### SCM-DLC-TX-RX

DIGITAL LIGHT CONTROLLER EXTENDER





#### THEORY OF OPERATION

The DLC-TX-RX module is designed for use with Shadow-Caster's Digital LED Lighting Controllers (DLC) and Digitally Addressable LED lighting Strips (DAL). For use in situations where DLC modules cannot be installed within 6 ft (2 meters) of a Digital Lighting Controller, using a pair of Digital Lighting RX-TX modules can extend this distance to up to 50 ft. (15 meters)

The RX-TX modules convert the one-wire signal used by the digital LED strip into a differential pair signal. The receiver (RX) then converts it back to a one-wire signal. The 3-channel Digital Lighting Controller transmits differential signals natively and does not require separate transmitter modules.

The TX-RX modules are required in pairs. However, just receivers are required when used with the SCM-DLC-3CH which has the two wire interface built in already.

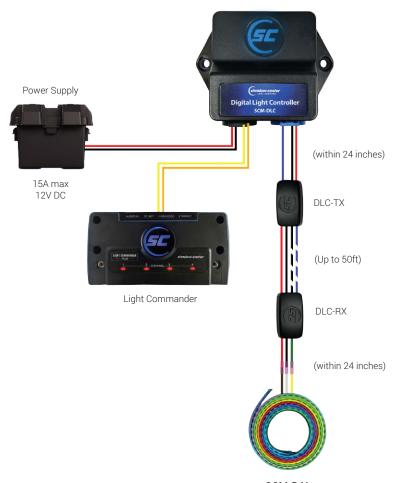
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DIGITAL LIGHT CONTROLLER EXTENDER



### WIRING & USE SCHEMATICS





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

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



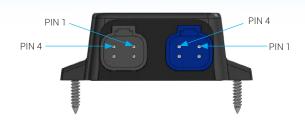
Designed & Manufactured

# SCM-DLC-TX-RX

DIGITAL LIGHT CONTROLLER EXTENDER



### WIRING & USE SCHEMATICS





SCM-DAL SCM-DAL-MINI-NEON SCM-DAL-SVMINI-NEON

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

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