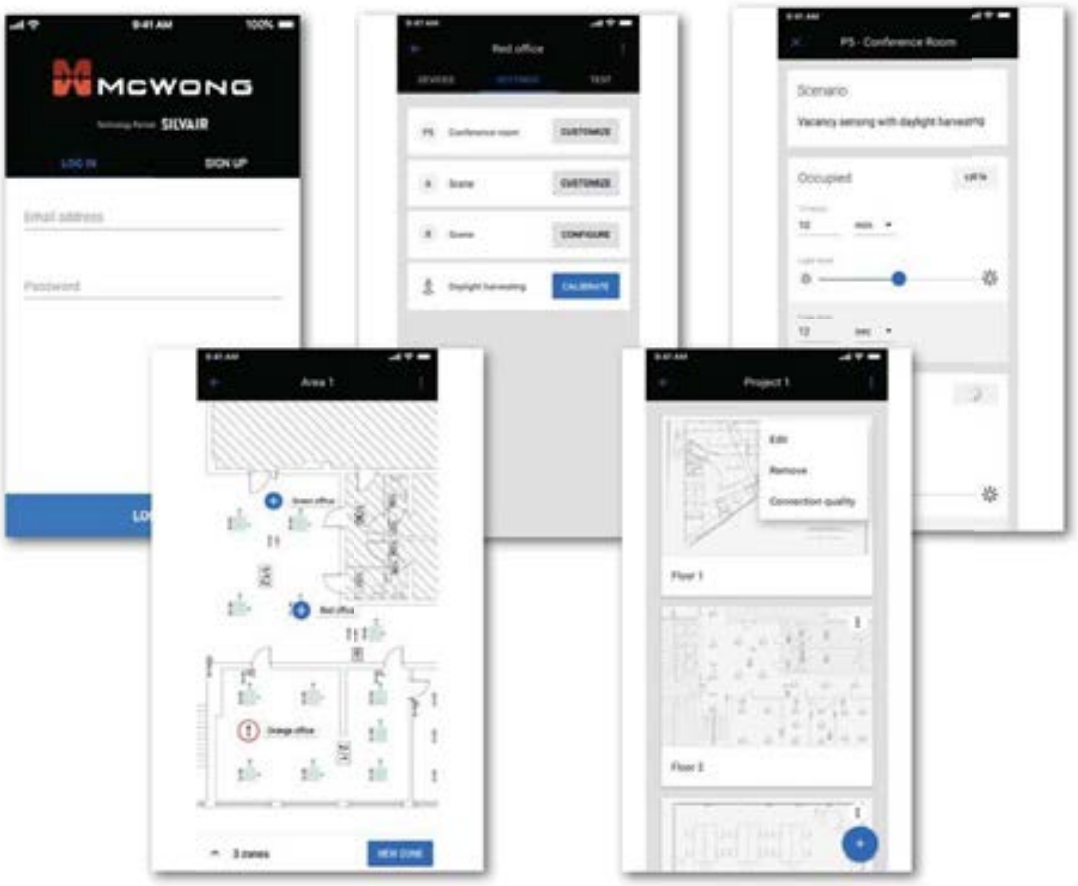
- Code-compliant occupancy detection
- Sensor-based automation
- Manual control with wireless switches/dimmers
- Customizable daylight harvesting scenarios
- Basic to advanced lighting control scenarios
- Supports large-scale installations
- Interoperable with other Bluetooth Mesh qualified lighting devices
- No specialized training or lighting control expertise required

Software Tools

The TruBlu™ Web portal is the hub of any lighting installation. Design professionals and installers in advance of an actual installation can manage lighting installation projects, plan commissioning along with mapping zones on a floor within a building, setting up control scenarios for zones and managing users collaborating on the project. The TruBlu™ iOS app is the mobile tool used onsite to commission devices according to the commissioning plan set up earlier in the TruBlu™ web portal. The iOS app may also serve as a freestanding commissioning tool for small projects or fine-tuning systems on the fly, offering functionality for system management, control parameters and zone grouping. Software tools are powered by McWong's technology partner, Silvair, which offers a fully qualified Bluetooth Mesh stack compliant with the published SIG specification.

TruBlu™ APP Interface

Used on site to commission the devices with the commissioning plan set up earlier in TruBlu™ web app. It can also be used to perform any fine-tuning or commissioning small projects without the need of using web app as it provides the basic features for managing the project and zones.



TruBlu™ Web app

Used off site to manage lighting installation projects, plan commissioning along with mapping zones on a floor within a building, setting up control scenarios for zones and managing users collaborating on the project.

Casambi Enabled McWong software Overview

The Casambi application interface provides comprehensive controllability to McWong's Bluetooth®-enabled Smart Sensor Control Platform. The McWong platform of devices include dimming occupancy sensors (PIR, ultrasonic, and microwave); fixture controllers, and dimming wall switches.

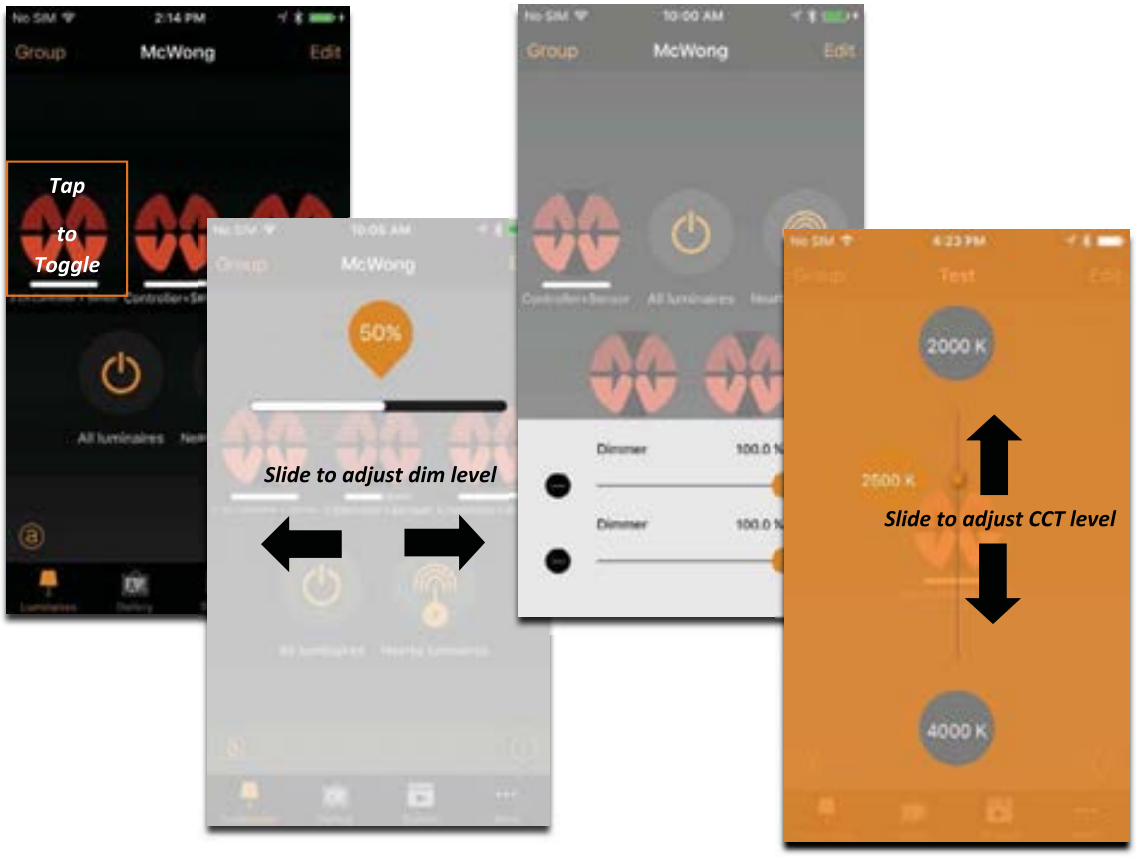
With the Casambi app, users have a full range of control parameters, including ON/OFF; dimming; grouping; adjustable ramp and fade for dimming functions; scenes; scheduling functions (ON/OFF or other light level by time and date or astronomical); white color tuning; and much more. System setup and commissioning is simplified, with auto-discovery and device pairing without the need for additional wiring, gateways or other devices. Ongoing network operation is self-healing and in constant synchronization with no single point of failure. In the event a device goes offline, it can be automatically updated from other network nodes when it returns online.

Users and administrators can easily update all network devices with a broadcast firmware update to adjust system capabilities to meet future needs. Similarly, managers can obtain continuous data about system performance at anytime through the Casambi app.

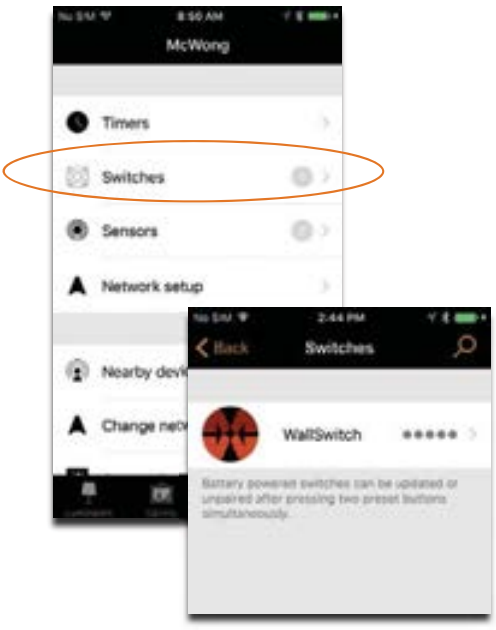
Casambi Enabled McWong App Interface

Casambi Android and iOS App

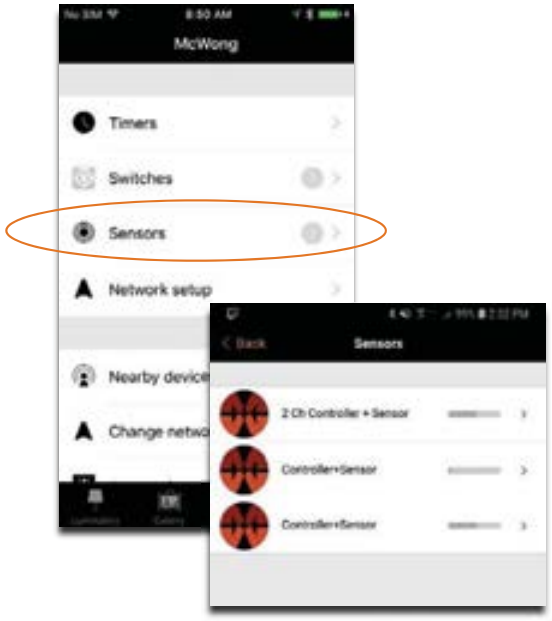
The Casambi app functions as one of the user interfaces in a Casambi-enabled McWong lighting control solution. The app also acts as a commissioning tool and as a remote gateway.



