PSC-WCM-100/200 (-BLE-SR) | Wireless Fixture Control Module

Overview

- 2 Channels of 0-10 Dimming
- Active High output for Relay drive
- Ambient Light Sensor Input
- Internal Temperature Sensing
- External Temperature Sensor Input
- Bluetooth add-on enables wireless control with greater customization of dimming levels, and sensor control.
- 48V Supply selectable

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Applications

ATG's Wireless Control System incorporates the McWong PacWave™ Wireless Fixture Controller allows for two channels of 0-10 dimming, tem-perature monitoring, ambient light monitoring, active high relay control, and has a general purpose I/O. This unit is controlled wirelessly via the PacWave™ Bluetooth® Smart module allowing for wireless dimming of LED lighting. The small physical size allows for this unit to be place within the fixture. Alternate input voltages are available for voltages rated 18-48V.

Wireless Control Operation

End users can program dimming levels, color temperature(two color white), temperature settings, and external ambient light sensor settings.

2 Channel Dimming: allows for two 0-10 dimming channels for driver control. The controller allows for color temperature mixing of the two color white using PacWave™ Bluetooth® Smart module paired with Android or iOS application.

Relay Control: High control output can be used to trigger relays or other control circuitry.

Temperature Sensor: Allows temperature set point for ambient air temperature for both inside the controller case, or externally connected. Set point can engage 0-10 dimming to decrease temperature over a length of time.

External Light Sensor: Allows user to set a Lux value point to control dimming of the lighting.

Accessories

Power Pack: The PSC-WCM-100/200-DC0 operates on 12-24VDC/18-48VDC input and requires a separate power pack such as the PacWave™ PSC-AC-PP-200/300/400.

This power pack incorporates a high current relay and a high voltage transformer which can accept universal input (100-305VAC).

Alternatively, the sensor can also operate with a driver that has an auxiliary output (12V) or high voltage 18-48 VDC.

External Temperature Sensor
External Ambient Light Sensor

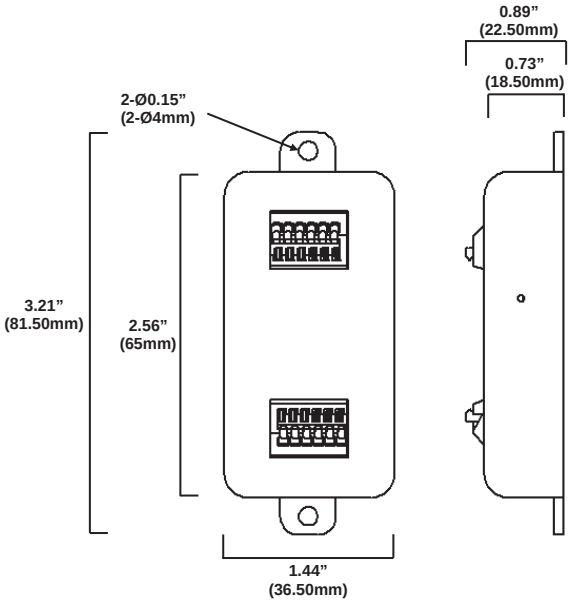
How to Order

Model No.	Description	Input Voltage	Output	Input
PSC-WCM-200-BLE-SR	HV Wireless Fixture Controller Module	18-48 VDC	0-10 VDC x2 Control High	Temp-sensor Light Sensor
PSC-WCM-100-BLE-SR	Wireless Fixture Controller Module	12-24 VDC	0-10 VDC x2 Control High	Temp-sensor Light Sensor
PSC-AC-PP-200	Dimming Power Pack for Fixture Mount	100-277VAC	12.5VDC	
PSC-AC-PP-700C	Power Pack for Fixture Mount	100-277VAC	12.5VDC	
PSC-AC-PP-400	Power Pack for Fixture Mount no Relay	100-277VAC	12.5VDC	

Summary	
Product Type	Wireless BLE Fixture Controller
Input Voltage for PSC-WCM-100-BLE Input Voltage for PSC-WCM-200-BLE	12-24VDC 18-48 VDC
Max Bluetooth Range*	49 ~ 65ft (15 ~ 20m)
Relay Control	12 VDC
Operating Temperature	-30° C to 70°C
Storage Temperature	-40° C to 80°C
Relative Humidity	90-95% non-condensing at 30°C
Mounting	Fixture or ceiling mount
Color	White
Warranty	5 Years

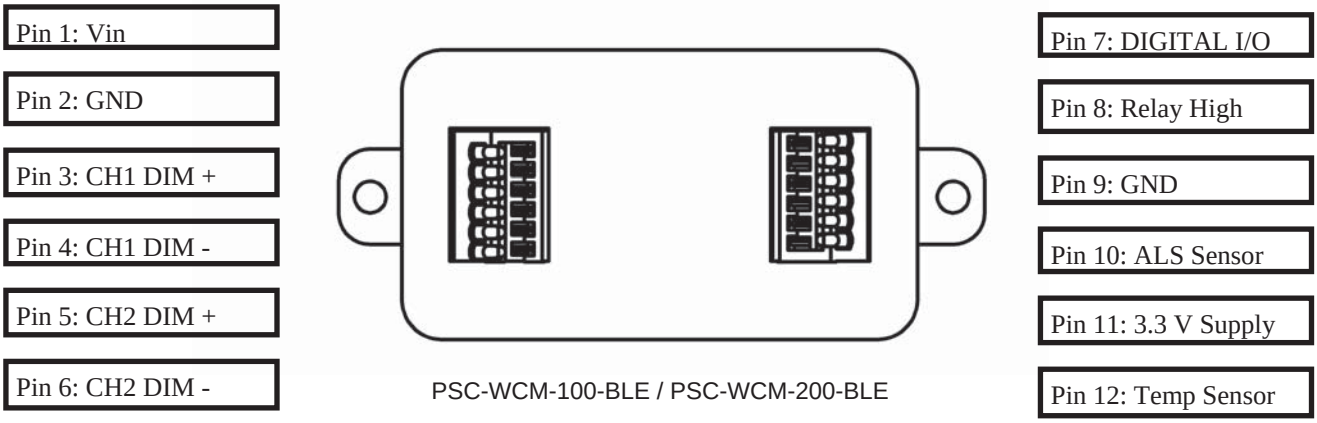
*Bluetooth Range is highly dependent on the integration of fixtures, surrounding environment and conditions. It is recommended to conduct testing for range accuracy.

Physical Dimensions



Drawings are Not to Scale

Wiring Diagram



PSC-WCM-100-BLE / PSC-WCM-200-BLE

Wireless Controller Block Diagram: