

SCM-DLC

DIGITAL LIGHT CONTROLLER



DESCRIPTION

The SCM-DLC Digital Light Controller is engineered to integrate seamlessly between Shadow-Caster® Lighting Controls and the latest digital LED light strips to create distinctive and customizable lighting displays.

Craft intricate lighting patterns, dynamic effects, and captivating sequences that will not just illuminate but animate your vessel, RV, or off-road vehicle.



FEATURES

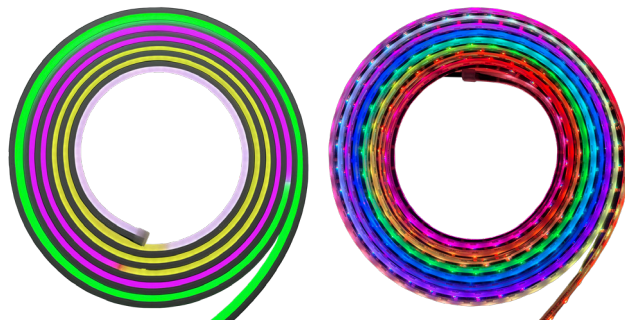
- Shadow-NET® enabled
- Logo backlit power indicator
- Deutsch IP67 rated connections for clean installations
- Field programmable and compatible with Shadow-Caster® Light Commander
- Use standalone or with Shadow-NET®

SPECIFICATIONS

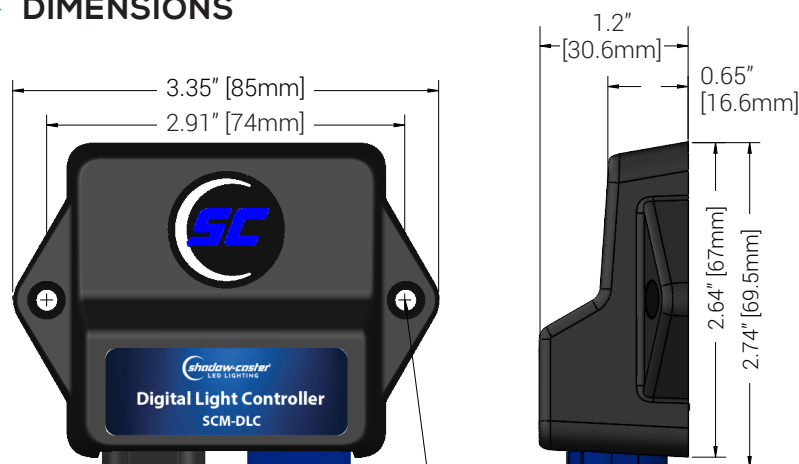
- Up to 10A of digital lighting control
- Supports WS standards
- Digital overcurrent protection
- IP67 sealed housing
- 3.35" x 2.74" x 1.2" [85 x 69.5 x 30.6mm]

INCLUDES

- Digital Lighting Controller
- Pigtailed Deutsch Harnesses
- 2 Screws (#8 x 3/4" SS316PH Screws)
- 3 year warranty



DIMENSIONS



Use mounting screws
Ø 3/8" x 1" [9.5mm x 25.4mm]



Designed & Manufactured
in Clearwater, FL

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Shadow-Caster® LED Lighting | 2060 Calumet Street | Clearwater, FL 33765
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2024.02

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► THEORY OF OPERATION

The Shadow-Caster® Digital Lighting Controller communicates with “WS” LED strips and manages the power to them. It sends unique patterns with power toggles to create custom patterns through the Shadow-Net Connection to a Light Commander controller. Connected to a Shadow-NET controller, it responds to commands via the bus for synchronized, customizable lighting.

► FAULT DETECTION

The Shadow-Caster® Digital Light Controller is designed to self protect from Over-current conditions. In the event that a fault is detected, the SC backlight will flash, and the output power will be disabled.

The unit can be reset by cycling power to the unit.

► SCM-DLC PROGRAM INDEX

The following programs are available by either cycling the power or directly through the Shadow-Caster® Light Commander Interface.

Programs:

- Bounce
- Clouds
- Addition
- FIFO
- Middle OUT
- Sparkle
- Hailstorm
- Shadow Rider
- Frequency
- Frequency Middle OUT
- Fireworks
- Fireworks with White Tail



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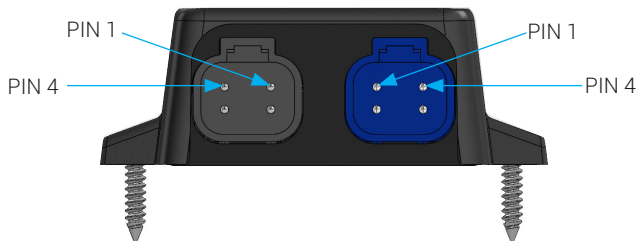
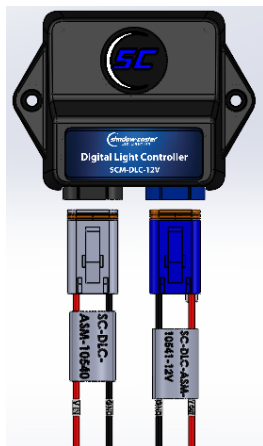
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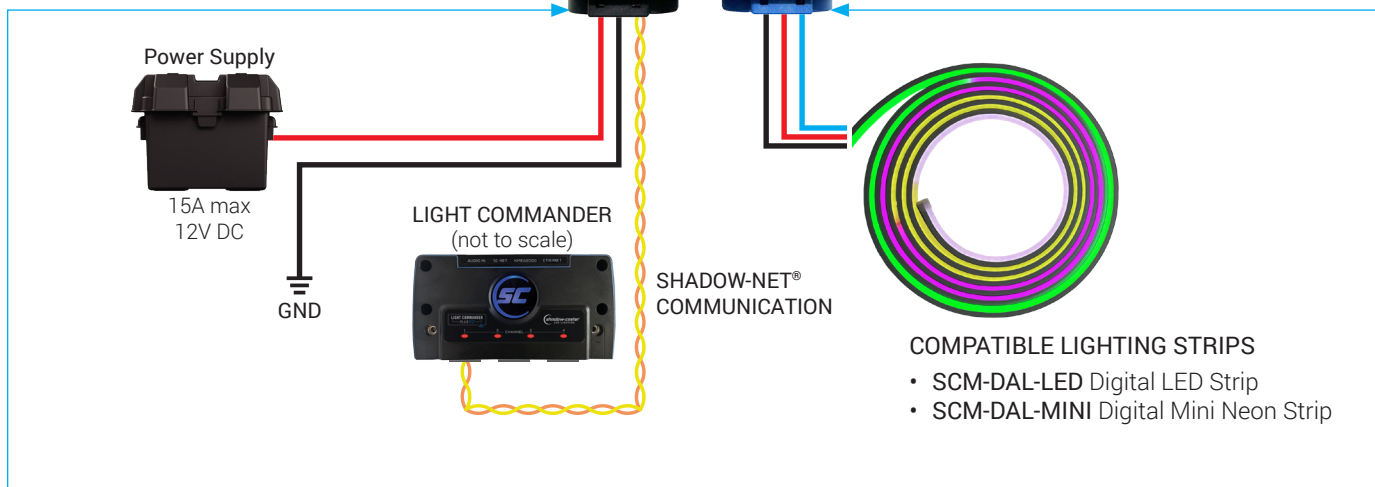


► WIRING & USE SCHEMATICS - 12V VERSION



► OPERATION - 12V VERSION

- Max 10A of LED strip
- Support for 360 pixels
- Stand alone operation
- Toggle power to change mode
- Full featured control with Light Commander



PIN CHART

DT06-4S	PIN	GAUGE	JACKET COLOR	LABEL	FUNCTION
 BACK VIEW	Pin 1	16	RED	V IN	12V IN, 10A MAX
	Pin 2	18	ORANGE	CAN-L	CAN LOW
	Pin 3	18	YELLOW	CAN-H	CAN HIGH
	Pin 4	16	BLACK	GND	GROUND

PIN CHART

DT06-4S (BLUE)	PIN	GAUGE	JACKET COLOR	LABEL	FUNCTION
 BACK VIEW	Pin 1	18	BLACK	GND	GROUND
	Pin 2	18	BLUE	DATA	DATA OUT
	Pin 3	NOT USED	PLUGGED	-	-
	Pin 4	18	RED	V OUT	12V OUT, 10A MAX



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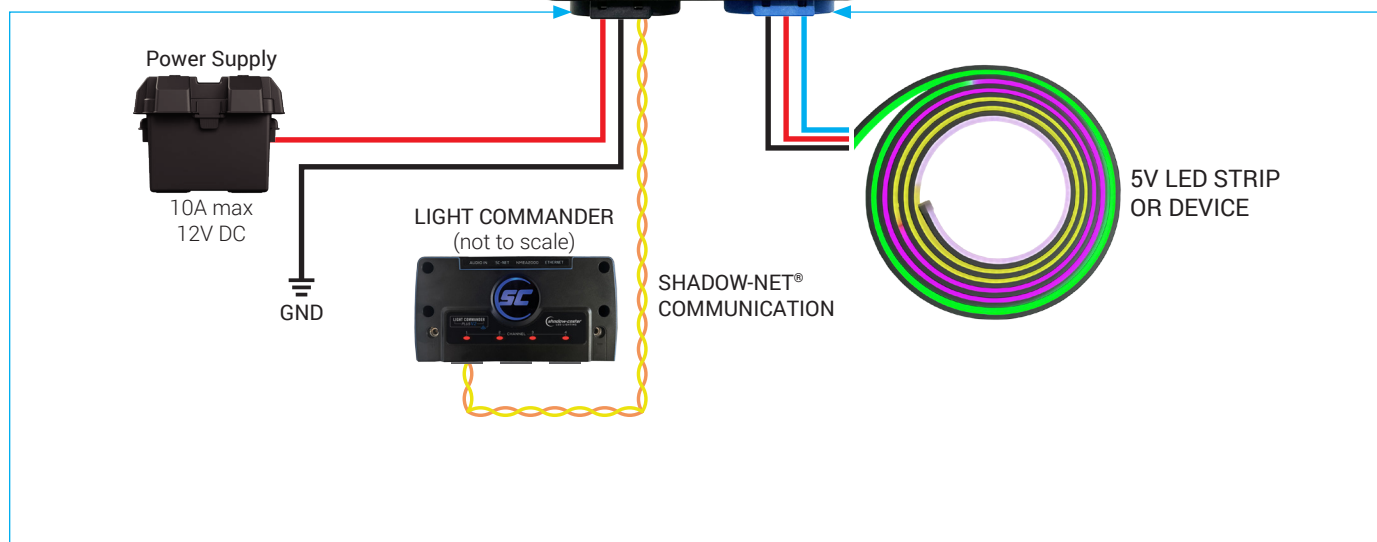