Basic Gesture Control



Switch Interface



Sensor Interface

Sensors and Controllers

Product #	Description	Tech	Input Voltage	Mounting	Indoor/ Outdoor Rated	Suggested Applications	Wireless Options "-XX"	
							-SR	-CB
Fixture Mount Sensors								
PSC-BL-I-FM-DC0-BLE-XX	Bi-level PIR Occupancy Sensor	P	12-24VDC	FM, CM	Indoor/ Outdoor*	OC, WH, PG, AP	Y	Y
PSC-BL-I-FM-DC0-BLE-XX-S	Bi-level PIR Occupancy Sensor Wet Location Side Mount	P	12-24VDC	FM, CM	Outdoor	OC, WH, PG, AP	Y	Y
PSC-BL-I-FM-DC0-BLE-XX-B	Bi-level PIR Occupancy Sensor Wet Location Bottom Mount	P	12-24VDC	FM, CM	Outdoor	OC, WH, PG, AP	Y	Y
PSC-BL-I-RD-DC0-BLE-XX	Bi-level PIR Remote Mount Occupancy sensor Daylight Harvesting	P	12-24VDC	FM, CM	Indoor	OC, SP	Y	Y
PSC-BL-I-RT-DC0-BLE-XX	Bi-level PIR Remote Mount Occupancy sensor	P	12-24VDC	FM, CM	Indoor	OC, SP	Y	Y
PSC-BL-I-FM-110-BLE-XX	Bi-Level PIR Occupancy Sensor w/Load Switch	P	120-277VAC	FM	Indoor	OC, WH, PG	Y	Y
PSC-ZA-I-100-XX	Plug-in Ready PIR Sensor	P	12-24VDC	ZA	Outdoor	OC, WH, PG, AP	Y	Y
PSC-BL-M-FM-DC0-BLE-XX	Bi-level Microwave Occupancy Sensor	M	12-24VDC	FM, CM, WM	Outdoor	OC, WH, AP	Y	Y
PSC-BL-M-FC-DC0-BLE-XX	Bi-level Microwave Occupancy Sensor	M	12-24VDC	FM, CM, WM	Indoor	OC, WH, AP	Y	Y
PSC-BL-M-RT-DC0-BLE-XX	Bi-level Microwave Remote Mount Occupancy sensor	M	12-24VDC	FM, CM, WM	Indoor	OC, PG, BD	Y	Y
PSC-ZA-M-100-XX	Plug-in Ready Microwave Sensor	M	12-24VDC	ZA	Outdoor	OC, WH, AP	Y	Y
PSC-BL-U-FM-DC0-BLE-XX	Bi-level Ultrasonic Occupancy Sensor	U	12-24VDC	FM, CM	Indoor	SP, LR, HS	Y	Y
Fixture Mount Controller Modules								
PSC-WCM-50-DC0-BLE-XX	Wireless Fixture Controller Module		12-24VDC	FM	Indoor	SP, OC, LR, HS, WH, AP, PG, BD	Y	Y
PSC-WCM-60-DC0-BLE-XX	Wireless Fixture Controller Module, w/o SEN Input		12-24VDC	FM	Indoor		Y	Y
PSC-ZA-100-XX	Plug-in Ready Fixture Controller Module		12-24VDC	ZA	Outdoor		Y	Y
PSC-ZA-110-XX	Plug-in Ready Fixture Controller Module w/ Light Sensing		12-24VDC	ZA	Outdoor		Y	Y
PSC-WCM-200-DC0-BLE-XX	HV Wireless Fixture Controller Module		18-48VDC	FM	Indoor		Y	Y
PSC-WCM-200-EC-DC0-BLE-XX	HV Wireless Fixture Controller Module, dimming only		18-48VDC	FM	Indoor		Y	Y
PSC-WCM-100-DC0-BLE-XX	Wireless Fixture Controller Module		12-24VDC	FM	Indoor		Y	Y
PSC-WCM-100-EC-DC0-BLE-XX	Wireless Fixture Controller Module, dimming only		12-24VDC	FM	Indoor		Y	Y
PSC-ZA-200-XX	Wireless Fixture Controller Module w/ 2 channels dimming		12-24VDC	ZA	Outdoor		Y	Y
PSC-ZA-210-XX	Wireless Fixture Controleer Module w/ 2 channels dimming and Light Sensing		12-24VDC	ZA	Outdoor		Y	Y
Ceiling Mount Occupancy Sensor								
PSC-ND-I-CM-DC-BLE-XX	Ceiling Mount PIR Occupancy Sensor	P	12-24VDC	CM	Indoor	OC	Y	Y
Wall Switch and Wall Switch Occupancy Sensor								
PSC-DM-WS-100-BLE-XX	Wireless dimmer wall switch		12-24VDC	WM	Indoor	SP, OC, LR, HS	Y	Y
PSC-DM-I-WS-100-BLE-XX	Wireless dimmer wall switch	P	12-24VDC	WM	Indoor	SP, LR	Y	Y

*PSC-BL-I-FM-DCO is outdoor use at the Sensor Collar part only. Side and Bottom Mount IP65 enclosure available for completely outdoor sensor option.

Wireless Options, indicate suffix "-XX" for version of Firmware:

-SR	TruBlu™ Technology Partner Silvair
-CB	Casambi

Applications:

Small / Partitioned Office	SP
Open Office / Conference Room	OC
Lavatory / Rest Room	LR
Hallways / Stairwell	HS
Warehouse	WH
Area/Site Lighting / Parking Lot	AP
Parking Garage	PG
Bollard	BD

Tech:

PIR	P
Ultrasonic	U
Microwave	M

Mounting Options:

Fixture Mount	FM
Ceiling Mount	CM
Wall Mount	WM
Plug-in Ready Fixture Mount	ZA

PIR | Microwave | Ultrasonic

McWong IoT Mesh Solutions

c UL us LISTED E341446

McWong's IoT solutions offer a flexible, intelligent control platform that meets current control needs as well as scaled over time to meet emerging needs. Engineered for compatibility with Bluetooth® standards, the entire platform is founded on a patent-pending design for flexible integration of various wireless protocols, including Bluetooth® protocols and other commercially-available wireless control protocols. The platform encompasses a comprehensive range of device choices for virtually any application, indoors or outdoors.

Wireless Outdoor Sensors & Controls
These devices specifically designed for outdoor use are low-voltage, and plug-in ready for field installations. The product line includes microwave and passive infrared motion sensors, photocells, and 1- and 2-channel fixture controllers. With Bluetooth 4.x and Bluetooth 5 options, compatibility for robust networking and communication capabilities, light level and color tuning control and low-voltage connectors, the system offers flexible, future-proof control, the ability for luminaire manufacturers to ship luminaires "IoT-Ready", as well as the ability to seamlessly coordinate control of outdoor and indoor lighting on a single platform.

Wireless Indoor Sensors & Controls
These award-winning devices offer exceptional versatility and future scalability, with a range of occupancy and motion sensors, wall switches and wall switch sensors, ceiling mount sensors, dimming power packs, fixture controllers, and mobile apps (Android and iOS) for remote configuration of sensor and dimming settings. All the components enable 0-10v dimming for compliance with energy code bi-level dimming requirements as well as other performance and energy efficiency strategies, including lumen maintenance, high-end trimming, task tuning, and color tuning if desired.

*** contact manufacturer for other options

How to Order

PSC - BL - I - FM - DC0 - BLE - XX - S/C

Additonal Options:

[Blank]	=	No option (for BL only)
S	=	Side Mount (for BL only)
B	=	Bottom Mount (for BL only)
/C	=	Quick Connectors (for BL only)
M	=	Side/Bottom Mount Kit (for BL only)
A	=	Mounting Arm IP20 (for HB only)

Wireless Mesh Solutions::

SR	=	TruBlu™ Powered by Silvair
CB	=	Casambi

Bluetooth Options:

BLE	=	Bluetooth Enabled

Input Voltage:

DC0	=	12-24VDC Vin (for BL only)
		0-10VDC Dimming (for BL only)

Mounting Method:

FM	=	Fixture Mount
FC	=	Compact Fixture mount
RT	=	Remote Head mounting option
		(only on PIR and Microwave)
CM	=	Ceiling Mount
WS	=	Standard Wall box

Sensor Technology:

I	=	Passive Infrared (PIR)
M	=	Microwave
U	=	Ultrasonic

Application:

BL	=	Bi-level dimming
HB	=	HighBay
ID	=	Indoor
ZA	=	Outdoor, Pluy-in ready
WCM	=	Wireless Fixture Control Module

Product Series:

PSC	=	Sensors & controls

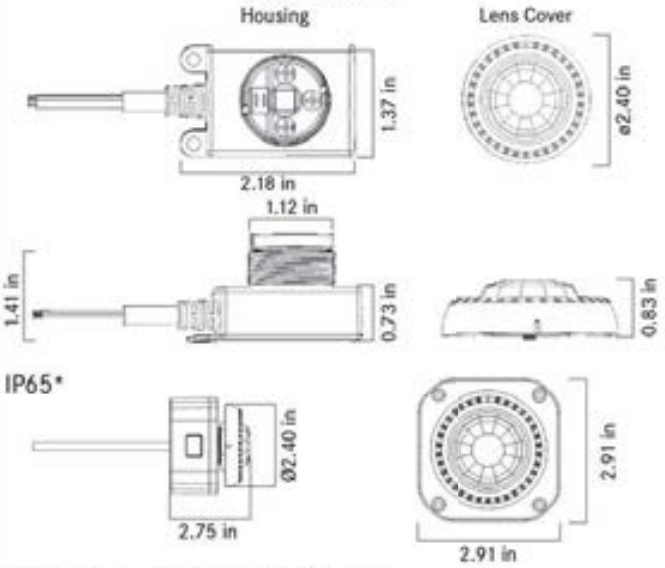
Wireless PIR Occupancy Sensor

Specifications: PSC-BL-I-FM-DC0 (High Bay/Low Bay)

Overview

Sensor Type	Quad element PIR
Input	12-24VDC/ 25mA sensor (50mA w/BLE)
0-10V Dimming	100mA (multiple drivers)
Relay Control	Vin-2.5V 100mA source
Max Detection Area	12m mounting/24m Diameter
Time Delays (TD1/TD2)	TD1: Time to dim level: user configurable TD2: Dim-to-off: user configurable (can disable)
Photocell	Enable / disable
Operating	-30°C to 70°C
Storage Temperature	-40°C to 80°C
Relative Humidity	90-95% non-condensing
Mountiong	Fixture Mount

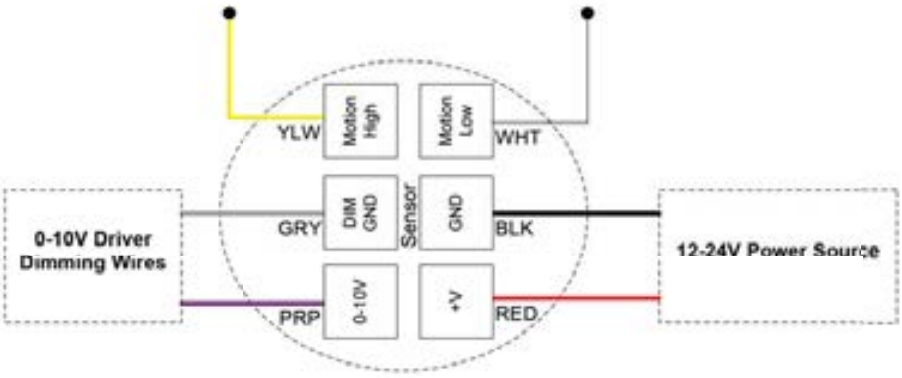
Dimensions



*Option for Bottom/Side mount IP65 Housing

Wiring

Note: if using power pack as power source, connect motion high and/or motion low, depending on power pack relay circuitry.



