



# CTBRCB03JM03-PC

SPECIFICATION INSTRUCTIONS



## Lighting Controller

- Output Wattage: 600W Max.
- Universal Voltage (120-277VAC)
- 0-10V Luminaire
- 1/2" Knockout Mount
- IP66
- FCC ID : 2AJ9LCTRCB03JM0XXXX

### General Specifications

Input Voltage / Frequency	120 - 277VAC (+/- 10%), 50-60Hz
Input Current	5A Max.
Input Power	600W Max.
Standby Power	<1W
Maximum Load	Max 600W @ 120 - 277VAC
Input/Output Wires	Input Power (Line Voltage Input): BLACK (L), WHITE (N) Load Power (Line Voltage Output): RED / BLACK (L1), WHITE (N) 0-10V Output Control: PURPLE (+), GREY (-) 0-10V Output Control: ORANGE (+), GRAY (-) SensorInput: RJ12 Cable
RFI / EMI	FCC PART 15A NONCONSUMER, EN 55015
Potting / Degree of Fill	YES / FULL
Dimming Controller Type	Bluetooth mesh (SIG Compliant Declaration ID: D043332)
0-10Vdc Type / Channels	Current Sink - 10mA, Current Source - 10mA / Single Channel 0-10V Output
RF Communication Type	2.4GHz Bluetooth Mesh
Transmission Range	160ft. (50m)
Ambient Operating Temperature Range	-40°C to 60°C (-40°F to 140°F)
Maximum Driver Case Temperature (Tc) (Per UL)	85°C (185°F)
Input Surge Protection	Line-Nuetral 6kv
Mounting Type	Electrical Junction Box or Fixture with 1/2" Knockout / 0.875" (22mm)
Overall Size	5.17" L x 2.26" W x 1.29" H (131.5mm L x 57.6mm W x 33mm H)
Protections	Input Current Protection Output Short Circuit Protection Output Open Circuit Protection Overload Protection
Weight	360g / 0.79lbs.
Sound Rating	A
Service Life	50,000 hours lifetime @Tc 60°C (140°F)
Warranty	5 years @ Tc 60°C (140°F)



Fulham EliteBlue



Fulham's EliteBlue commissioning app can be found on the Apple app store by searching "EliteBlue".  
For web app, please visit <https://eliteblue.fulham.com>  
Complete commissioning manual can be found at:  
<https://www.fulham.com/PDFs/eliteBlue-commissioning-manual.pdf>



