

PROX Mesh NLC Server User Manual



Getting Started

PROX Mesh Network Lighting Control (NLC) Server is a core component in smart lighting systems, designed to simplify zone management and lighting configuration via BLE Mesh networking. It supports decentralized control and stable communication across multiple nodes

It is designed to work seamlessly with any standard Bluetooth Mesh-enabled switches. This ensures broad interoperability with third-party devices that comply with the Bluetooth Mesh specification (Bluetooth SIG).

*For verified compatibility, check the Bluetooth SIG's Qualified Product Database (QPD)

Product Prameter



Device	Short Specs
PROX-On/Off Server	
- Supply voltage: 12..24VDC - Input current capability: 30A - Output open-drain capability (per output): 15A - Dimensions: 76.5x27.5x26.5 (mm)	
PROX-OnOffSrv-1ch	1 - Channel
PROX-OnOffSrv-2ch	2 - Channel
PROX-OnOffSrv-3ch	3 - Channel
PROX-OnOffSrv-4ch	4 - Channel



Device	Short Specs
PROX-Light Lightness Server	
- Supply voltage: 12..24VDC - Input current capability: 30A - Output open-drain capability (per output): 15A - Dimensions: 76.5x27.5x26.5 (mm)	
PROX-LLSrv-1ch	1 - Channel
PROX-LLSrv-2ch	2 - Channel
PROX-LLSrv-3ch	3 - Channel
PROX-LLSrv-4ch	4 - Channel



Device	Short Specs
PROX-Light Lightness Analog Server	
- Supply voltage: 12..24VDC - Input current capability: 30A - Output open-drain capability (per output): 15A - Dimensions: 76.5x27.5x26.5 (mm)	
PROX-LLASrv-1ch	1 - Channel
PROX-LLASrv-2ch	2 - Channel
PROX-LLASrv-3ch	3 - Channel
PROX-LLASrv-4ch	4 - Channel



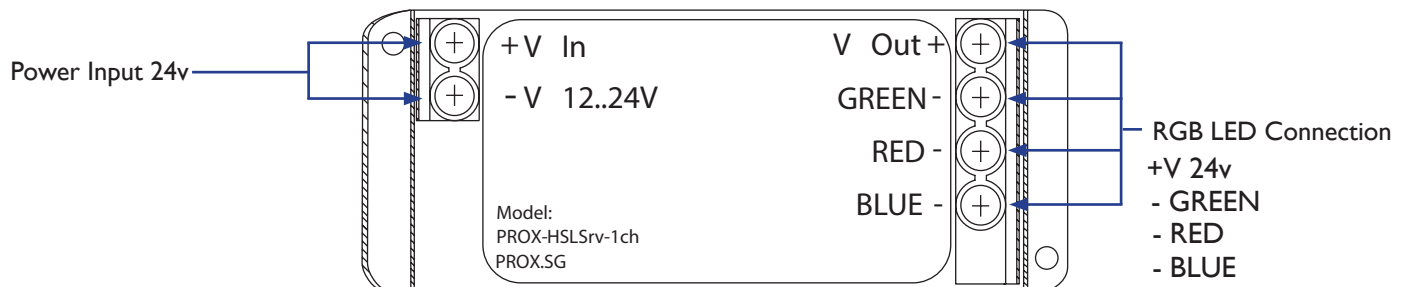
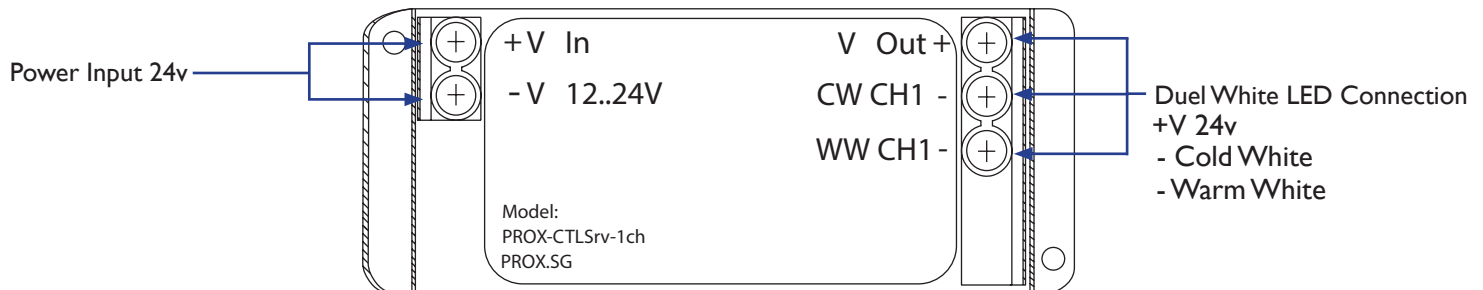
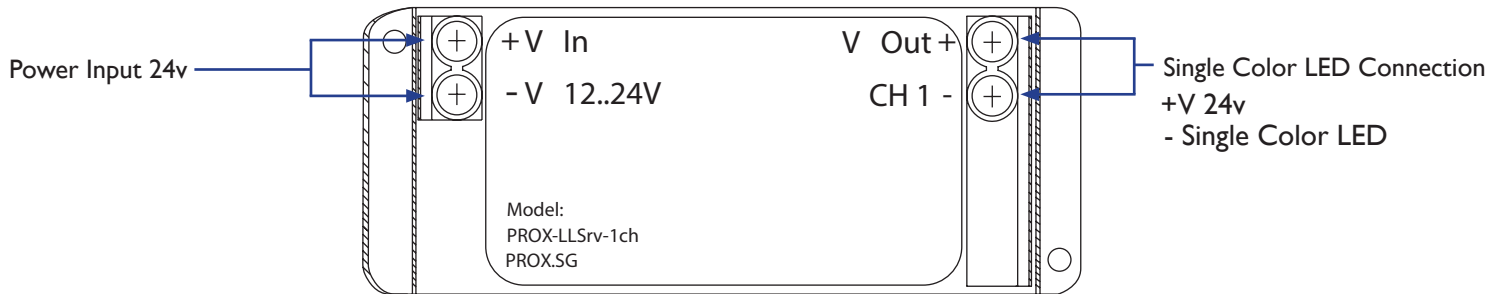
Device	Short Specs
PROX-Colour Temperature, Lightness Server	
- Supply voltage: 12..24VDC - Input current capability: 30A - Output open-drain capability (per output): 15A - Dimensions: 76.5x27.5x26.5 (mm)	
PROX-CTLSrv-1ch	1-channel (ColdWhite + Warm White)
PROX-CTLSrv-2ch	2-channel (ColdWhite + Warm White)