How to order

Model No.	Description	Input Voltage	Output	IP Rating
PSC-BL-I-FM-DC0-BLE-SR	Bi-Level PIR Occupancy Sensor, TruBlu™ Mesh	12-24VDC	0-10VDC Control High Control Low	IP20/IP65
PSC-BL-I-FM-DC0-BLE-CB	Bi-Level PIR Occupancy Sensor, Casambi Mesh	12-24VDC	0-10VDC Control High Control Low	IP20/IP65

*** contact manufacturer for other options

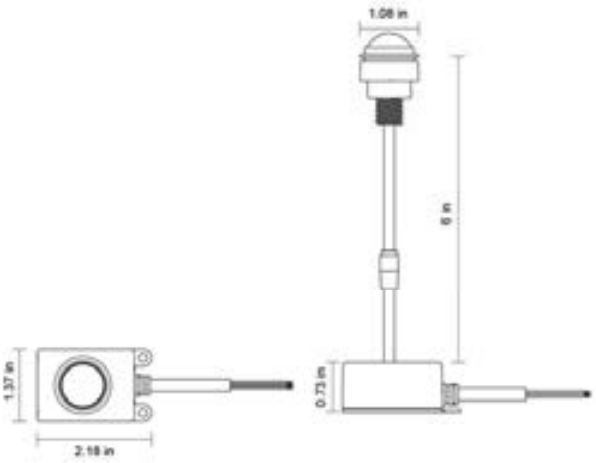
Wireless PIR Occupancy Sensor

Specifications: PSC-BL-I-RT-DC0 (Remote Mount)

Overview

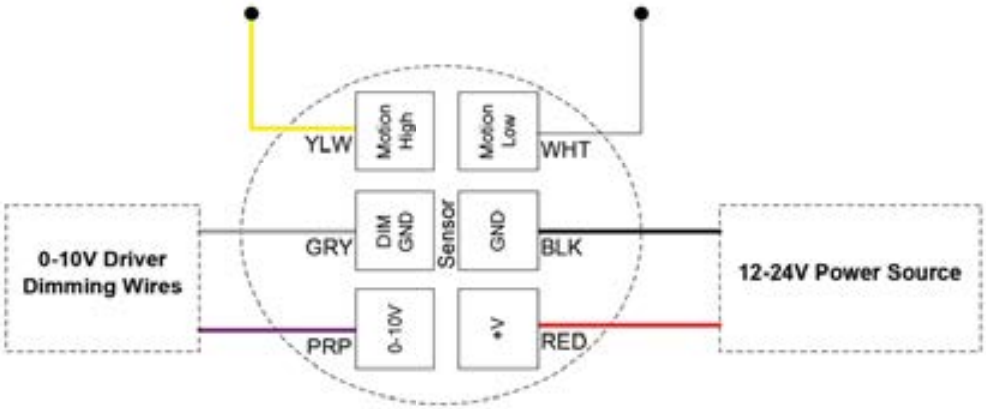
Sensor Type	Quad element PIR
Input	12-24VDC/ 25mA Sensor (50 mA W/ BLE)
0-10V Dimming	100mA (multiple drivers)
Relay Control	Vin-2.5V 100mA source
Max Detection Area	3m mounting/6m Diameter
Time Delays (TD1/TD2)	TD1: Time to dim level: user configurable TD2: Dim-to-off: user configurable (can disable)
Photocell	Enable /disable
Operating Temperature	-30°C to 70°C
Storage Temperature	-40°C to 80°C
Relative Humidity	90-95% non-condensing
Mountiong	Fixture Mount
Color	White

Dimensions



Wiring

Note: if using power pack as power source, connect motion high and/or motion low, depending on power pack relay circuitry.



How to order

Model No.	Description	Input Voltage	Output	IP Rating
PSC-BL-I-RT-DC0-BLE-SR	Bi-Level PIR Remote Mount Occupancy Sensor, TruBlu™ Mesh	12-24VDC	0-10VDC Control High Control Low	IP20
PSC-BL-I-FM-DC0-BLE-CB	Bi-Level PIR Occupancy Sensor, Casambi Mesh	12-24VDC	0-10VDC Control High Control Low	IP20

*** contact manufacturer for other options

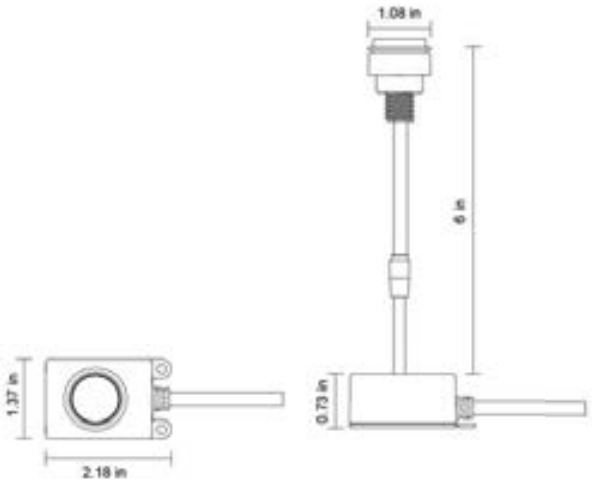
Wireless PIR Occupancy Sensor

Specifications: PSC-BL-I-RD-DC0 (Remote Mount - Daylight Harvesting)

Overview

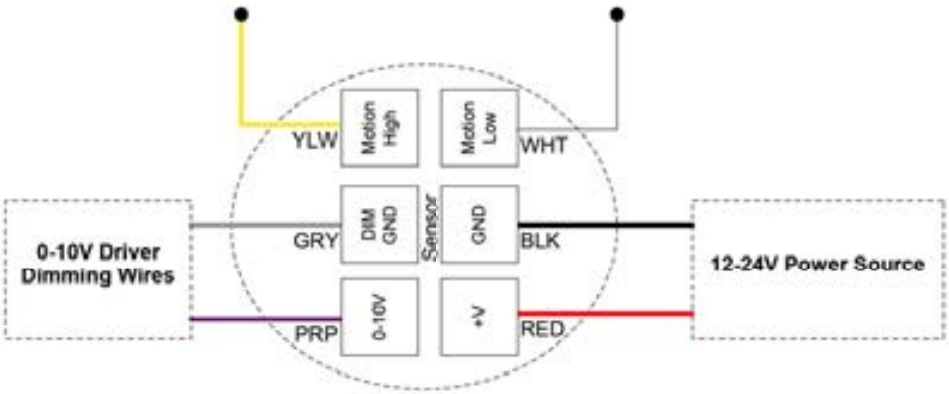
Sensor Type	Quad element PIR
Input	12-24VDC/ 25mA Sensor (50 mA W/ BLE)
0-10V Dimming	100mA (multiple drivers)
Relay Control	Vin-2.5V 100mA source
Max Detection Area	2.4m mounting/4.8m Diameter
Time Delays (TD1/TD2)	TD1: Time to dim level: user configurable TD2: Dim-to-off: user configurable (can disable)
Photocell	Enable /disable
Operating Temperature	-30°C to 70°C
Storage Temperature	-40°C to 80°C
Relative Humidity	90-95% non-condensing
Mountiong	Fixture Mount
Color	White

Dimensions



Wiring

Note: if using power pack as power source, connect motion high and/or motion low, depending on power pack relay circuitry.



How to order

Model No.	Description	Input Voltage	Output	IP Rating
PSC-BL-I-RD-DC0-BLE-SR	Bi-Level PIR Remote Mount Occupancy Sensor Daylight Harvesting, TruBlu™ Mesh	12-24VDC	0-10VDC Control High Control Low	IP20
PSC-BL-I-RD-DC0-BLE-CB	Bi-Level PIR Remote Mount Occupancy Sensor Daylight Harvesting, Casambi Mesh	12-24VDC	0-10VDC Control High Control Low	IP20

*** contact manufacturer for other options

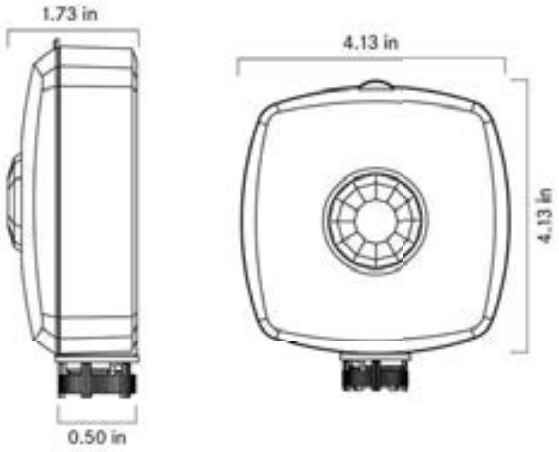
Wireless PIR Occupancy Sensor

Specifications: PSC-BL-I-FM-110 (High Bay/Low Bay)

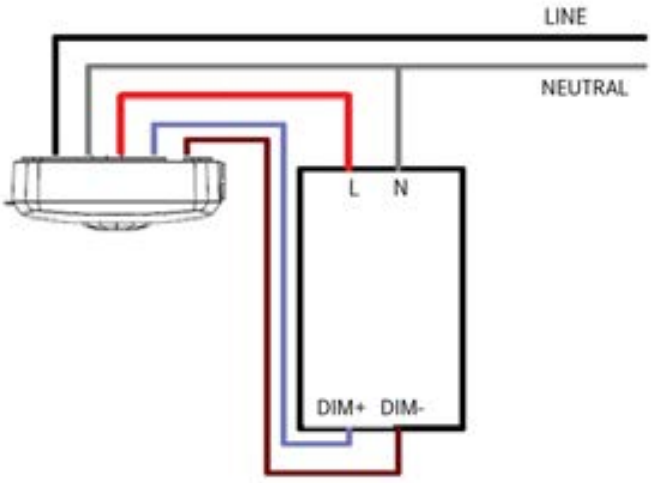
Overview

Sensor Type	PIR occupancy sensor
Input	120-277VAC
Max Load	800 VA @ 120VAC, 6.7A 1200 VA @ 208/240/277, 4.3A
0-10V Dimming	100 mA (multiple drivers)
Max Detection Area	12m mounting / 24m diameter
Time Delays (TD1/TD2)	TD1: Time to dim level: user configurable TD2: Dim-to-off: user configurable (can disable)
Photocell	Enable / disable
Operating Temperature	-20° C to 60°C
Storage Temperature	-40° C to 80°C
Relative Humidity	90-95% non-condensing at 30°C
Mountiong	Fixture Mount
Color	White

Dimensions



Wiring



How to order

Model No.	Description	Input Voltage	Output	IP Rating
PSC-BL-I-FM-110-BLE-SR	Bi-Level PIR Occupancy Sensor w/Load Switch, TruBlu™ Mesh	100-277VAC	0-10VDC(Dimming) 800VA @ 120VAC, 6.7A 1200VA @ 208/240/277VAC, 4.3A	IP20
PSC-BL-I-FM-110-BLE-CB	Bi-Level PIR Occupancy Sensor w/Load Switch, Casambi Mesh	100-277VAC	0-10VDC(Dimming) 800VA @ 120VAC, 6.7A 1200VA @ 208/240/277VAC, 4.3A	IP20

