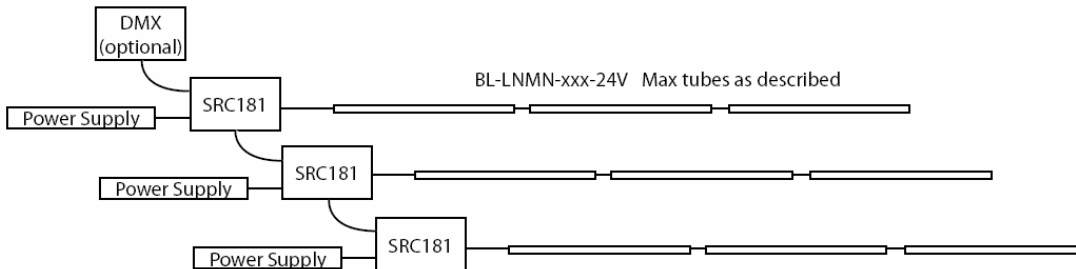


RGB LED Cove Washers Installation Guidelines

Please note that these guidelines are guidelines only and in no way supercede any construction or installation standard. It is strongly recommended that local building and electrical codes be consulted before installation to guarantee compliance.

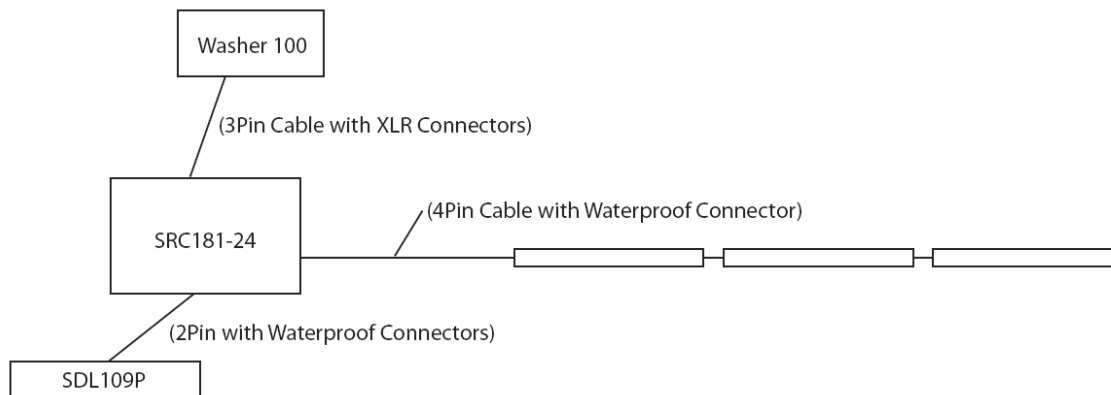
General Layout



Before you start:

1. Take the power supply, controllers, cables and at least one of the tubes out of the boxes; note which cable is the input and which is the output.
2. Take an inventory of what you have
 - a. The SRC181-24V is actually two parts
 - i. SRC181 – Signal Converter and Controller
 - ii. SDL109 – 12.5A Power Supply
 - b. RC100 Washer is a preprogrammed controller
3. Check the pin configurations on the components

Power Supply-to-SRC181	2 Pin	24V Power
SRC181-to-Tubes	4 Pin	Data and Power
SRC181-to-SRC181	3 Pin	Data Signal
SRC100-to-SRC181		



4. Controller Capacities

The maximum load on the SRC181/SDL109 is 60 units where

 - LNMN-300-24V = 1 unit
 - LNMN-600-24V = 2 units
 - LNMN-1000-24V = 3 units

Test Controllers

1. Plug the SRC181 to the SDL109
2. Plug in the SDL109 to a 120V receptacle
3. Indicator lights on the front of the SRC181 will change showing it is working
4. Power down and attach a light tube and make note of which end is the input and which is the output
5. Power up and test the tubes
6. Power Down
7. Link SRC181 Controllers together and SRC100 (if used) to ensure that the units self program master/slave modes
State will show H for master and C for slave

Mounting and Layout

Tubes can be installed with mounting clips or tie straps. Mounting clips are the preferred method as they allow for air flow. Tubes must not be installed closer than 1 inch apart from each other laterally.

Tubes are to be interconnected with the input and output 4-pin cables and can be extended with the 4-pin cords.

The SRC181 is IP65 and carries a fire rating of UL94V0. Avoid High Temperature, water or chemical substances. Do not install near heat sources or radiator holes. Allow space for ventilation. SDL109 is dry location. It must be in a clean, dry, and well ventilated location.

The maximum distance from the SDL109 Power Supply to the END of the last tube is approximately 150ft. The maximum distance between controllers for data interchange is approximately 500ft.

Tubes will have a length of LEDs as follows:

LNMN-300-24V	330mm 15 each Red, Green and Blue LEDs
LNMN-600-24V	660mm 30 each Red, Green and Blue LEDs
LNMN-1000-24V	990mm 45 each Red, Green and Blue LEDs

Tubes have a 40° beam pattern and may be installed with gaps between tubes.

Programming

SRC181

Master Mode

Press mode key to cycle through basic programs when State is H (master)

- d1 – Red
- d2 – Green
- d3 – Red / Green [Yellow]
- d4 – Blue
- d5 – Red / Blue [Purple]
- d6 – Blue / Green [Aqua]
- d7 – Blue / Red / Green [White]
- d8 – Colour Skipping
- d9 – Flashing
- dA – Fade between colours

Speed key will adjust the intensity of the colour for modes d1-d7 and the speed of change for modes d8-dA.

p1 is the dimmest or slowest and p6 is the brightest or fastest.

Slave Mode

The SRC181 will autosense their slave position if there is a signal detected on DMX input cable. The controller will behave exactly as the master controller does.