



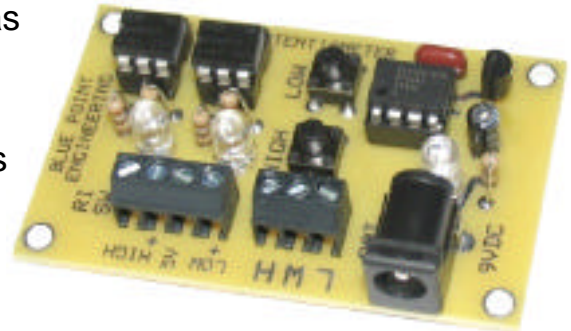
## Digital Potentiometer Board

*Controller*

### Digital Potentiometer Board

The Digital Potentiometer Board is a solid-state digital rheostat or potentiometer using the Dallas Digital Potentiometer series on board IC. The Digital Potentiometer Board can be controlled by remote switch contact closure inputs, a dry contact closure from remote relays or the on board momentary push buttons.

This device provides 64 possible uniform tap points over the entire resistive range on the potentiometer wiper.



The digital IC can be configured to operate from switch contact closures or a dry contact relay closures. The digital IC interprets input from these remote devices as pulse widths for controlling wiper movement. A single pulse input on one of the Potentiometer input terminals low or high will cause the wiper position to move 1/64th of the total resistance. Repetitive pulsed inputs can be used to step through each resistive position of the device in a relatively fast manner.

On board momentary push switches can be activated to move the potentiometer wiper up or down in resistance, as well as remote switches and relays can also adjust the up or down wiper resistance by connecting to the on board wire terminal blocks.

#### Notes:

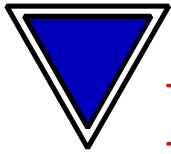
The maximum wiper current allowed through the Digital IC is **only 1 milliamps**.