*** contact manufacturer for other options

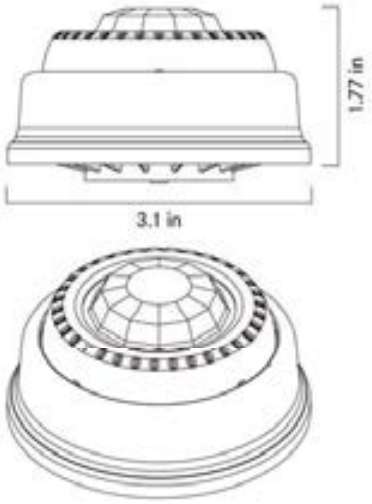
Wireless PIR Sensors

Specifications: PSC-ZA-I-100
Low-Voltage Plug-in Field-Install

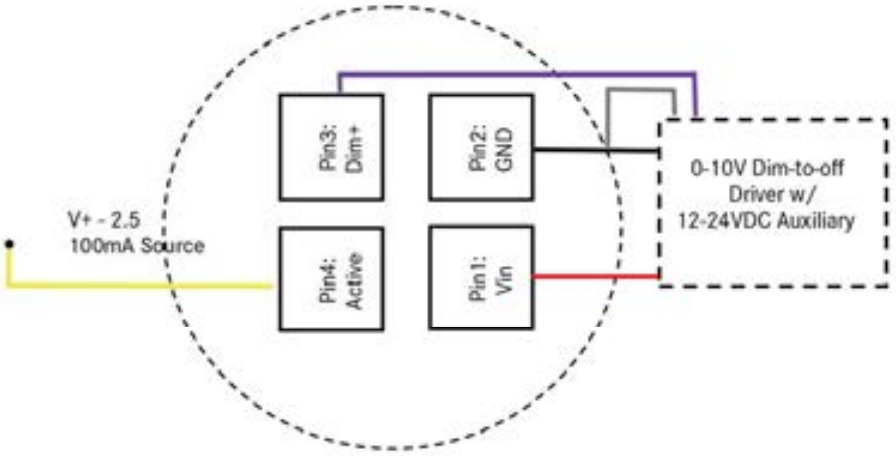
Overview

Product Type	Wireless PIR
Input	12-24 VDC
0-10V Dimming	100mA
Relay Control	Vin-2.5 V 100mA source
Max Detection Area	12m mounting / 24m Diameter
Photocell	NA
Operating Temperature	-40° C to 70°C
Storage Temperature	-40° C to 85°C
Mounting	PacWave Plug-in Compatible Receptacle
Color	Black

Dimensions



Wireless Diagram



How to order

Model No.	Description	Input Voltage	Output	IP Rating
PSC-ZA-I-100-SR	Plug-in Ready PIR Sensor, TruBlu™ Mesh	12-24VDC	Control High 0-10V Dimming	IP65
PSC-ZA-I-100-CB	Plug-in Ready PIR Sensor, Casambi Mesh	12-24VDC	Control High 0-10V Dimming	IP65

*** contact manufacturer for other options

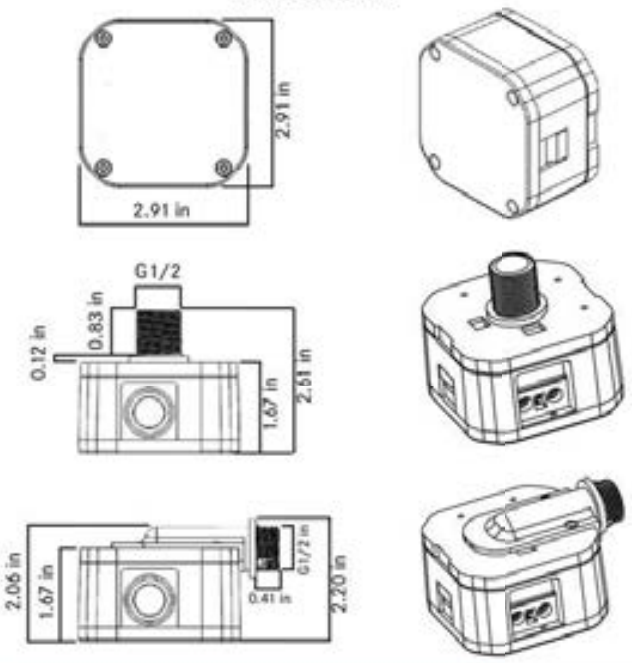
Wireless PIR Occupancy Sensor

Specifications: PSC-BL-M-FM-DC0

Overview

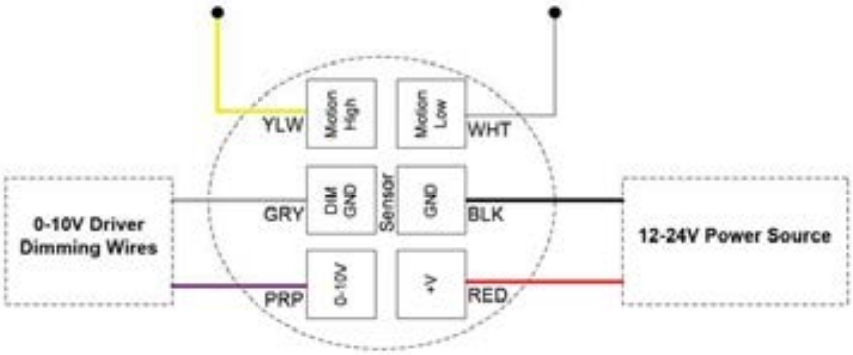
Sensor Type	Microwave 10.525 GHz
Input	12-24VDC/ 60mA Sensor(85mA w/ BLE)
0-10V Dimming	100mA (multiple drivers)
Relay Control	Vin-2.5V 100mA source
Max Detection Area	9m mounting/ 11m x 28m
Time Delays (TD1/TD2)	TD1: Time to dim level: user configurable TD2: Dim-to-off: user configurable (can disable)
Photocell	N/A
Operang Temperature	-30° C to 70°C
Storage Temperature	-40° C to 80°C
Relave Humidity	90-95% non-condensing
Mountiong	Fixture Mount
Color	White

Dimensions



Wiring

Note: if using power pack as power source, connect motion high and/or motion low, depending on power pack relay circuitry.



How to order

Model No.	Description	Input Voltage	Output	IP Rating
PSC-BL-M-FM-DC0-BLE-SR	Bi-Level Microwave Occupancy Sensor, TruBlu™ Mesh	12-24VDC	0-10VDC Control High Control Low	IP65
PSC-BL-M-FM-DC0-BLE-CB	Bi-Level Microwave Occupancy Sensor, Casambi Mesh	12-24VDC	0-10VDC Control High Control Low	IP65

*** contact manufacturer for other options

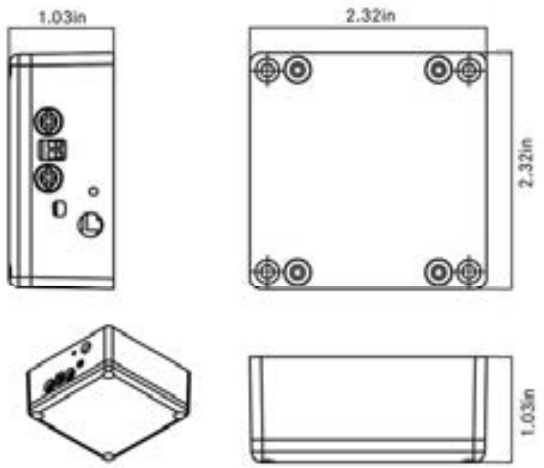
Wireless Microwave Occupancy Sensor

Specifications: PSC-BL-M-FM-DC0

Overview

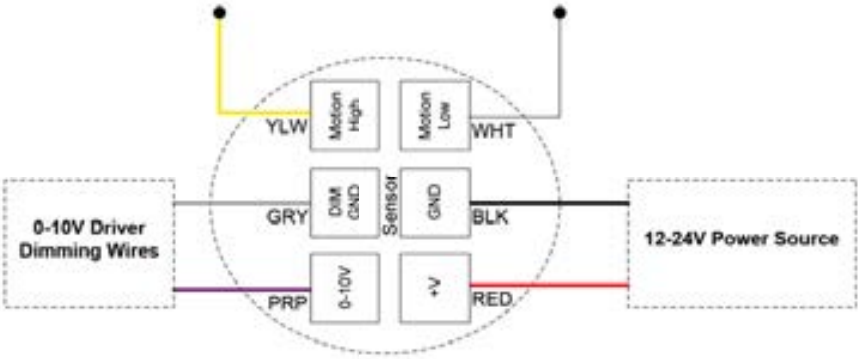
Sensor Type	Microwave 10.525 GHz
Input	12-24VDC/ 60mA sensor (85mA w/BLE)
0-10V Dimming	100mA (multiple drivers)
Relay control	Vin-2.5V 100mA source
Max Detection Area	9m mounting/ 11m x 28m
Time Delays (TD1/TD2)	TD1: Time to dim level: user configurable TD2: Dim-to-off: user configurable (can disable)
Photocell	N/A
Operang Temperature	-30° C to 70°C
Storage Temperature	-40° C to 80°C
Relave Humidity	90-95% non-condensing
Mountiong	Fixture Mount
Color	White

Dimensions



Wiring

Note: if using power pack as power source, connect motion high and/or motion low, depending on power pack relay circuitry.



How to order

Model No.	Description	Input Voltage	Output	IP Rating
PSC-BL-M-FC-DC0-BLE-SR	Bi-Level Microwave Occupancy Sensor, TrueBlu™ Mesh	12-24VDC	0-10VDC Control High Control Low	IP20
PSC-BL-M-FC-DC0-BLE-CB	Bi-Level Microwave Occupancy Sensor, Casambi Mesh	12-24VDC	0-10VDC Control High Control Low	IP20

*** contact manufacturer for other options

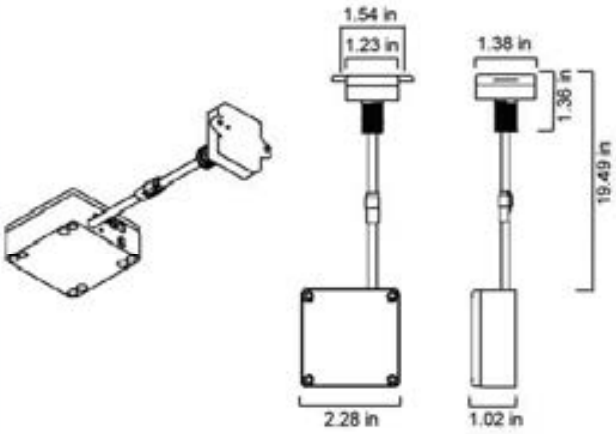
Wireless Microwave Occupancy Sensor

Specifications: PSC-BL-M-RT-DC0 (Remote Mount)

Overview

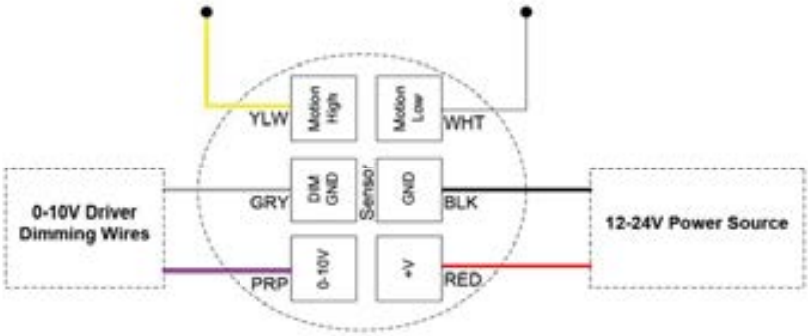
Sensor Type	Microwave 24.11 GHz
Input	12-24VDC/ 60mA Sensor (85mA w/BLE)
0-10V Dimming	100mA (multiple drivers)
Relay Control	Vin-2.5V 100mA source
Max Detection Area	3m mounting/ 10m diameter
Time Delays (TD1/TD2)	TD1: Time to dim level: user configurable TD2: Dim-to-off: user configurable (can disable)
Photocell	Enable/disable
Operating Temperature	-30° C to 70°C
Storage Temperature	-40° C to 80°C
Relative Humidity	90-95% non-condensing at 30°C
Mountiong	Fixture Mount
Color	White

Dimensions



Wiring

Note: if using power pack as power source, connect motion high and/or motion low, depending on power pack relay circuitry.