Device	Short Specs
PROX-Hue, Saturation, Lightness Server	
- Supply voltage: 12..24VDC - Input current capability: 30A - Output open-drain capability (per output): 15A - Dimensions: 76.5x27.5x26.5 (mm)	
PROX-HSLSrv-1ch	1-channel (R+G+B)

*PROX-HSLSrv highly recommend using only RGB LED Strips. To support any other type of RGB requires an additional model to support.

Operating Instruction



Attention:

For optimal performance, use a high-quality 24V constant-voltage power supply with a compatible LED Strip.

Do not exceed 24V – Higher voltage may cause excessive brightness, overheating, or damage to the LEDs.

Do not use below 24V – Lower voltage can reduce brightness and negatively impact the lifespan of the LEDs.

Be sure the power supply is not plugged into an outlet before connecting or disconnecting any of the systems components.

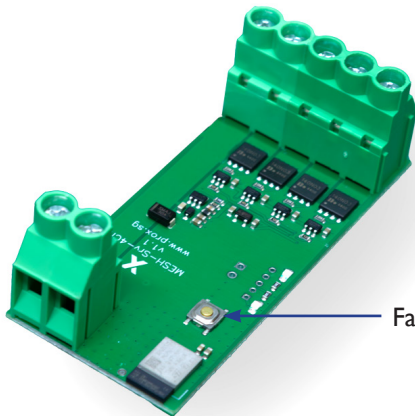
Do not expose the controller to direct or indirect moisture

Provisioning Guidance:

To connect, follow standard Bluetooth Mesh provisioning steps via the PROX Mesh NLC companion application

Once your purchase is complete, you will receive access to the PROX Mesh NLC monitoring and networking application.