There are 3 different resistive value Digital IC available

Digital IC 10K ohm version

Digital IC 50K ohm version

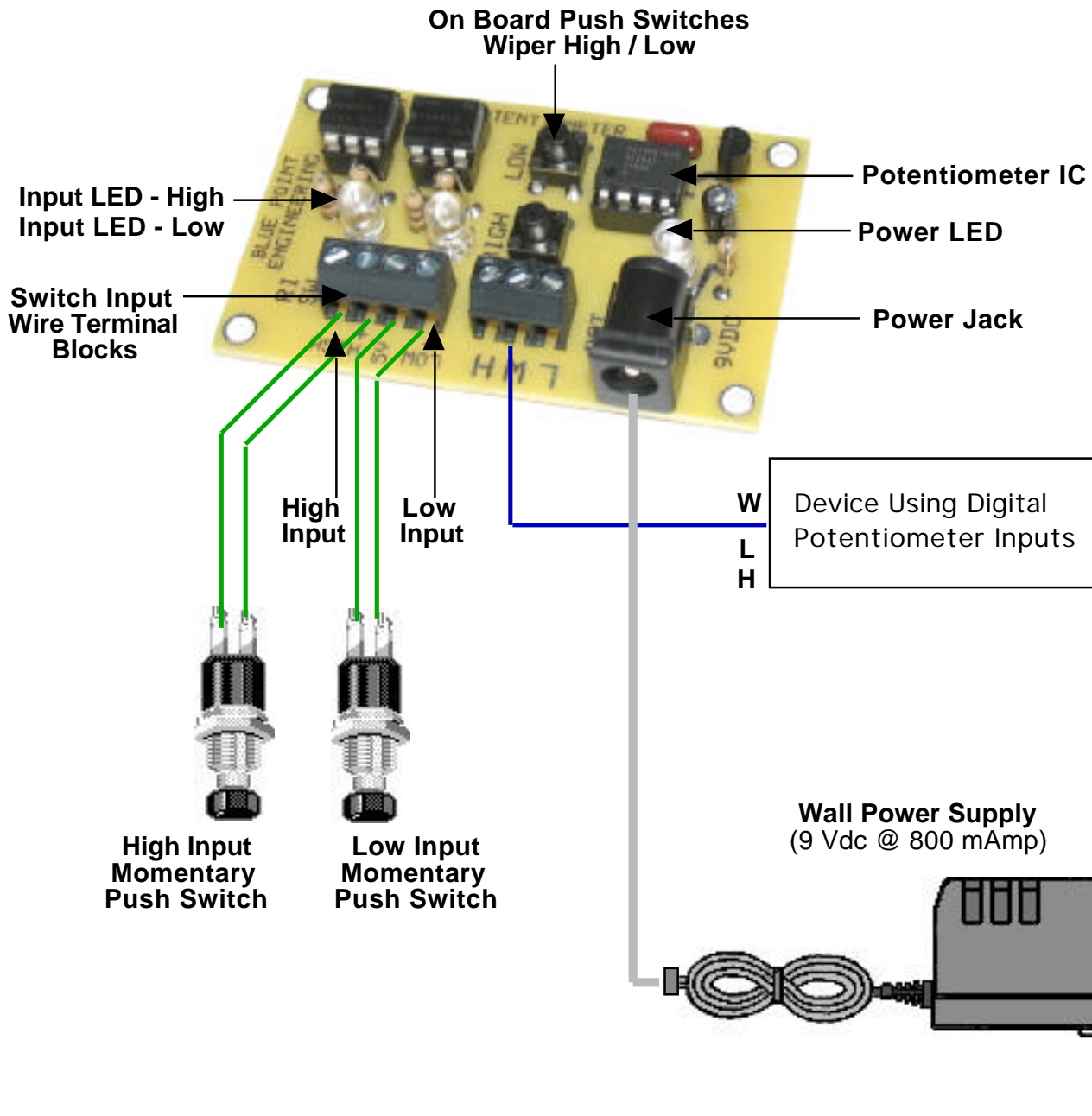
Digital IC 100K ohm version



## Digital Potentiometer Board

Controller

### SWITCH OPERATED CONTROL

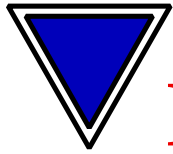


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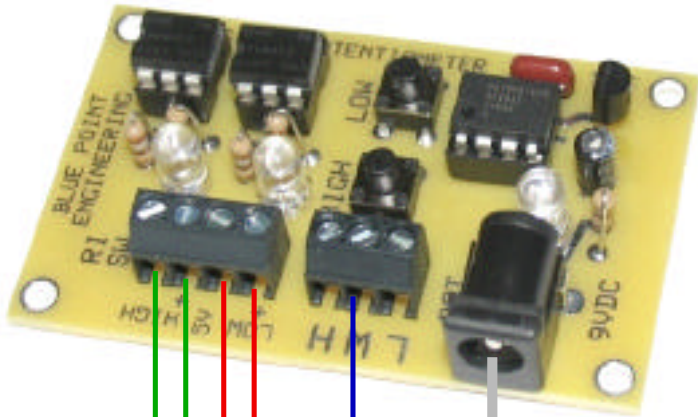
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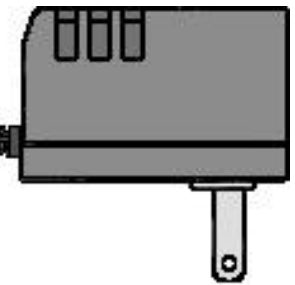
## Digital Potentiometer Board

Controller

### RELAY OPERATED CONTROL



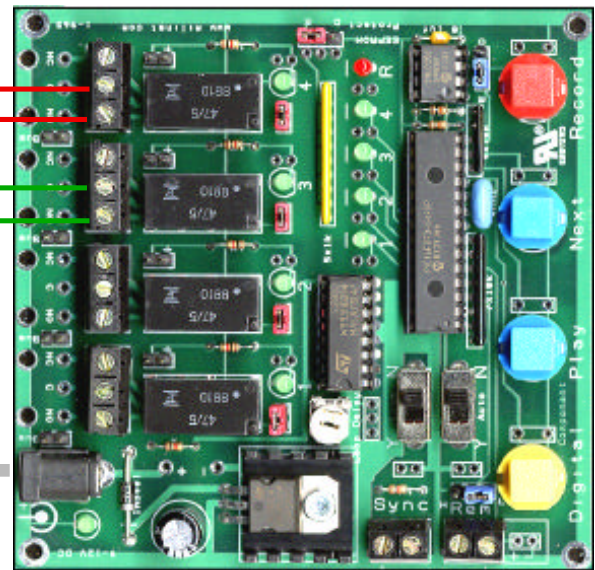
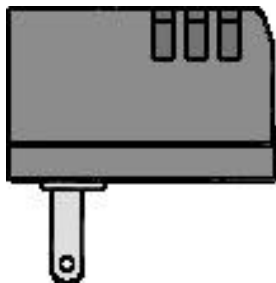
Wall Power Supply  
(9 Vdc @ 800 mAmp)



W  
L  
H Device Using Digital Potentiometer Inputs

COM  
N.O.  
COM  
N.O.

Wall Power Supply  
(9 Vdc @ 800 mAmp)



Wizard-4 Controller

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