► WIRING & USE SCHEMATICS - 5V VERSION



► OPERATION - 5V VERSION

- Max 10A of LED strip
- Support for 360 pixels
- Stand alone operation
- Toggle power to change mode
- Full featured control with Light Commander



PIN CHART

DT06-4S	PIN	GAUGE	JACKET COLOR	LABEL	FUNCTION
 BACK VIEW	Pin 1	16	RED	V IN	12V IN, 10A MAX
	Pin 2	18	ORANGE	CAN-L	CAN LOW
	Pin 3	18	YELLOW	CAN-H	CAN HIGH
	Pin 4	16	BLACK	GND	GROUND

PIN CHART

DT06-4S (BLUE)	PIN	GAUGE	JACKET COLOR	LABEL	FUNCTION
 BACK VIEW	Pin 1	NOT USED	PLUGGED	-	12V AVAILABLE
	Pin 2	18	RED	V OUT	5V OUT, 10A MAX
	Pin 3	18	BLUE	DATA	DATA OUT
	Pin 4	18	BLACK	GND	GROUND



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► MOUNTING INSTRUCTIONS

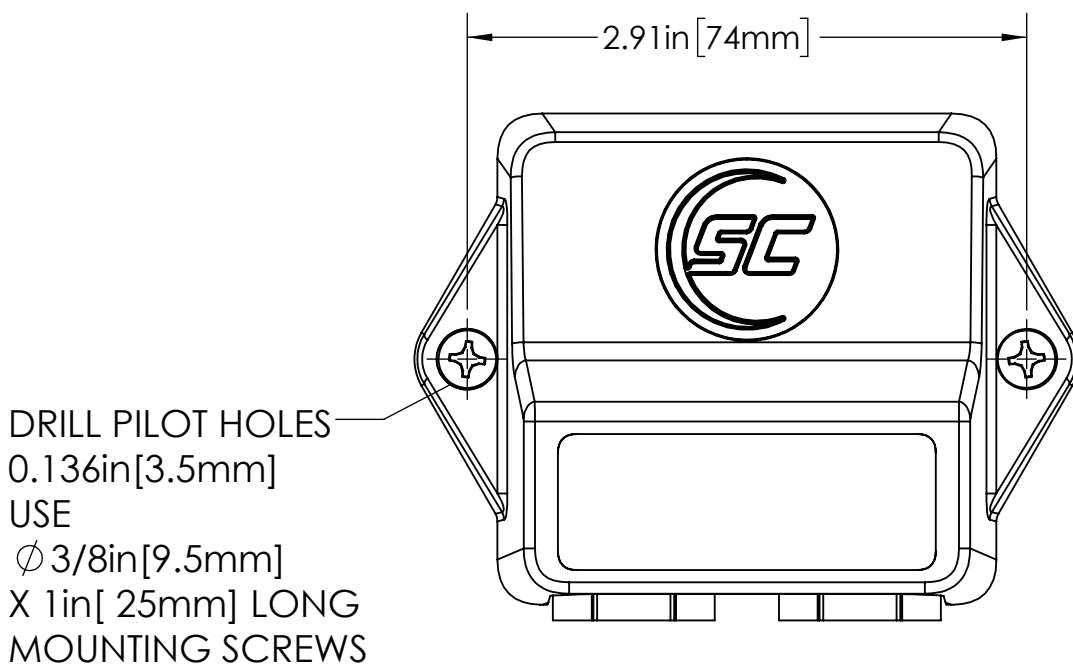
1. Find a flat spot to mount the SCM-DLC Digital Light Controller.
2. Print the mounting template below and tape to your preferred mounting location.
3. Drill the pilot holes and center hole.
4. Use Perma-Seal connectors for the wiring.

WARNING! PRINT @ 1:1 SCALE

► MOUNTING TEMPLATE

IMPORTANT!

When printing installation templates, please ensure your printer is set to print at 'Actual Size' and double check all printed dimensions exactly match the specified dimensions.



MOUNTING TEMPLATE
PRINT @ 1:1 SCALE



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