Factory Reset

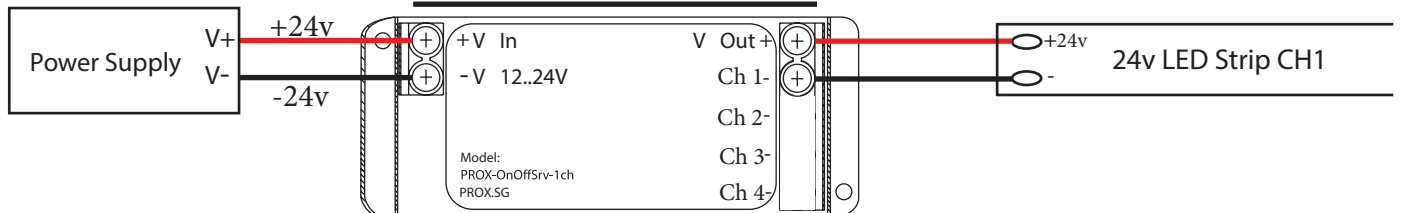


Factory Reset Button

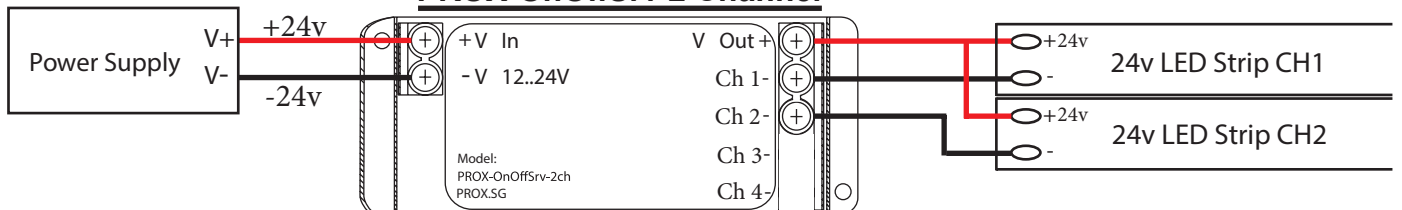
1. Insert a flat-head screwdriver into the hole located at the base of the enclosure.
2. Gently pry to release the cover.
3. Press and hold the Factory Reset button until the blinking red LED becomes a steady red to perform a Hardware Reset-light.