How to order

Model No.	Description	Input Voltage	Output	IP Rating
PSC-BL-M-RT-DC0-BLE-SR	Bi-Level Microwave Remote Mount Occupancy Sensor, TruBlu™ Mesh	12-24VDC	0-10VDC Control High Control Low	IP20
PSC-BL-M-RT-DC0-BLE-CB	Bi-Level Microwave Remote Mount Occupancy Sensor, Casambi Mesh	12-24VDC	0-10VDC Control High Control Low	IP20

*** contact manufacturer for other options

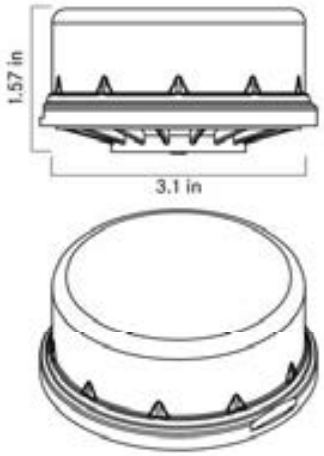
Wireless Microwave Occupancy Sensor

Specifications: PSC-ZA-M-100
Low-Voltage Plug-in Field-Install

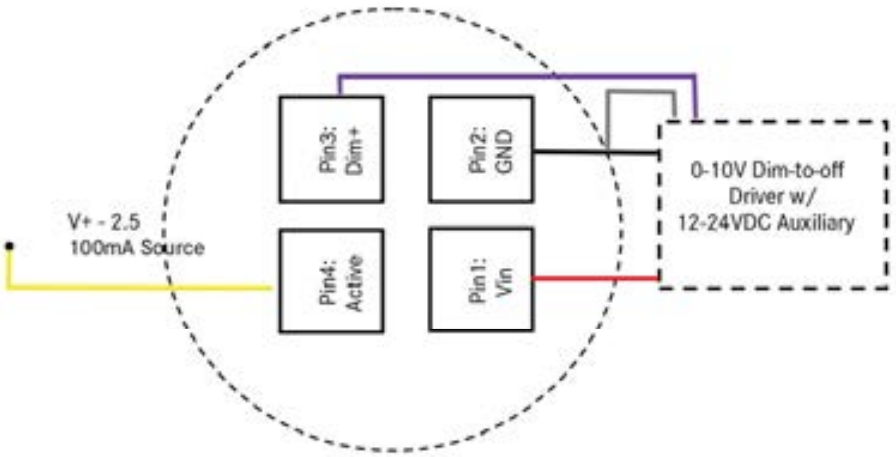
Overview

Product Type	Wireless Microwave
Input	12-24 VDC
0-10V Dimming	100mA
Relay Control	Vin-2.5 V 100mA source
Max Detection Area	9m mounting / 11m x 28m
Photocell	Enabled
Operating Temperature	-40° C to 70°C
Storage Temperature	-40° C to 85°C
Mounting	PacWave Plug-in Compatible Receptacle
Color	Black

Dimensions



Wireless Diagram



How to order

Model No.	Description	Input Voltage	Output	IP Rating
PSC-ZA-M-100-SR	Plug-in Ready Microwave Sensor, TruBlu™ Mesh	12-24VDC	Control High 0-10V Dimming	IP65
PSC-ZA-M-100-CB	Plug-in Ready Microwave Sensor, Casambi Mesh	12-24VDC	Control High 0-10V Dimming	IP65

*** contact manufacturer for other options

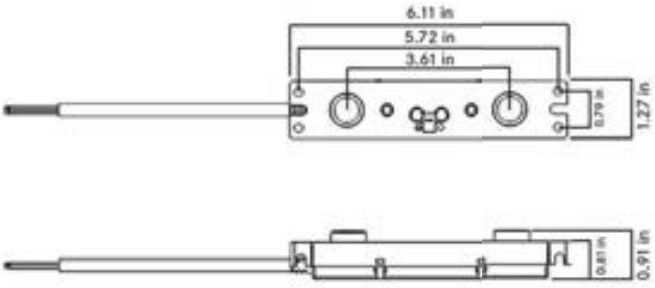
Wireless Ultrasonic Occupancy Sensor

Specifications: PSC-BL-U-FM-DC0

Overview

Sensor Type	Ultrasonic 40KHz ± 1kHz.
Input	12-24VDC/45mA sensor (70 mA w/BLE)
0-10V Dimming	100mA (multiple drivers)
Relay Control	Vin-2.5V 100mA source
Max Detection Area	3m mounting/7m x 8m
Time Delays (TD1/TD2)	TD1: Time to dim level: user configurable TD2: Dim-to-off: user configurable (can disable)
Photocell	Enable/disable
Operating Temperature	-30° C to 70°C
Storage Temperature	-40° C to 80°C
Relative Humidity	90-95% non-condensing
Mountiong	Fixture Mount
Color	White

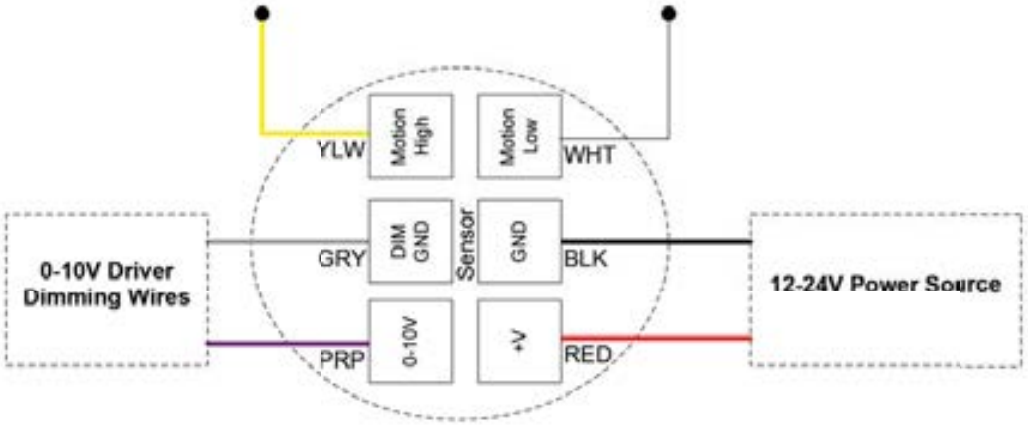
Dimensions



Case length without foot bracket: 5.17 in

Wiring

Note: if using power pack as power source, connect motion high and/or motion low, depending on power pack relay circuitry.



How to order

Model No.	Description	Input Voltage	Output	IP Rating
PSC-BL-U-FM-DC0-BLE-SR	Bi-Level Ultrasonic Occupancy Sensor, TruBlu™ Mesh	12-24VDC	0-10VDC Control High Control Low	IP20
PSC-BL-U-FM-DC0-BLE-CB	Bi-Level Ultrasonic Occupancy Sensor, Casambi Mesh	12-24VDC	0-10VDC Control High Control Low	IP20

*** contact manufacturer for other options

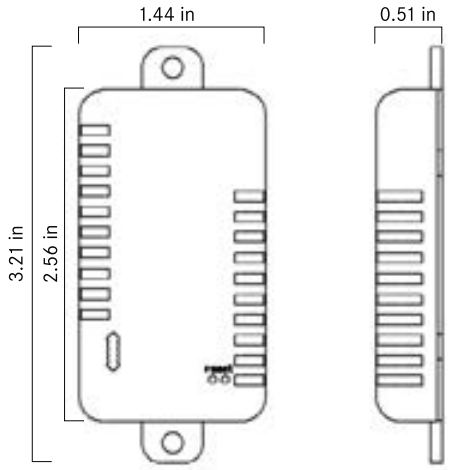
Wireless Fixture Control Module

Specifications: PSC-WCM-50/60-DC0

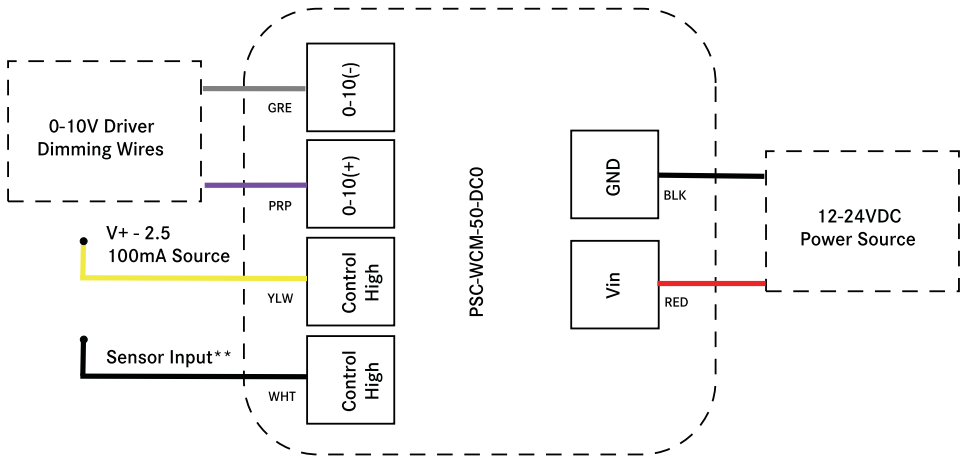
Overview

Product Type	Wireless BLE Fixture Controller
Input Voltage	12-24 VDC
0-10V Dimming	100 mA Max
Relay Control	Vin-2.5 V 100 mA source
Sensor Input	12VDC Input
Operating Temperature	-30° C to 70°C
Storage Temperature	-40° C to 90°C
Relative Humidity	90-95% non-condensing at 30°C
Mounting	Fixture Mount
Color	White

Dimensions



Wireless Diagram



**PSC-WCM-60-DC0 is identical to PSC-WCM-50-DC0, except PSC-WCM-60-DC0 does not come with lead (Input: Control High for Sensor Input)

How to order

Model No.	Description	Input Voltage	Output	Input
PSC-WCM-50-DC0-BLE-SR***	Wireless Fixture Controller Module, TruBlu™ Mesh	12-24VDC	0-10 VDC; Control High	Sensor Input
PSC-WCM-60-DC0-BLE-CB***	Wireless Fixture Controller Module, Casambi Mesh	12-24VDC	0-10 VDC; Control High	