# CTBRCB03JM03-PC

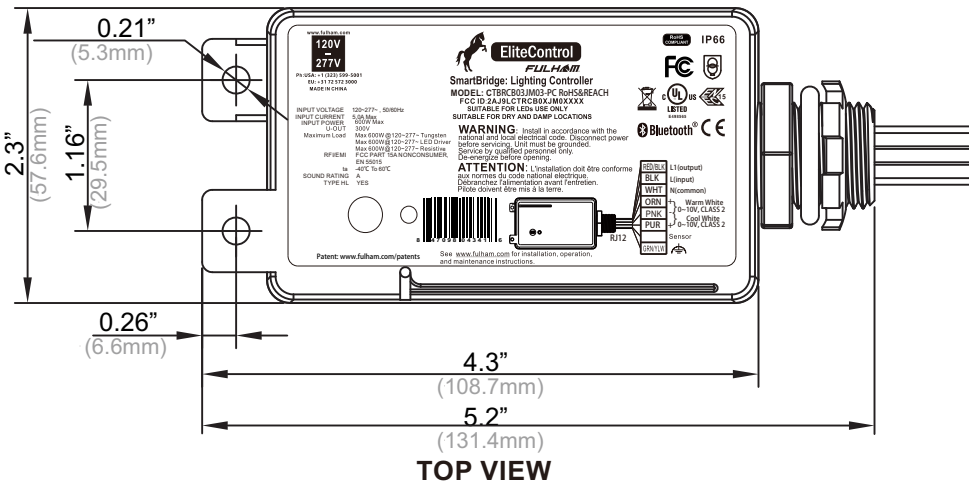
SPECIFICATION INSTRUCTIONS



## Power Metering Accuracy

Category	Parameters	Unit (range)	Resolution/ Accuracy Deviation (%)	Data erasable
Power Metering- Grid Side	Maximum AC Mains Voltage	V (108-305V)	2%	Y
	AC Mains Voltage	V (108-305V)	2%	/
	AC Mains Current	mA (80-5000) mA	2%	/
	Frequency	Hz (50 - 60)	2%	/
	Power Factor	(0 - 1) step 0.01	2%	/
	Input Power	W (10-600)	2%	/
	Apparent Power	W (10-600)	4%	/
	Lifetime Input Energy	Wh (0 - 429496729.3)	2%	N
	Resettable Energy	Wh (0 - 429496729.3)	2%	Y
	Lifetime Apparent Energy	Wh (0 - 429496729.3)	4%	N
	Resettable Apparent Energy	Wh (0 - 429496729.3)	4%	Y
	Average Mains Voltage	V (0-310)	2%	Y
	Average Mains Current (mA)	mA (0 - 15000)	2%	Y
	Average Frequency	Hz (0 - 60)	2%	Y
Diagnostic - Bridge	Bridge Operating Time	hrs (0 - 1193046)	4%	N
	Bridge Load On/Off Cycle	Counter (0 - 16777213)	4%	N
	Bridge Temperature	°C (0°C - +90°C)	5%	/
	Bridge Temperature w/Hours	°C (0°C - +90°C)	5%	N

## Mechanical Data



### Overall Dimensions

Length	5.17" [131.5mm]
Width	2.26" [57.6mm]
Height	1.29" [33mm]
Wire Length	
AC Input (White/Black)	12.4" [315mm]
LED Output (Red/Black)	12.4" [315mm]
Control 0-10V (Pink/Purple/Orange)	12.4" [315mm]
RJ12	17.3" [440mm]
Ground (Green/Yellow)	12.4" [315mm]

Case Tolerance=±0.02" [0.5mm]

Mount screw: #10-24\*1 inch  
Mounting hole for threaded pipe: 7/8" (22mm)

### Notes:

1. Driver has two (2) mounting tabs with a round hole in each.
2. Fasten a screw through the mounting tab if mounted on a flat surface.



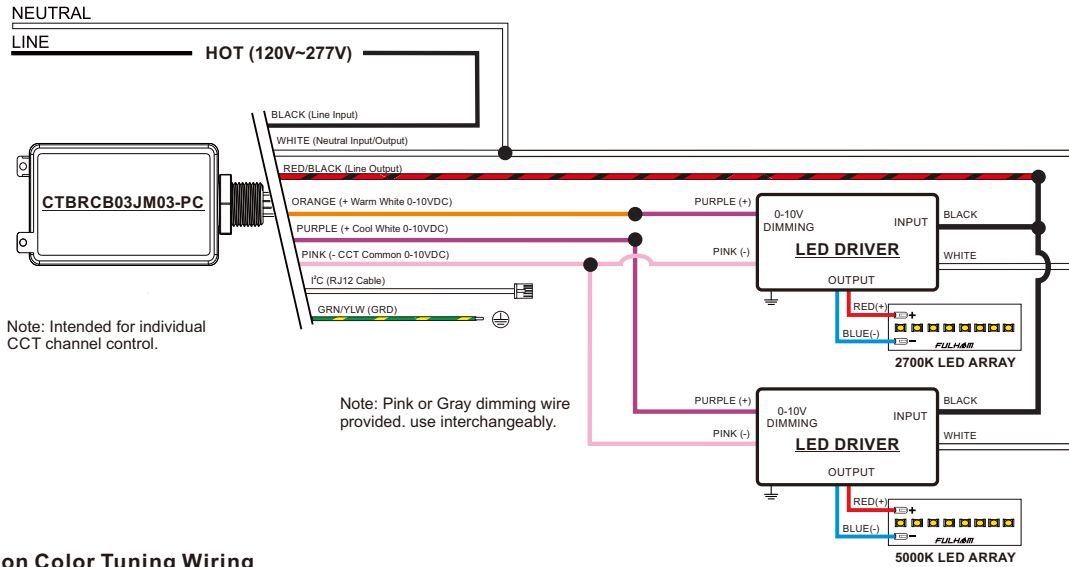
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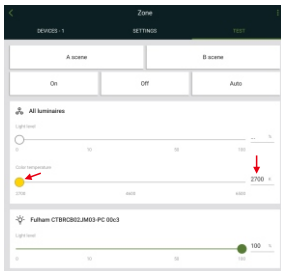
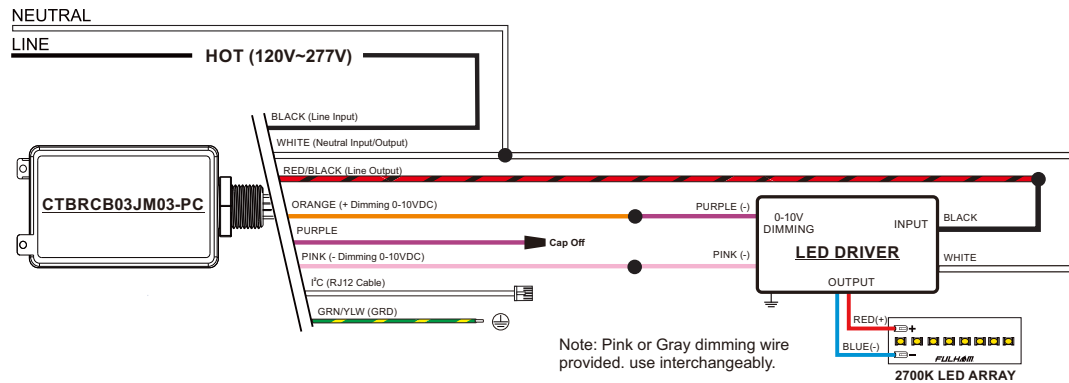


