



EliteControl CTBRCB03JM03-PC Lighting Controller Instructions

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EliteControl CTBRCB03JM03-PC Lighting Controller



Product Information:

- Product Name: CTBRCB03JM03-PC Lighting Controller
- Output Wattage: 600W Max
- Universal Voltage: 120-277VAC
- Dimming Controller Type: 0-10Vdc Type / Channels
- RF Communication Type: 1/2 Knockout Mount IP66
- Input Surge Protection: Yes
- Overall Size: Not specified
- Weight: 15 lbs
- Sound Rating: Not specified
- Service Life: Not specified
- Warranty: Not specified

Product Usage Instructions:

- Step 1: Check the input voltage and frequency. The input voltage should be in the range of 120-277VAC with a frequency of 50-60Hz.
- Step 2: Connect the input wires to the power source. The input current should not exceed 5A.
- Step 3: Connect the output wires to the luminaire. The maximum load should not exceed 600W.
- Step 4: Install the lighting controller using the mounting type suitable for your application.
- Step 5: Connect the dimming controller and RF communication type according to your requirements.
- Step 6: Ensure input surge protection is in place.
- Step 7: Turn on the power source and operate the device as per your requirements.

Note: Always refer to the product manual for detailed instructions and safety precautions before using the device.

Lighting Controller

- Output Wattage: 600W Max.
- Universal Voltage (120-277VAC)
- 0-10V Luminaire
- 1/2" Knockout Mount
- IP66
- FCC ID : 2AJ9LCTRCB0XJM0XXXX

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's EliteBlue commissioning app can be found on the Apple app store by searching "EliteBlue". For web app, please visit <https://eliteblue.fulham.com>

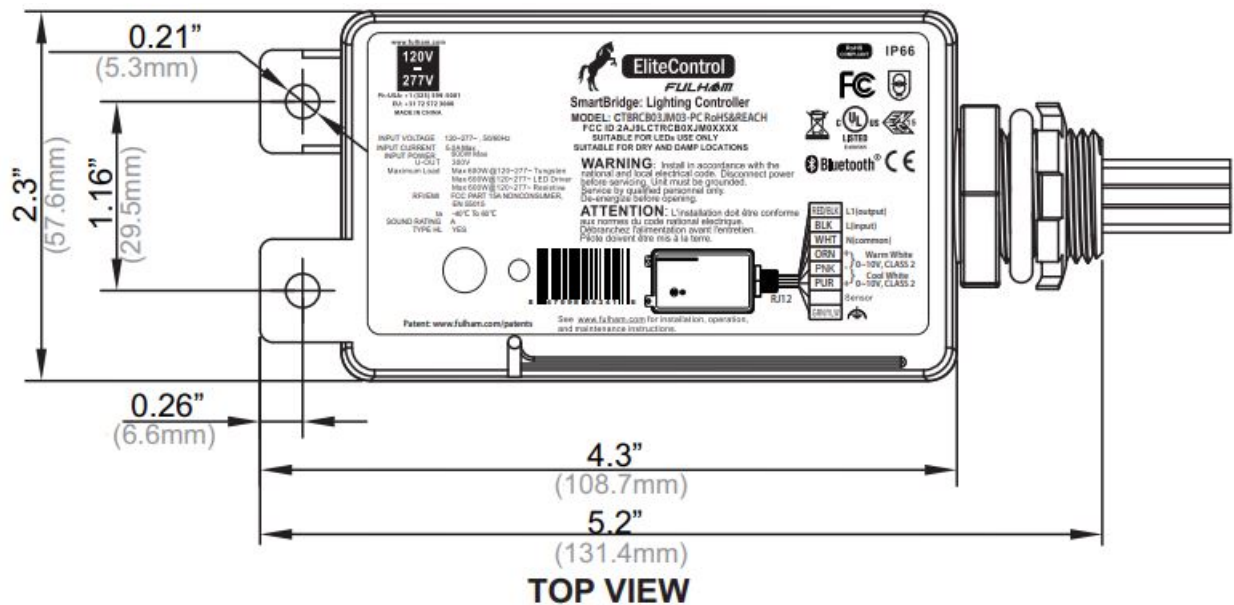
Complete commissioning manual can be found at:

<https://www.fulham.com/PDFs/eliteBlue-commissioning-manual.pdf>

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
Diagnosis – 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



Mount screw: #10-24*1 inch

Mounting hole for threaded pipe: 7/8" (22mm)