*** contact manufacturer for other options

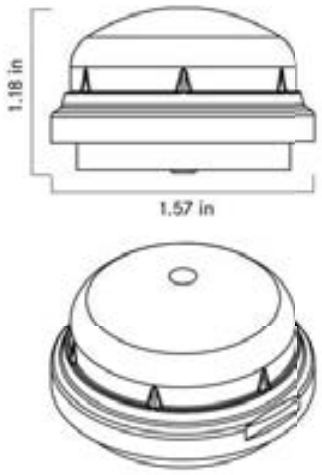
Wireless Fixture Control Module

Specifications: PSC-ZA-100/110
Low-Voltage Plug-in Field-Install

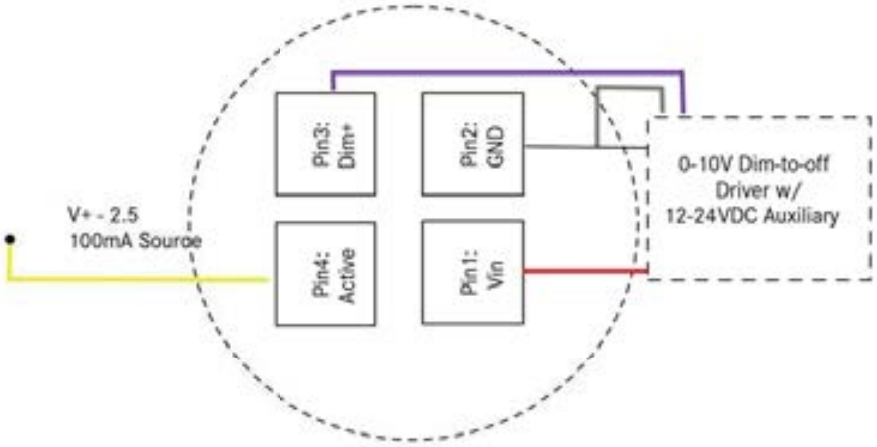
Overview

Product Type	Wireless Fixture Controller
Input Voltage	12-24 VDC
0-10V Dimming	100 mA Max
Relay Control	Vin-2.5 V 100mA source
Photocell	NA (PSC-ZA-100)
	Enabled (PSC-ZA-110)
Operating Temperature	-40° C to 85°C
Storage Temperature	-40° C to 85°C
Mounting	PacWave Plug-in Compatible Receptacle
Color	Black

Dimensions



Wireless Diagram



How to order

Model No.	Description	Input Voltage	Output	IP Rating
PSC-ZA-100-SR*	Plug-in Ready Fixture Controller Module, TruBlu™ Mesh	12-24VDC	Control High 0-10V Dimming	IP65
PSC-ZA-110-SR*	Plug-in Ready Fixture Controller Module, W/Light Sensing, TruBlu™ Mesh	12-24VDC	Control High 0-10V Dimming	IP65
PSC-ZA-100-CB*	Plug-in Ready Fixture Controller Module, Casambi Mesh	12-24VDC	Control High 0-10V Dimming	IP65
PSC-ZA-110-CB*	Plug-in Ready Fixture Controller Module W/Light Sensing, Casambi Mesh	12-24VDC	Control High 0-10V Dimming	IP65

*** contact manufacturer for other options

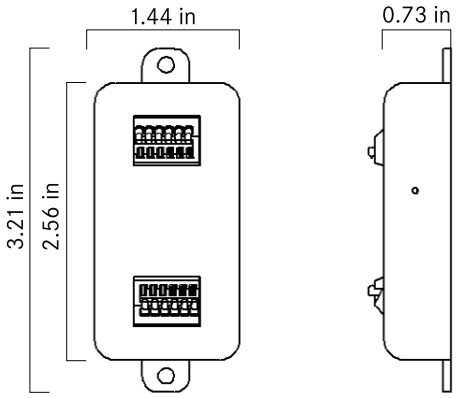
Wireless Fixture Control Module

Specifications: PSC-WCM-100/200-DCO (-EC)(-BLE)(-XX)

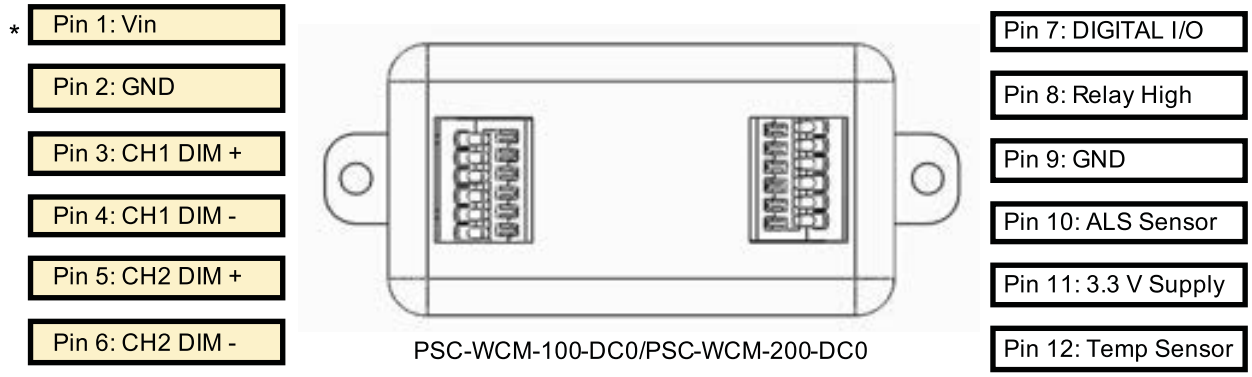
Overview

Product Type	Wireless BLE Dual Fixture Controller
Input Voltage	12-48 VDC
0-10V Dimming (x2)	100 mA Max
Relay Control	Vin-2.5 V 100 mA source (PSC-WCM-X00)
Aux.Power Supply	3.3V DC (PSC-WCM-X00)
Digital I/O	0 / 3.3 V DC (PSC-WCM-X00)
Operating Temperature	-30° C to 70°C
Storage Temperature	-40° C to 90°C
Relative Humidity	90-95% non-condensing at 30°C
Color	White

Dimensions



Wiring



PSC-WCM-100-DC0/PSC-WCM-200-DC0

* PSC-WCM-100-DCO-EC/PSC-WCM-200-DCO-EC only come with Pin 1 to Pin 6 for two 0-10 dimming controls only

How to Order

Model No.	Description	Input Voltage	Output	Input
PSC-WCM-200-DCO-BLE-SR	HV Wireless Fixture Controller Module, TruBlu™ Mesh	18-48 VDC	0-10 VDC x2; Control High	Temp-sensor; Light Sensor
PSC-WCM-200-EC–DCO-BLE-SR	HV Wireless Fixture Controller Module, TruBlu™ Mesh	18-48 VDC	0-10 VDC x2	
PSC-WCM-100-DCO-BLE-SR	Wireless Fixture Controller Module, TruBlu™ Mesh	12-24 VDC	0-10 VDC x2; Control High	Temp-sensor; Light Sensor
PSC-WCM-100-EC-DCO-BLE-SR	Wireless Fixture Controller Module, TruBlu™ Mesh	12-24 VDC	0-10 VDC x2	
PSC-WCM-200-BLE-CB	HV Wireless Fixture Controller Module. Casambi Mesh	18-48 VDC	0-10 VDC x2; Control High	Temp-sensor; Light Sensor
PSC-WCM-200-EC-BLE-CB	HV Wireless Fixture Controller Module, Casambi Mesh	18-48 VDC	0-10 VDC x2	
PSC-WCM-100-BLE-CB	Wireless Fixture Controller Module, Casambi Mesh	12-24 VDC	0-10 VDC x2; Control High	Temp-sensor; Light Sensor
PSC-WCM-100-EC-BLE-CB	Wireless Fixture Controller Module, Casambi Mesh	12-24 VDC	0-10 VDC x2	

*** contact manufacturer for other options

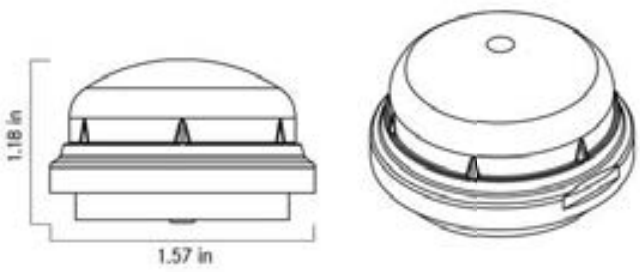
Wireless Fixture Control Module

Specifications: PSC-ZA-200/210 Dual Dimming Low-Voltage Plug-in Field-Install

Overview

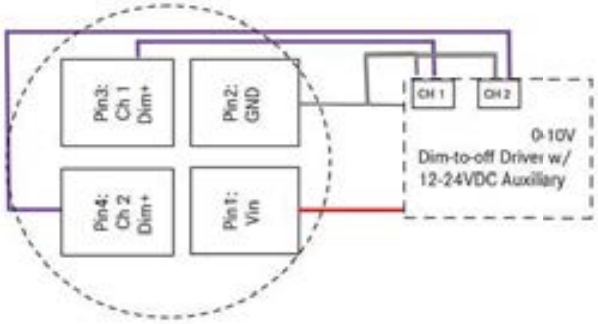
Product Type	Wireless Dual Fixture Controller
Input Voltage	12-24 VDC
0-10V Dimming (x2)	100 mA Max
Photocell	NA (PSC-ZA-200)
	Enabled (PSC-ZA-210)
Operating Temperature	-40° C to 85°C
Storage Temperature	-40° C to 85°C
Mounting	PacWave Plug-in Compatible Receptacle
Color	Black

Dimensions

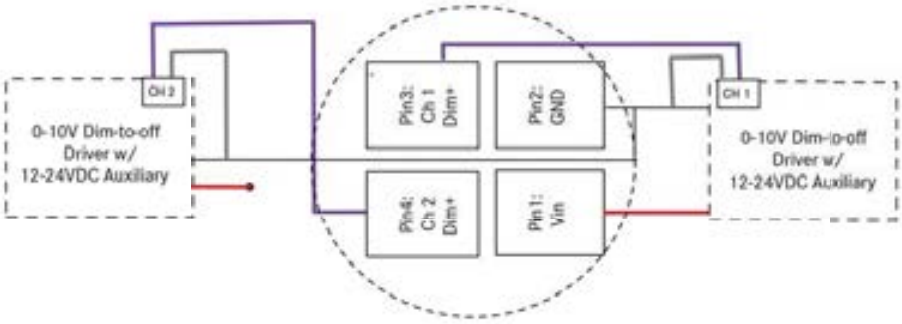


Wireless Diagram

One Driver w/ two 0-10V Dimming Channels



Two Driver w/ 0-10V Dimming Channels



How to order

Model No.	Description	Input Voltage	Output	IP Rating
PSC-ZA-200-SR	Bluetooth® Mesh Fixture Controller Module w/ 2 channels of 0-10V Dimming, TruBlu™ Mesh	12-24VDC	0-10V Dimming x 2	IP65
PSC-ZA-210-SR	Bluetooth® Mesh Fixture Controller Module w/ 2 channels of 0-10V Dimming and Light Sensing, TruBlu™ Mesh	12-24VDC	0-10V Dimming x 2	IP65
PSC-ZA-200-CB	Bluetooth® Mesh Fixture Controller Module w/ 2 channels of 0-10V Dimming, Casambi Mesh	12-24VDC	0-10V Dimming x 2	IP65
PSC-ZA-210-CB	Bluetooth® Mesh Fixture Controller Module w/ 2 channels of 0-10V Dimming and Light Sensing, Casambi Mesh	12-24VDC	0-10V Dimming x 2	IP65

*** contact manufacturer for other options

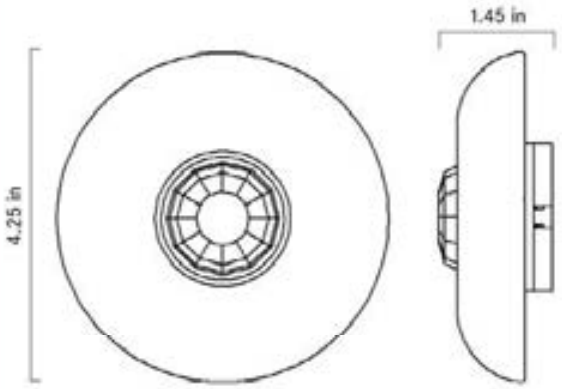
Wireless Ceiling Mount Occupancy Sensor

Specifications: PSC-ND-I-CM-DC-BLE

Overview

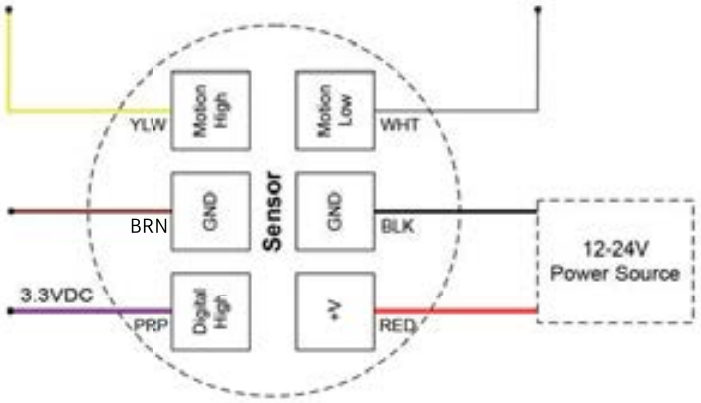
Sensor Type	PIR occupancy sensor
Input	12-24VDC | 25mA sensor (50mA w/BLE)
Relay Control	Vin-2.5V 100mA source
Digital High	3.3V DC
Max Detection Area	3.6m mounting / 24.4 Diameter
Time Delay	User configurable
Photocell Sensitivity	NA
Operating Temperature	-30° C to 70°C
Storage Temperature	-40° C to 80°C
Relative Humidity	90-95% non-condensing at 30°C
Mounting	Ceiling Mount
Color	White

Dimensions



Wireless Diagram

Note: if using power pack as power source, connect motion high and / or motion low, depending on power pack relay circuitry.