## Wiring Diagram

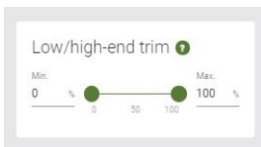
### Color Tuning Wiring



### Non Color Tuning Wiring



**NOTE:**  
When using this unit without color tuning (single channel mode), CCT should be set to 2700k during provisioning



**NOTE:**  
If 100% light output is required, ensure trim is set to 100% on the web portal

**Notes:**  
Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.

### FCC Caution.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:  
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.  
Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



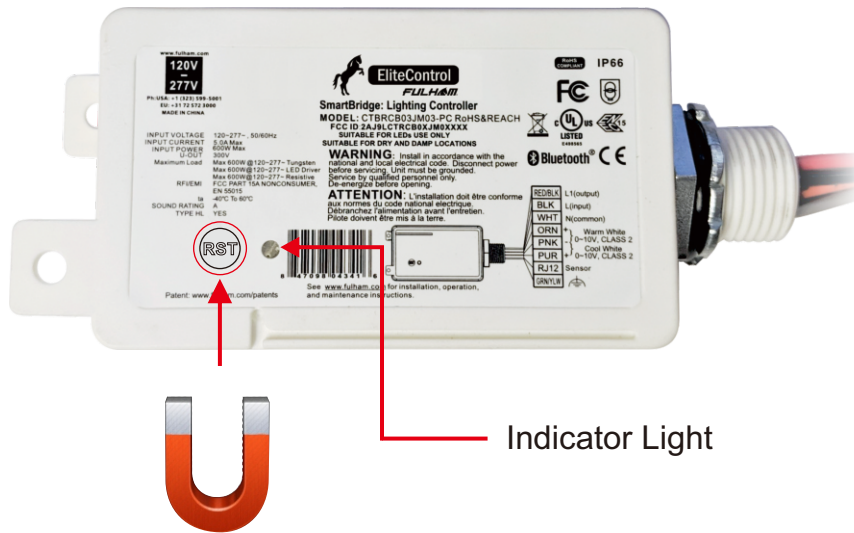
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## Restoring Factory Settings

- To reset the unit you will need to place and hold a magnet for 10 seconds on the reset icon (RST) on the location of the unit shown in the image below.
- Once the magnet has been placed the Indicator Light will stay lit and begin to flash until it shuts off indicating that the unit has been successfully reset.
- Remove the magnet from the unit, the Indicator Light will light up and flash repeatedly
- The unit is now ready to be provisioned.





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## Part Number Matrix

**CT** **BRC** **B** **03** **J** **M** **03** **PC**

Lighting Control Controller	Subfamily	Primary Protocol & Powering	Primary Control Channels	Package	Secondary Protocol & Powering	Secondary Control Channels	Control Capabilities & Features
CT = Controller	BRC = Bridge Controller	B = Bluetooth / Universal Input	03 = 3 Channel	J = J-Box Mount (Conduit Male Fitting Connector)	M = 0~10V	03 = 3 Channel	PC = Power Metering / Color Tuning

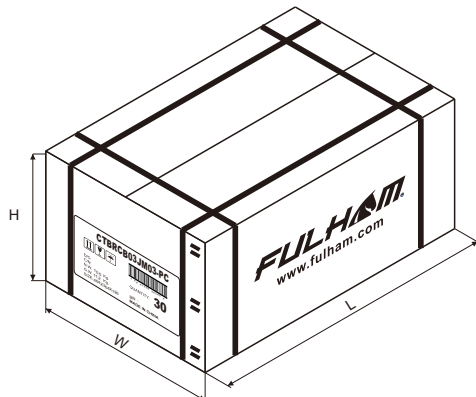
## Product Image: LED Driver

### CTBRCB03JM03-PC



## Packaging

### Master Carton



OUTER DIMENSION		
L	W	H
18.26"(464mm)	14.33"(364mm)	7.48"(190mm)
Net Weight	Gross Weight	QUANTITY
23.14 lbs. (10.5kg)	24.69lbs. (11.2 kg)	30pcs.