PROX-OnOffSrv Wiring Guide

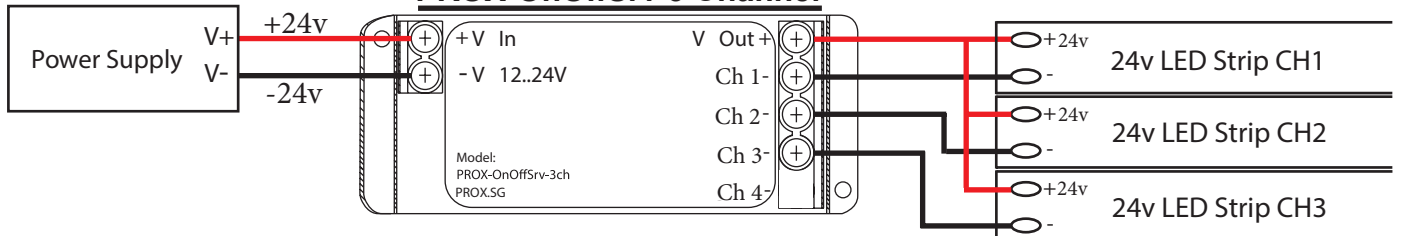
PROX-OnOffSrv 1 Channel



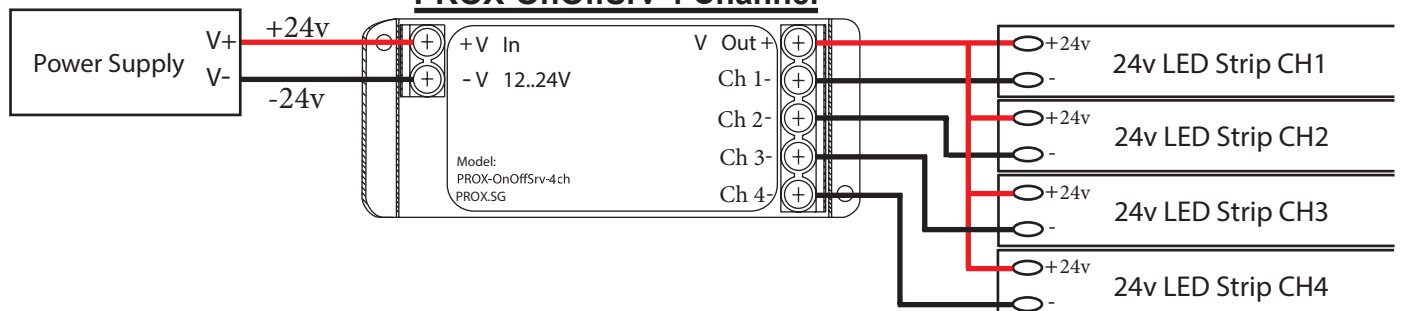
PROX-OnOffSrv 2 Channel



PROX-OnOffSrv 3 Channel

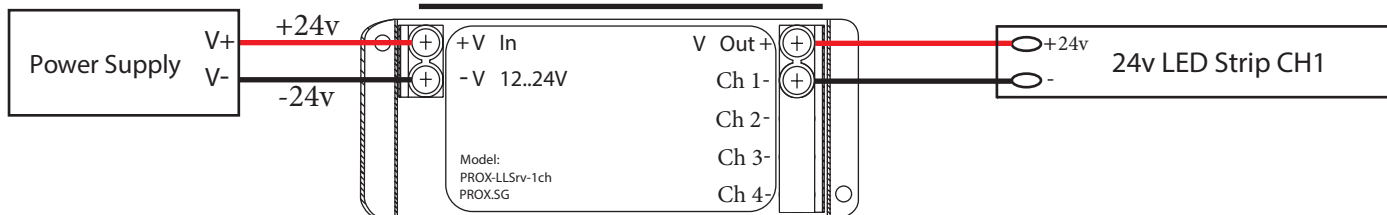


PROX-OnOffSrv 4 Channel

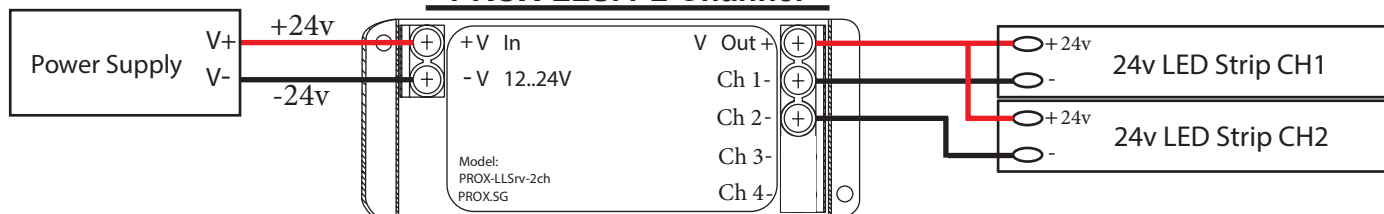


PROX-LLSrv Wiring Guide

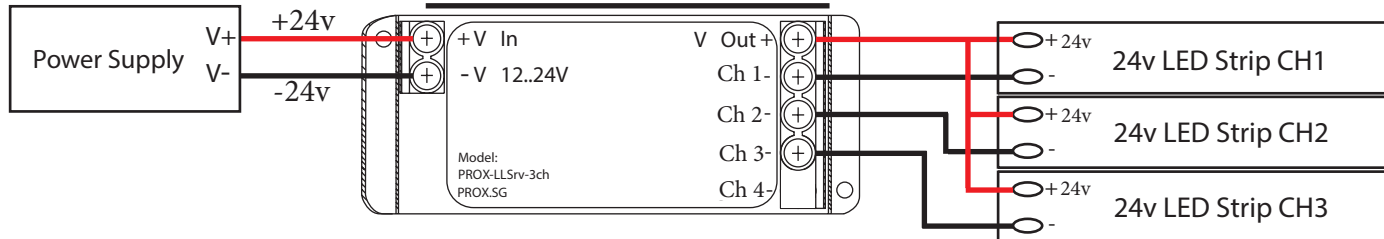
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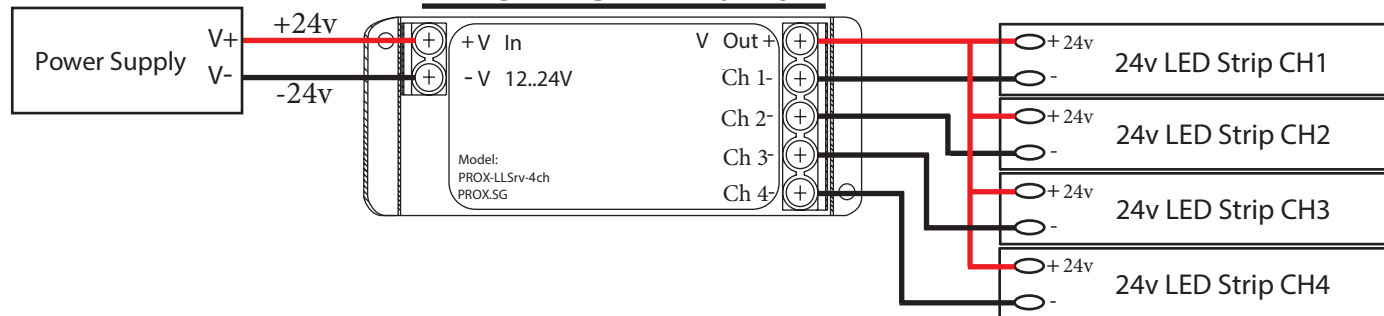
PROX-LLSrv 2 Channel



