

# SR8

## Step Motor Drive

### Requirements

To use the SR8 Step Drive, the following items are needed:

- A power supply (24 - 75 VDC)
- Pulse & Direction signal
- A compatible step motor

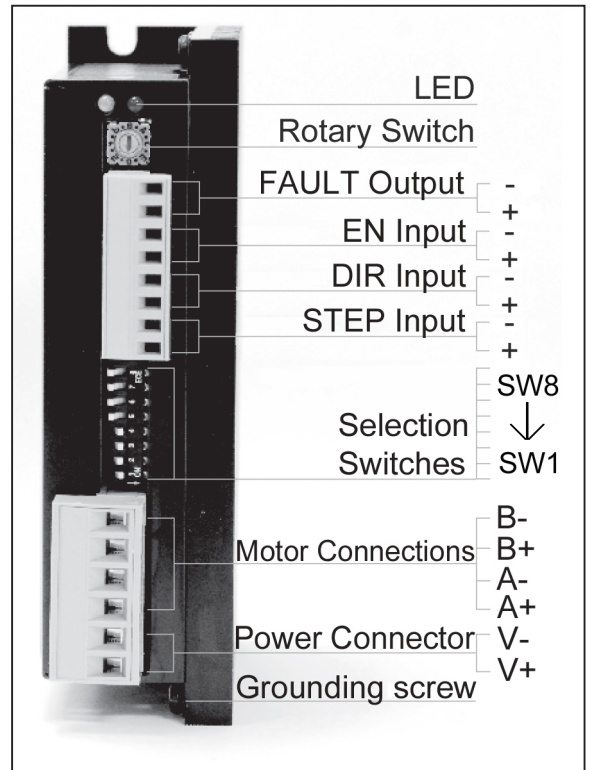
### Connect to the Power Supply

If the power supply does not have a fuse on the output or some kind of short circuit current limiting device, an 8 amp fast acting fuse should be installed in line with the "+" power supply lead.

Connect the motor power supply "+" terminal to the drive terminal labeled "V+". Connect the power supply "-" to the drive terminal labeled "V-".

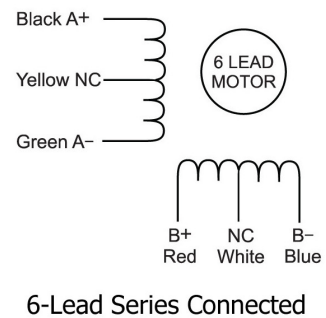
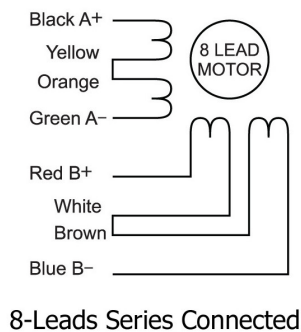
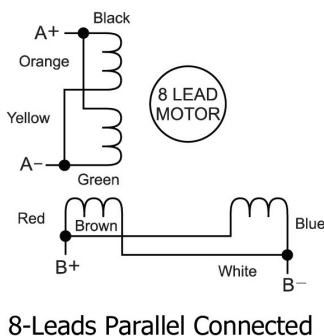
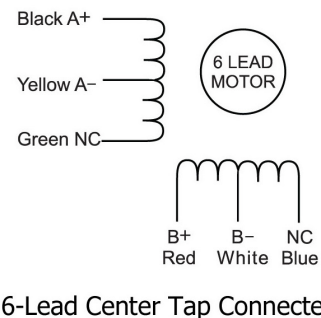
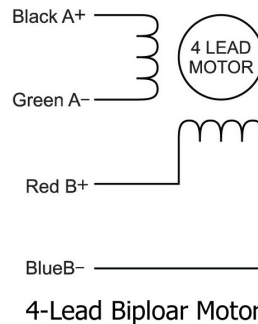
**Be careful not to reverse the wires.**

## Quick Set-Up Guide



### Connecting to a Motor

Connect the drive to the motor. Four lead motors can be connected in only one way. If using a non MOONS' motor, consult the motor specs for wiring information.

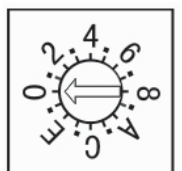


### Selecting the Motor

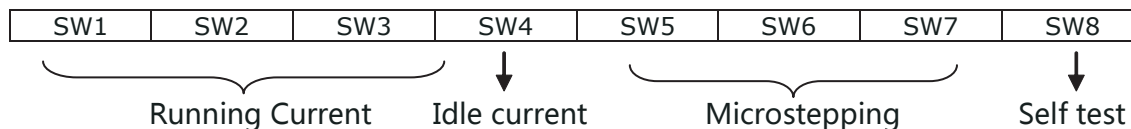
Each position of the 16-bit rotary switch selects a different motor, and automatically sets the configuration parameters in the drive. The SR8 drive comes programmed with up to 8 typical motors as factory defaults. Drives can be customized with specially selected motors when required. Available options are on the drive label.

The switch also selects a low or high inertia for each motor to allow for various load conditions. The low setting is 1:1, and the high setting is 10:1. Each motor in the loaded database has unique settings to optimize the anti-resonance.

**If the motor selection is changed, the drive power supply will need to be cycled.**

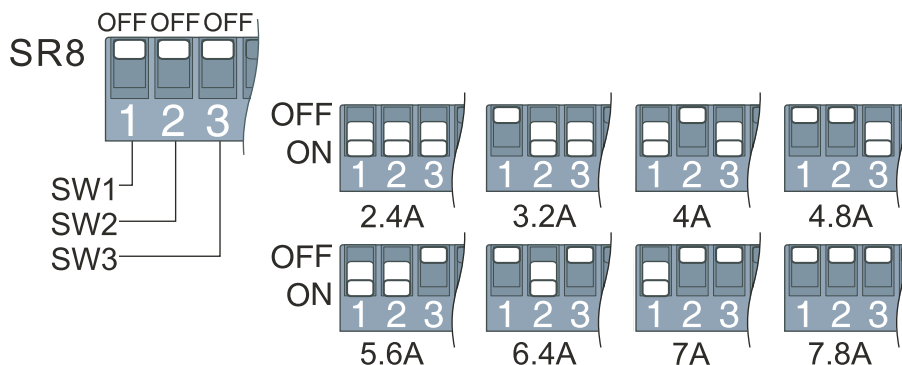


## Selection Switches



## Running Current

The output current of the SR8 Step Drive is set by the SW1, SW2, and SW3 switches and can be changed as necessary. There are 8 settings available according to the ON/OFF combination of the switches.



## Idle Current

The running current of the SR8 drive is automatically reduced anytime the motor isn't moving. Setting the SW4 switch to ON reduces the current to 50% of its running value. Setting this switch to OFF maintains 90% of the running current. This 90% setting is useful when a high holding torque is required. To minimize motor and drive heating it is highly recommended that the idle current reduction feature be set to 50% unless the application requires the higher setting.

## Microstepping

The microstep resolution is set by the SW5, SW6 and SW7 switches. There are 8 settings.



## Self Test

Setting switch SW8 to ON after the drive is powered up will cause the drive to perform a self test move of 2 revolutions both CW and CCW at 1rps. Setting switch SW8 to OFF disables this feature.

## Safety Instructions



- Only qualified personnel should assemble, install, operate, or maintain this equipment.
- Read all available documentation before assembly and operation.
- It is vital to ensure that all system components are connected to earth ground.
- This product contains electrostatically sensitive components that can be damaged by incorrect handling.