How to order

Model No.	Description	Input Voltage	Output	IP Rating
PSC-ND-I-CM-DC-BLE-SR	Ceiling Mount PIR Occupancy Sensor, TruBlu™ Mesh	12-24VDC	Control High Control Low Digital High	IP20
PSC-ND-I-CM-DC-BLE-CB	Ceiling Mount PIR Occupancy Sensor, Casambi Mesh	12-24VDC	Control High Control Low Digital High	IP20

*** contact manufacturer for other options

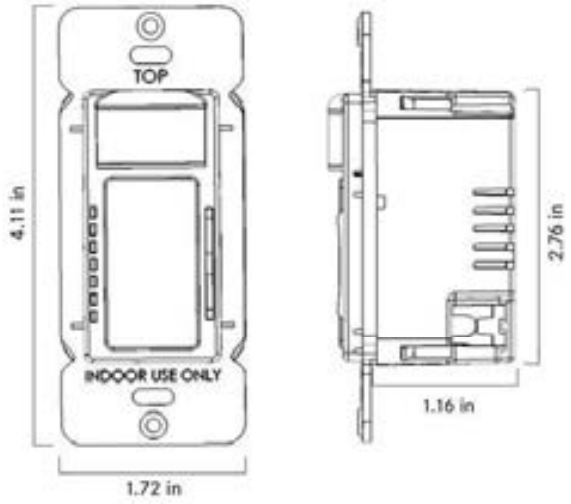
Wireless PIR Wall Switch Occupancy Sensors

Specifications: PSC-DM-I-WS-100-BLE

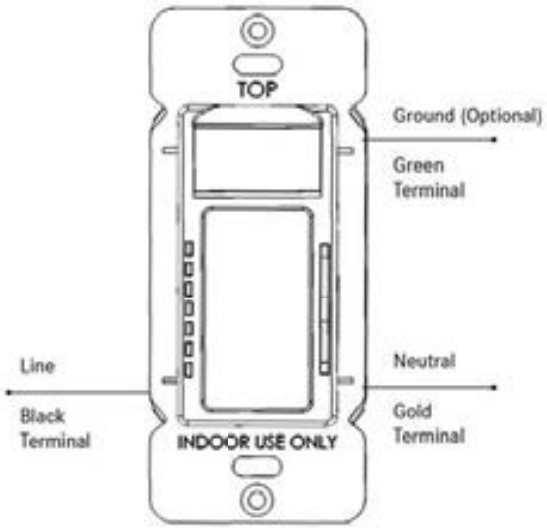
Overview

Sensor Type	PIR occupancy sensor
Input Voltage	120-277 VAC, 50/60Hz
Max Detection Area	1.1m mounting / 14.6m x 11m
Time Delay	Varies
Photocell Sensitivity	NA
Operating Temperature	0° to 55°C
Storage Temperature	-10° to 60°C
Relative Humidity	95% non-condensing
Mounting	Standard wall box
Color	White

Dimensions



Wireless



How to order

Model No.	Description	Input Voltage
PSC-DM-I-WS-100-BLE-SR	Bluetooth wall switch PIR occupancy sensor, TruBlu™ Mesh	120-277 VAC, 60Hz
PSC-DM-I-WS-100-BLE-CB	Bluetooth wall switch PIR occupancy sensor, Casambi Mesh	120-277 VAC, 60Hz

*** contact manufacturer for other options

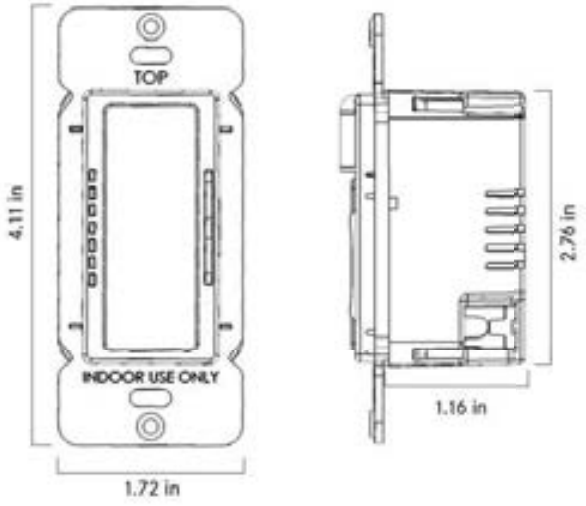
Wireless Dimmer Wall Switch

Specifications: PSC-DM-I-WS-100-BLE

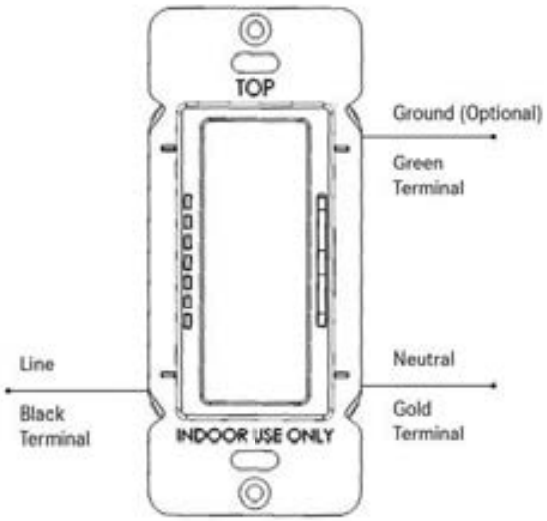
Overview

Sensor Type	Dimmer Wall Switch
Input Voltage	120-277 VAC, 50/60Hz
Time Delay	Varies
Photocell Sensitivity	NA
Operating Temperature	0° to 55°C
Storage Temperature	-10° to 60°C
Relative Humidity	95% non-condensing
Mounting	Standard wall box
Color	White

Dimensions



Wireless Diagram



How to order

Model No.	Description	Input Voltage
PSC-DM-WS-100-BLE-SR	Wireless dimmer wall switch, TruBlu™ Mesh	120-277 VAC, 60Hz
PSC-DM-WS-100-BLE-CB	Wireless dimmer wall switch, Casambi Mesh	120-277 VAC, 60Hz

*** contact manufacturer for other options

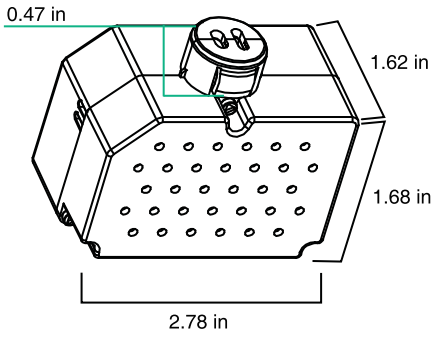
Power Pack

Specifications: PSC-AC-PP-100 (Junction Mount, with Relay)

Overview

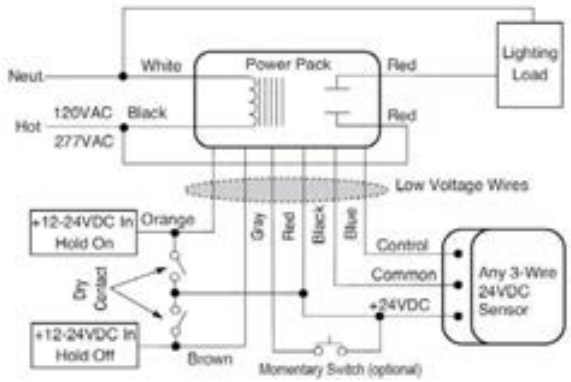
Product Type	Class 2 output power supply
Input Voltage	120-277VAC, 50/60Hz
Output	24VDC, 150mA (w/ relay connected)
Max Load (Ballast)	20A @ 120-277VAC
Max Load (Incandescent)	20A @ 120VAC
Max Load (motor)	1hp @ 120/240VAC
Max No. of Sensors	Controls up to 6 sensors in parallel
Operating Temperature	0° to 55°C
Storage Temperature	-10° to 60°C
Relative Humidity	95% non-condensing
Mounting	Fixture or J-box mount, 0.5 inch knockout
Color	White
Certifications	UL 244A Plenum rated
	UL 94V-0 case
	UL/cUL listed: E341446

Dimensions

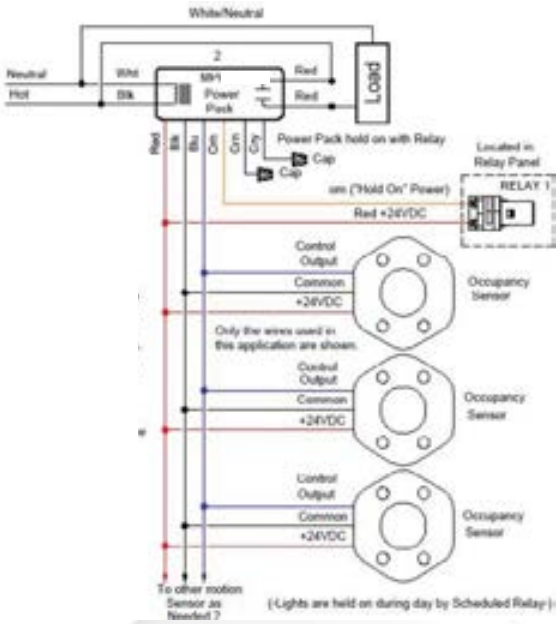


WT: 4.3 oz

Wiring PSC-AC-PP-100 (single load)



Wiring PSC-AC-PP-100 (multiple loads with relay)



How to order

Model No.	Description	Input Voltage	Output
PSC-AC-PP-100	Low Voltage Power Pack	100-277VAC	24VDC

*** contact manufacturer for other options

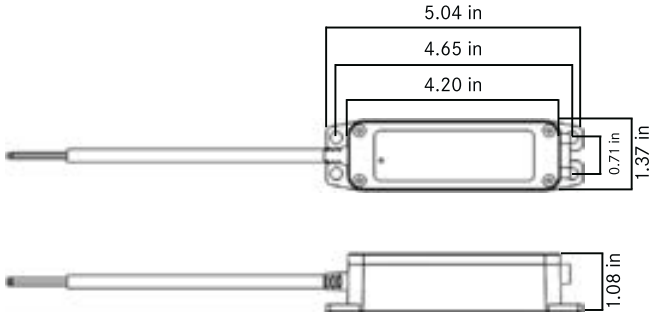
Power Pack

Specifications: PSC-AC-PP-200 (Fixture Mount Dimming, with Relay)