PROX-LLSrv 3 Channel

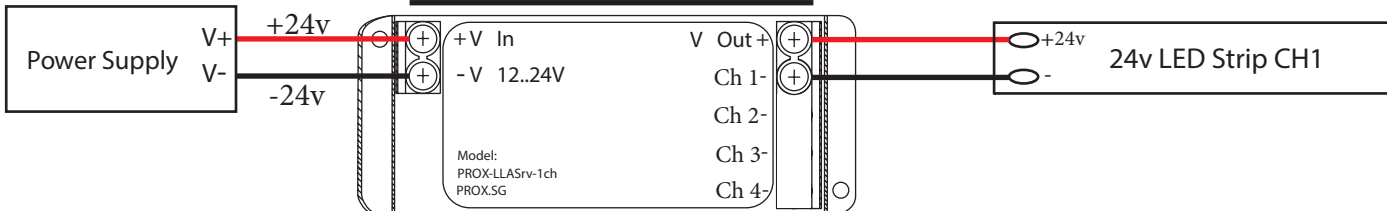


PROX-LLSrv 4 Channel

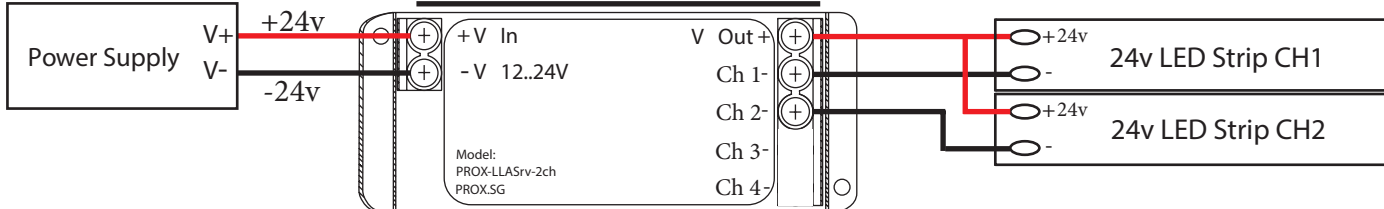


PROX-LLASrv Wiring Guide

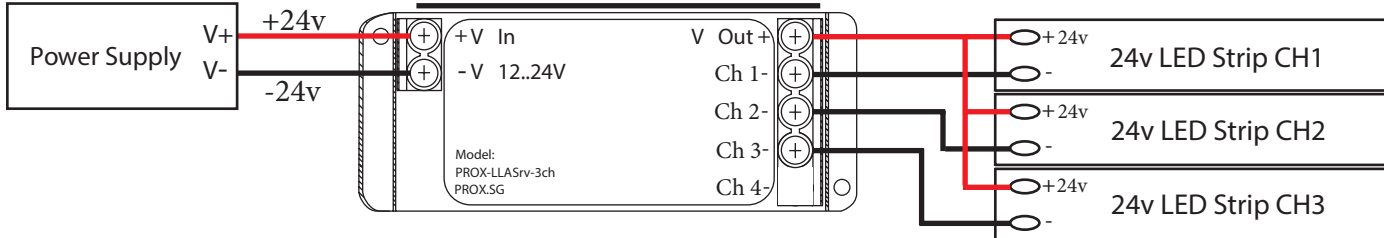
PROX-LLASrv 1 Channel



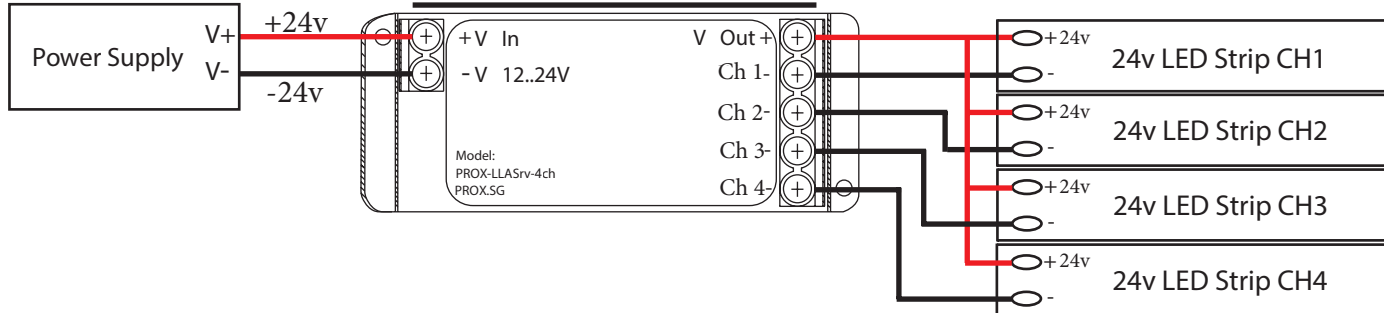
PROX-LLASrv 2 Channel



PROX-LLASrv 3 Channel

