Blue Point Engineering

Instruction I

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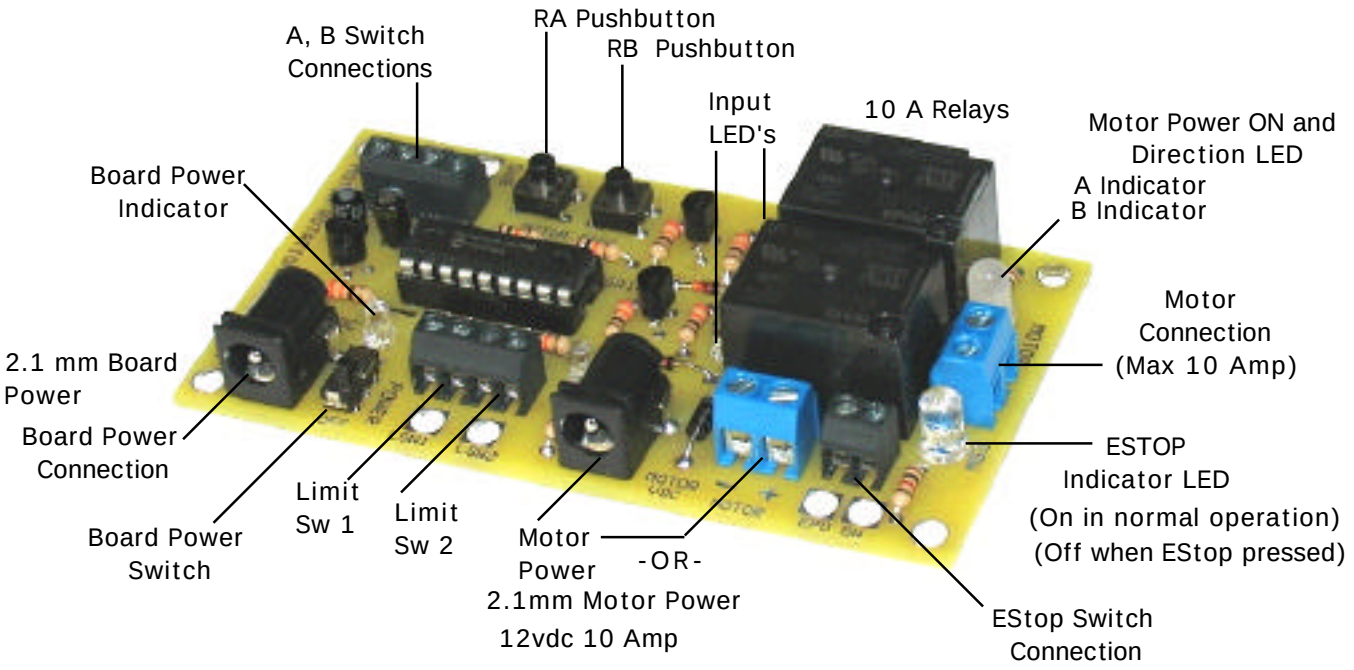
Switched - Signal Controlled Motor Controller Board



Description:
This unique board was designed to allow the directional control of a 12V DC Linear (In / Out or standard CW / CCW) DC motor by a dry contact closure (Switch / remote relay) at either the on-board AA or BB Switch Connector terminal block or by pressing the adjacent on-board pushbuttons RA / RB.

When a signal (Switch / Relay closure) is present at either one of the control terminal blocks (or button), the motor will run in the associated direction (CW or CCW). When a signal is not present, the motor will not run. When the motor is moving in one direction, the other directional input is ignored until the current input signal is stopped. There are 2 limit switch inputs, one for each direction, which should be hooked to N.C. dry contact closure-type switches. When a limit switch is opened, it will stop or prevent movement in the associated direction. (CW / CCW, Linear Movement IN / Out)

The on board electronics is powered from a DC source of 12-VDC, 100 mA minimum. Power to the board controlls can be applied via the 2.1mm barrel-type connector and is indicated by a red LED. Power for the motor should be 12VDC at a current applicable (10 Amp max) for the motor attached. It is applied via the 2.1mm Motor Power connector or the adjacent 2-position wire terminal blocks. A red LED next to the Motor Power connector indicates that motor power is present. Adjacent to the Aux Motor Power Terminal Block, there is a terminal block for the connection of an Emergency Stop Switch (Estop, EPO Button). An LED indicator will show if the EPO switch has been activated, as the LED will turn OFF when the EPO switch has been triggered. When this is activated all power to the motor is immediately stopped. A Tri-Color LED located next to the motor connection terminal will indicate that there is power to the motor and what direction the motor will travel by the LED color RED / GREEN.

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