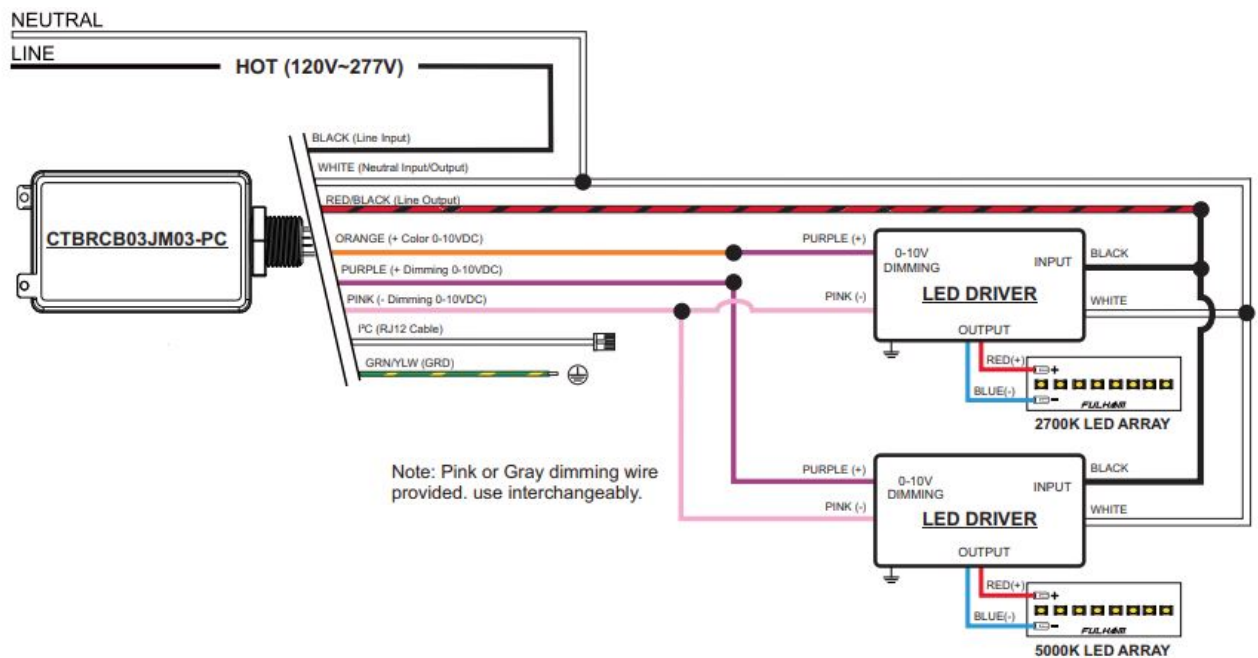
Notes:

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.

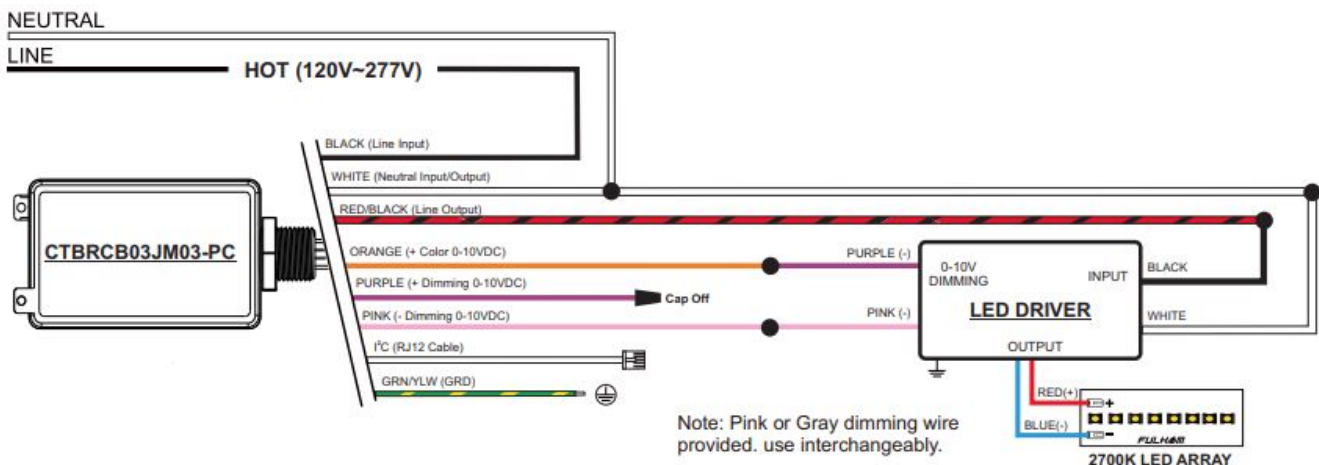
Overall Dimensions	
Length	5.17" [131.5mm]
Width	2.26 " [57.6 mm]
Height	1.29 " [33mm]
Wire Length	
AC Input (White/Black)	12.4" [315mm]
LED Output (Red/Black)	12.4" [315mm]
Control 0-10V (Pink/Purple/ Orange)	12.4" [315 mm]
RJ12	17.3" [440 mm]
Ground (Green/Yelow)	12.4" [315 mm]