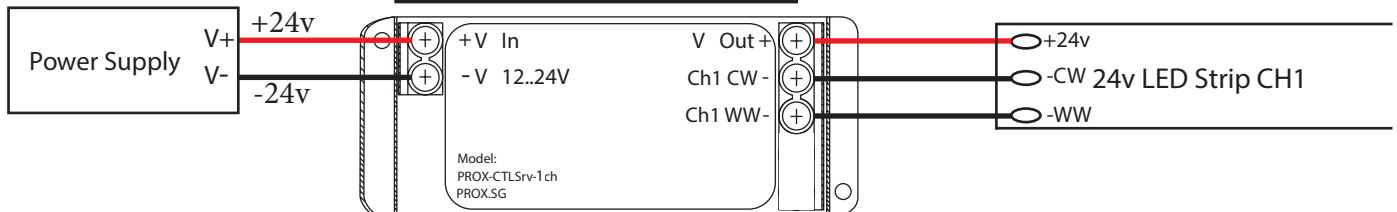


PROX-LLASrv 4 Channel

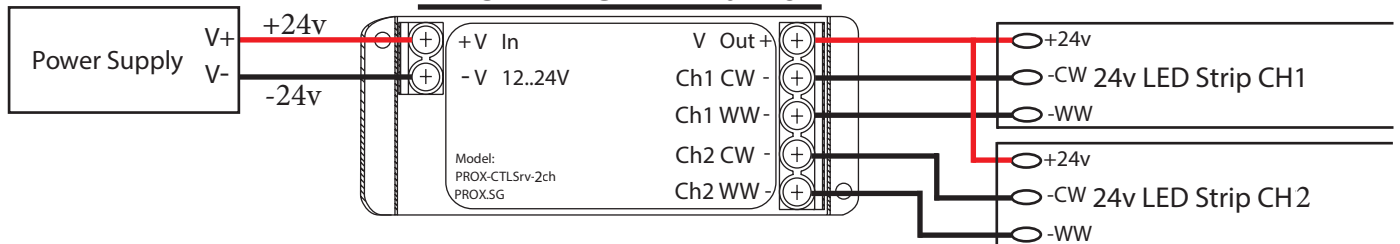


PROX-CTLSrv Wiring Guide

PROX-CTLSrv 1 Channel

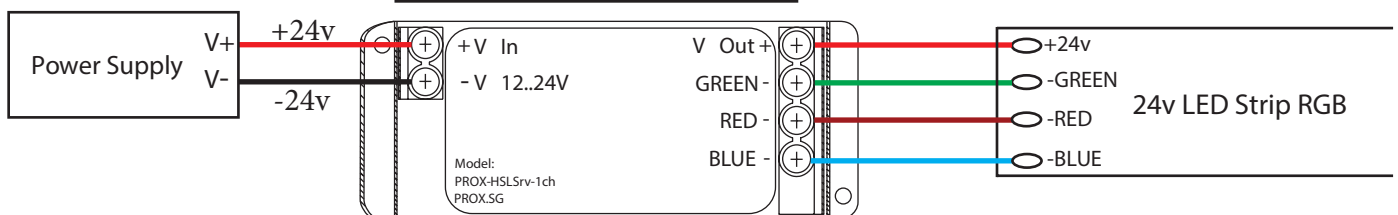


PROX-CTLSrv 2 Channel



PROX-HSLSrv Wiring Guide

PROX-HSLSrv 1 Channel



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