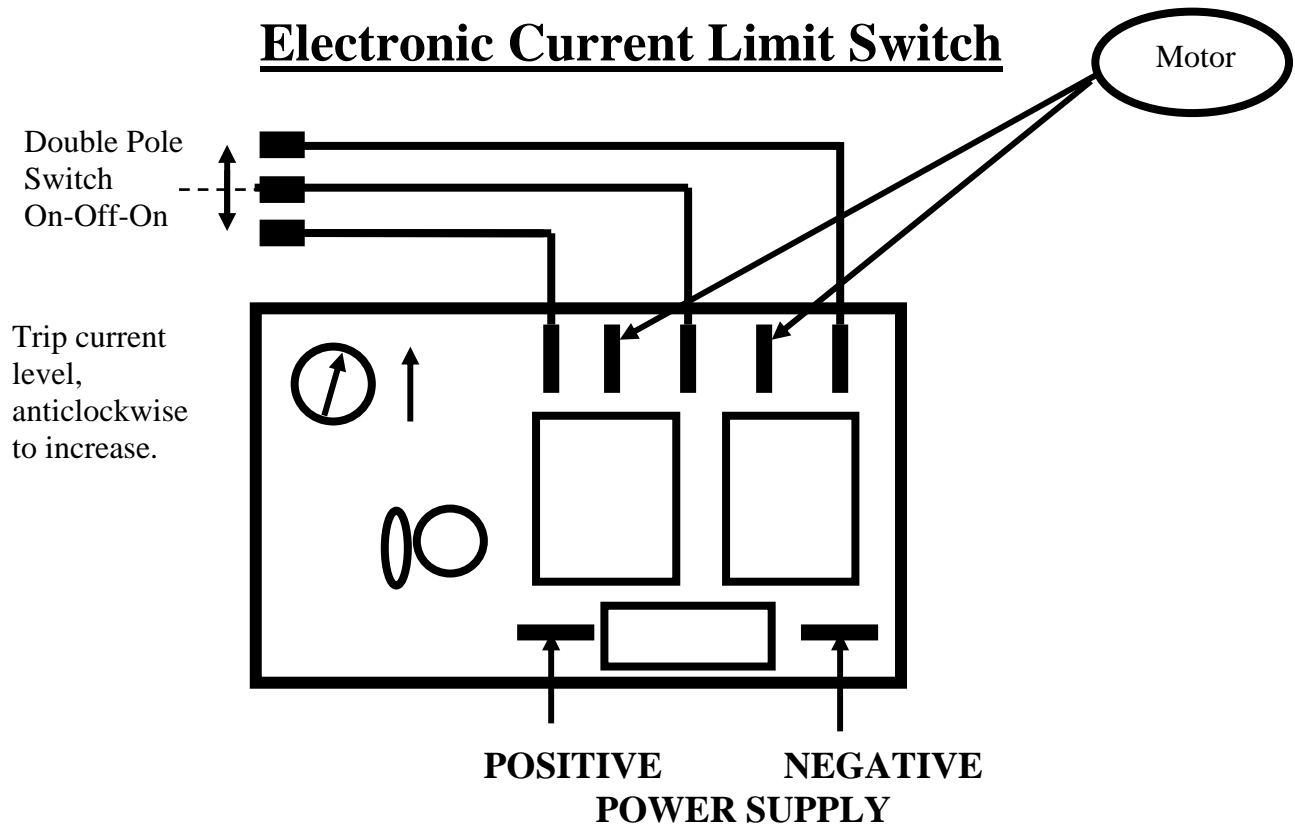


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Electronic Current Limit Switch



This circuit designed by Hollin Applications uses an input signal to switch the direction of a linear Actuator. The double pole switch changes relays in a H-Bridge configuration which changes the direction of current flow and shorts the D.C. Motor when switched off. This ensures a minimal amount of overrun on the Actuator. This circuit automatically converts the low power input signal to the high current motor drive.

In addition to the above features this circuit will also switch off the Actuator motor at a pre-determined current level. This can be adjusted easily by turning the knob on the onboard potentiometer. Anti - clockwise increases the force before switch off.

These circuits are specifically designed for Linear Actuator motors. The circuit mimics the start up and expected current curves from the motor. This is compared against the motor each time as it is running, should the motor current increase above the mimic curve then the motor is switched off. Open circuit the input switch for 1 msec. resets the trip latch.

Connection,	12 volts DC capable 8 Amps for motor.
Input Signals	Simple Single pole dual throw switch, or double push buttons
Terminations	All ¼" Spades for power and Actuator signal
Casing	Unit supplied resin filled for protection.
Current range.	1 to 8 Amps.
Actuator	Small hiwin LAS or Danaher LA1 Actuator
Protection	The circuit should be protected by external 10 Amp auto blade fuse.
Size	100 x 50 x 20 mm.

Title	ECLS 12 volt 8 Amp with Output	Date	13 July 2007
Dwg. Number	Hol4-Dwg6-024	Drawn	John Proud