Wiring Diagram

Color Tuning Wiring

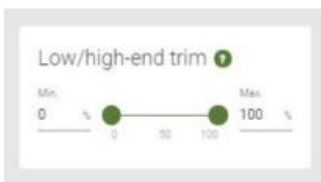


Non Color Tuning Wiring



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.

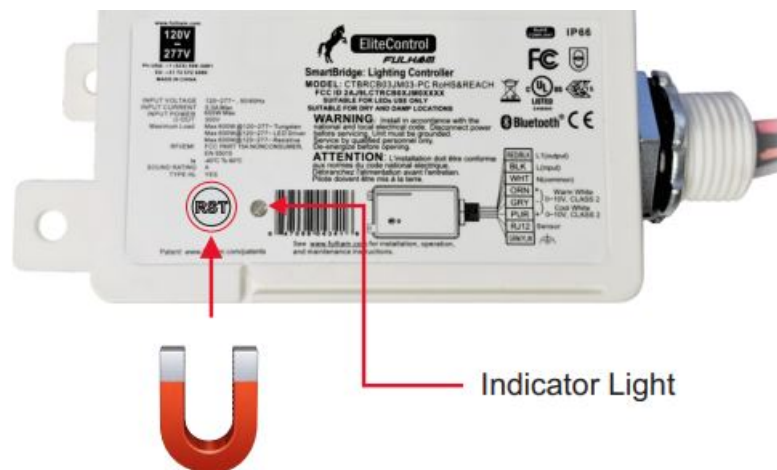
FCC Caution

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.

Restoring Factory Settings

- To reset the unit you will need to place and hold a magnet for 10 seconds on the reset icon  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.



SPECIFICATION INSTRUCTIONS

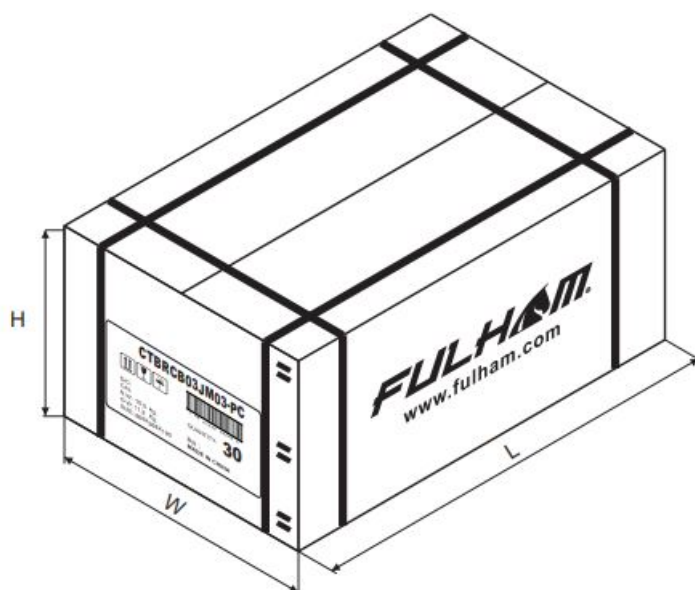
Part Number Matrix

<u>CT</u>	<u>BRC</u>	<u>B</u>	<u>03</u>	<u>J</u>	<u>M</u>	<u>03</u>	<u>PC</u>
<u>Lighting Control Controller</u>	<u>Subfamily</u>	<u>Primary Protocol & Powering</u>	<u>Primary Control Channels</u>	<u>Package</u>	<u>Secondary Protocol & Powering</u>	<u>Secondary Control Channels</u>	<u>Control Capabilities & Features</u>
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



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.	




Specifications subject to change without notice.

Documents / Resources



[EliteControl CTBRCB03JM03-PC Lighting Controller \[pdf\] Instructions](#)
CTBRCB03JM03-PC Lighting Controller, CTBRCB03JM03-PC, Lighting Controller, Controller

References

-  [Fulham: Lighting Solutions | LED Drivers | Ballasts | Emergency | Modules](#)
-  [Fulham: Patents](#)
-  [Fulham EliteBlue Commissioning](#)