DCM5-S - DIMMING CONTROL MODULE
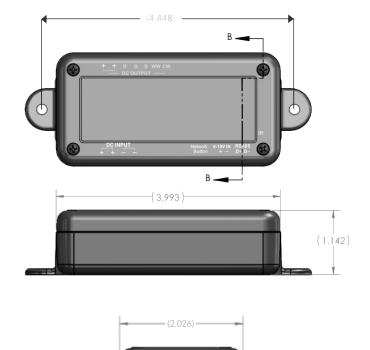# 5 CHANNEL

OVERVIEW

The DCM5-S, RGB+CCT (aka RGB WWCW) is a compact 5 channel, low side, LED Controller, designed to be interfaced with power supplies ranging from 12VDC to 24VDC.

The DCM5-S has built in logic to control RGB, RGBW, RGB+CCT, and CCT1 + CCT2 as needed. It can dim CCT1 + CCT2, WW and CW LED loads from 0 to 100% duty cycle, with a maximum output power of 196 watts per channel depending on the voltage.

Low side switching means the controller has a common positive designed to drive common anode LED strips, which is typical for RGB strips. Pulse Width Modulation (PWM) frequency is at 1250 Hz for flicker-free light.

The standard model can be surface mounted without the need of additional enclosures or boxes. For installations requiring more power see the DCM5-Plus. The DCM5-S has two network communication channel, ZigBee Pro Wireless or RS485 wired.

October28,20219:31AM

INPUT

- 12V, 96W MAX / 24V, 192W MAX
- LVLE Limited Class 2 or Certified SELV LED Power Supply
- Alternatively, a 5A external fuse at 12V or 4A at 24V or smaller can be used to create a LVLE circuit

OUTPUT

- 8.0A MAX per channel, 5 channel, Com Anode, RGB + WWCW
- 12V, 96W MAX / 24V, 196W MAX
- Output Voltage follows input Voltage

Note: RGB LED Strips are wattage rated as if all LEDs were lit at 100%. In reality this is never the case. The power supply for RGB can be sized by RGB strip rating/3, for RGBW at RGBW rating/4.

EXTERNAL CONNECTIONS

Pluggable terminal connectors, 5mm pitch, direct wire type max size 16AWG, 8A max per connection

COMMUNICATION

ZigBee Pro Wireless certified radio module

- FCC ID: WP4LPZM3
- IC:9709A-LPZM3

RS485

- DMX512 (optional) Controller or Slave
- Two wire bus (half duplex)
- Voltage level D+/- inputs: -13v to 16.5v
- Pluggable terminal connector, 3.5mm

RS485 Wiring -

- RS485 standard 32 units maximum.
- 250kbit.
- Cat5 cable, 24 AWG twisted pair
- 4000ft maximum bus length.
- Only Two bus terminations of

120 ohm required, one at both ends of the main bus.

INDOOR USE ONLY

Ambient Conditions, 32 to 77°F (0 to 25°C), RH ≤85% Non-condensing. Dry location only.

DIMENSIONS

3.993" x 2.026" x 1.142" (w/o flanges)

HOW TO ORDER

axxind.com/dealers

COMPLIANCE/APPROVALS

Listed, Conforms to CSA 250.13 and UL 8750

QAI

Conforms to CSA 250.13 and UL 8750

c ® US

NRTL E10494 Component

CE

PAT. PEND.