DS Series

Addressable LED SPI Controller Specifications

Project_____

Date_____Type_____

DS-RT09

DS-SC

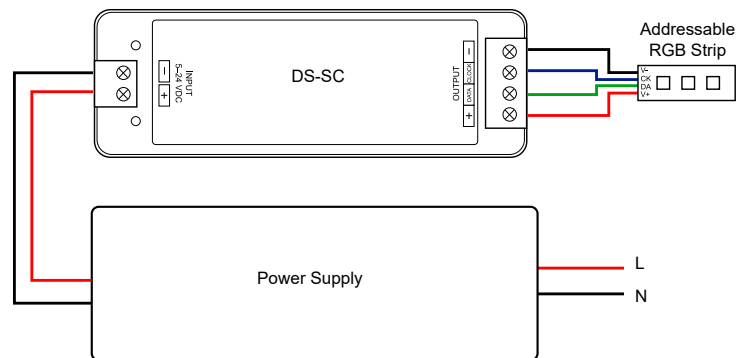| Voltage	2.4 GHz	SPI	5-Year
5–24 VDC	Wireless Control	addressable output	Warranty

Available Models

☐ DS-SC (controller)

Required Accessories

☐ DS-RT09 (RF remote control, CR2032 battery included)

Warranty

Five (5) Year Warranty.

Wiring Diagram

Description

The DS-SC controller and DS-RT09 remote is a compact, powerful control system for color-chasing LED lights. Compatible with several IC chip types (see compatibility list), this interface will control up to 1,024 pixels. Pair this controller with the bundled wireless remote to navigate the 32 preset modes as well as adjust brightness and chase speed. Simply connect this unit to compatible LED strips and a power supply to create vibrant color-chasing effects, with the convenience of a wireless remote control.

Construction

• White plastic housing

Functions

• SPI output signal controls a variety of digital LED lights with compatible ICs
• IC type and RGB order can be set and programmed through wireless remote (sold bundled or separately)
• Offers selection of 32 dynamic modes, adjusting brightness, chase speed, and RGB sequence
• Controls up to 1024 pixels

Electrical

• 5–24 VDC
• DATA/CLK SPI output for up to 1,024 pixels
• 7.5 A / 37.5–180 W maximum output (wattage varies by input voltage)

Specifications

Model	DS-SC
Input Voltage	5–24 VDC (must match strip side voltage)
Max. Input Current	8 A
Max. Output Current	7.5 A
Output Channels	1 (DATA + CLK)
Connection Type	screw terminal (all connections)
RF Range	98.4 ft (30 m)
IP Rating	IP20
Ambient Operating Temperature	-22°–131° F (-30°–55° C)

Compatible IC Types

TM1803, TM1804, TM1809, TM1812, UCS1903, UCS1909, UCS1912, UCS2903, UCS2909,UCS2912, WS2811, WS2812, TM1829, TLS3001, TLS3002, GW6205, MBI6120, TM1814B,SK6812, UCS8904B, LPD6803, LPD1101, D705, UCS6909, UCS6912, LPD8803, LPD8806, WS2801, WS2803, P9813, SK9822, TM1914A
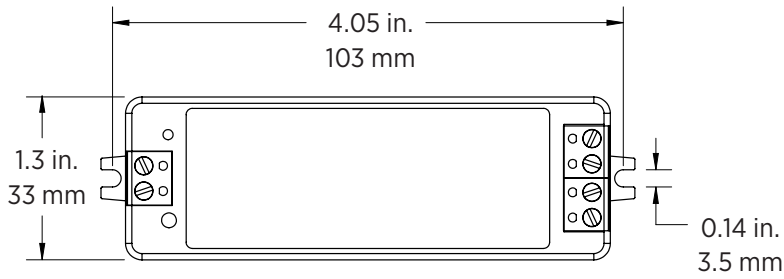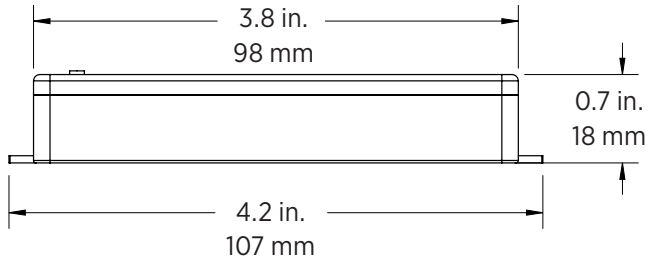
Rev V1 Date: 02/22/2021
Specifications are subject to change without notice.
Printed in the U.S.A.

Dimensions

DS-SC

3.8 in.
98 mm

0.7 in.
18 mm

4.2 in.
107 mm

4.05 in.
103 mm

1.3 in.
33 mm

0.14 in.
3.5 mm

DS-RT09

4.2 in.
107 mm

2.3 in.
59 mm

0.4 in.
10 mm

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