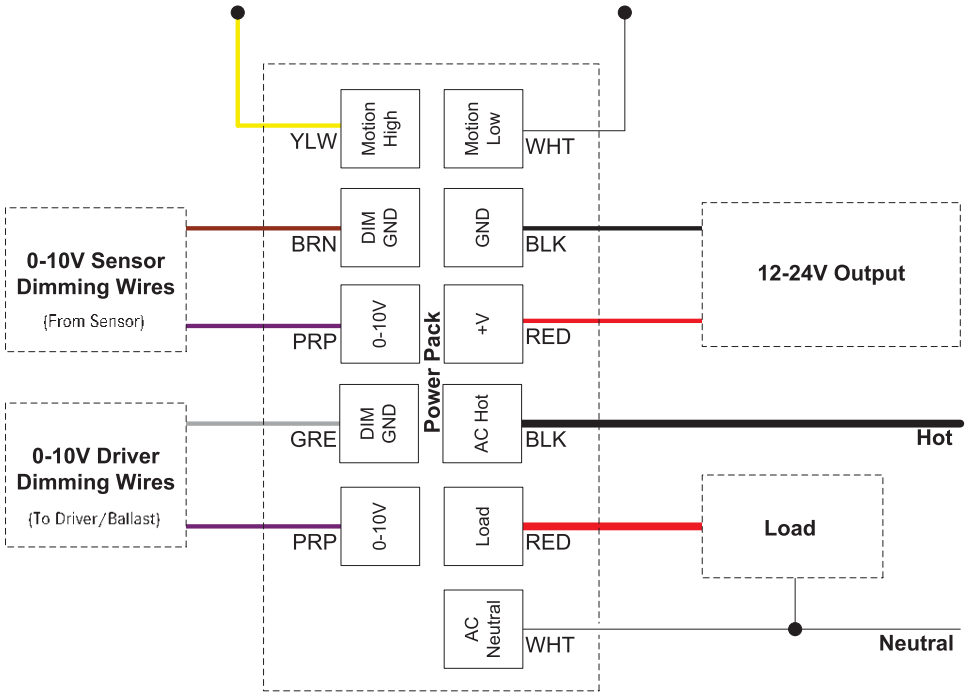
Overview

Product Type	Low Voltage Power Pack
Input Voltage	120-277VAC
Output Voltage	12.4VDC
Max Load	10A load @250V(PSC-AC-PP-200) N/A(PSC-AC-PP-300)
Operating Temperature	-30° C to 70°C
Storage Temperature	-40° C to 80°C
Relative Humidity	90-95% non-condensing
Mounting	Fixture Mount
Color	White

Dimensions



Wiring



How to order

Model No.	Description	Input Voltage	Output
PSC-AC-PP-200/C	Dimming Power Pack for Fixture Mount with Connector	100-277VAC	12.5VDC
PSC-AC-PP-200*	Dimming Power Pack for Fixture Mount	100-277VAC	12.5VDC

*** contact manufacturer for other options

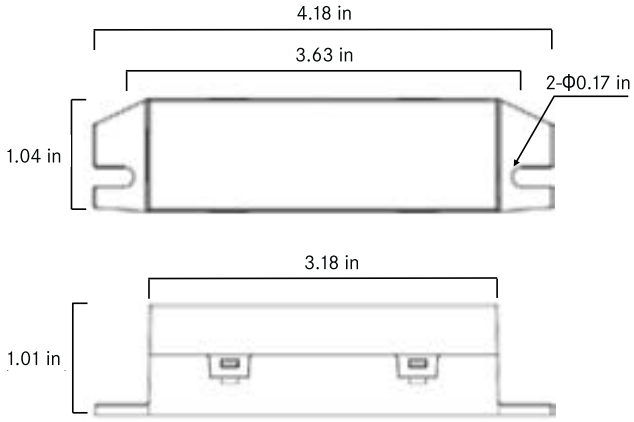
Power Pack

PSC-AC-PP-700C (Fixture Mount, with Relay)

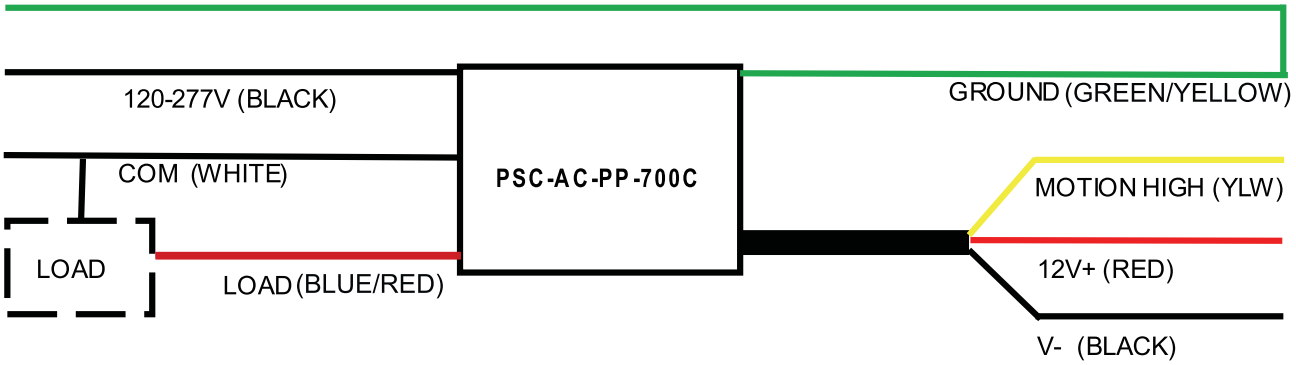
Overview

Product Type	Low Voltage Power Pack
Input Voltage	120-277VAC, 50/60Hz
Output Voltage	12VDC, 0~100mA
Max Load	10A @ 250V
Operating Temperature	-40° C to 80°C
Storage Temperature	-40° C to 80°C
Relative Humidity	10-95% non-condensing
Mounting	Fixture Mount
Color	Black

Dimensions



Wiring



How to order

Model No.	Description	Input Voltage	Output
PSC-AC-PP-700C	Low Voltage Power Supply for Fixture Mount w/ Relay	100-277VAC	12VDC

*** contact manufacturer for other options

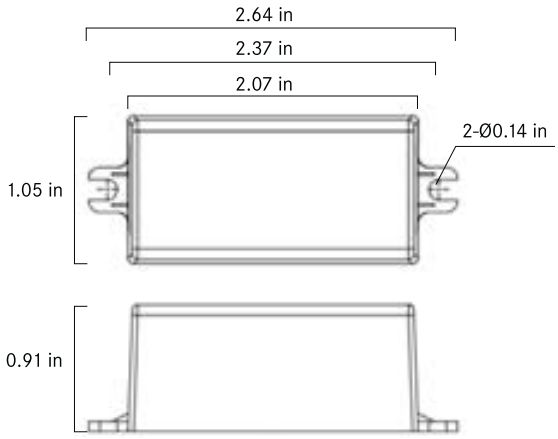
Power Pack

PSC-AC-PP-400 (Fixture Mount, No Relay)

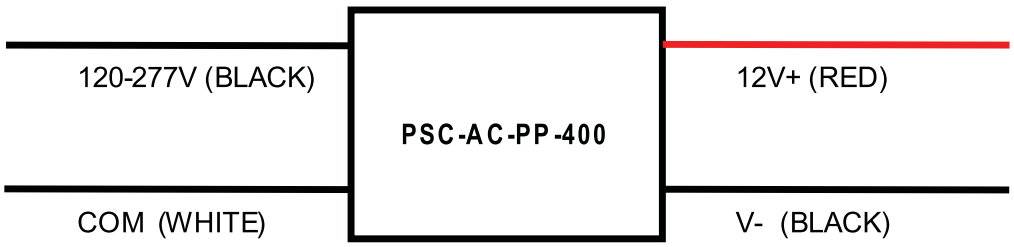
Overview

Product Type	Low Voltage Power Supply
Input	120-277VAC, 50/60Hz
Output	12VDC, 0~250mA
Max Case Temp Tc	90°C
Storage Temperature	-40° C to 80°C
Relative Humidity	10-95% non-condensing
Mounting	Fixture Mount
Color	White

Dimensions



Wiring



How to order

Model No.	Description	Input Voltage	Output
PSC-AC-PP-400	Low Voltage Power Supply for Fixture Mount	100-277VAC	12VDC

*** contact manufacturer for other options

McWONG

Sensors & Controls

LED Drivers / Modules

LED Emergency Drivers

Surge Protectors

Stepdown Transformers

HID Ballasts/Lamps

Limited Warranty – Sensors & Controls

McWong International, Inc. (hereafter referred to as "MCWONG"), corporate headquarters located at 1921 Arena Blvd., Sacramento, CA 95834, warrants its products to be free from defects in materials and workmanship from the date of manufacture for the following time periods:

Product Series	Warranty
Bi-level Dimming Occupancy Sensors	60 months
High Bay PIR Occupancy Sensors	60 months
Microwave Occupancy Sensors	60 months
Ceiling Mount Occupancy Sensors	60 months
Wall Switch Occupancy Sensors	60 months

MCWONG cannot assume any obligations or liabilities for consequential or incidental damages arising from, or in connection with, the use or performance of its products or other indirect damages with respect to loss of property, revenue or profit, or cost of removal, installation or reinstallation.

This limited warranty is not applicable to any product subjected to abnormal stress, such as improper storage, installation, use and/or maintenance. This warranty is invalid for any product not installed and operated in accordance with all relevant federal, state, and local government regulations, established industry safety standards, published electrical and temperature ratings, and any specific instructions provided by MCWONG for the installation of the product(s).

This limited warranty is extended by MCWONG only to the original or first end-user purchaser.

The standards and conditions of any tests performed on any MCWONG product(s) by the original purchaser, or by any third party acting on behalf of the original purchaser, shall be mutually agreed upon in writing and MCWONG shall be notified of, and may be represented at any such tests.

Should defects occur after installation, and within the warranty period, they should be specifically described to a MCWONG representative. MCWONG shall correct any defects, at MCWONG's option, by furnishing materials to repair or replace any product(s) that may prove defective in materials or workmanship within the warranty period, or by extending a credit in the amount of the purchase price. This does not apply to: (1) damage caused by accident, abuse, mishandling, or dropping; (2) materials which have been subject to unauthorized repair; (3) materials not used in accordance with instructions; (4) ordinary wear and tear. MCWONG will be limited to the furnishing of new parts, free of charge, or extending credit for in the amount of the purchase price, in exchange for parts proven to be defective and does not include any other costs of removal or installation.

This limited warranty constitutes the sole and exclusive remedy of the purchase and the exclusive liability of MCWONG, and is in lieu of any and all other warranties, expressed, implied, or statutory as to merchantability, fitness for purpose sold, description, quality productiveness, or any other matter. NO IMPLIED STATUTORY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL APPLY BEYOND THE AFOREMENTIONED WARRANTY PERIOD.

Warranty claims can be submitted by calling our toll free technical support hotline (888) 600-9188 or by visiting our website www.McWonginc.com and filling out a Warranty Replacement Form (Click on Support >> Warranty Statements). Completed forms should be faxed to (916) 371-6666 or emailed to Support@McWonginc.com.

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