Circuitron
Electronics for Model Railroads
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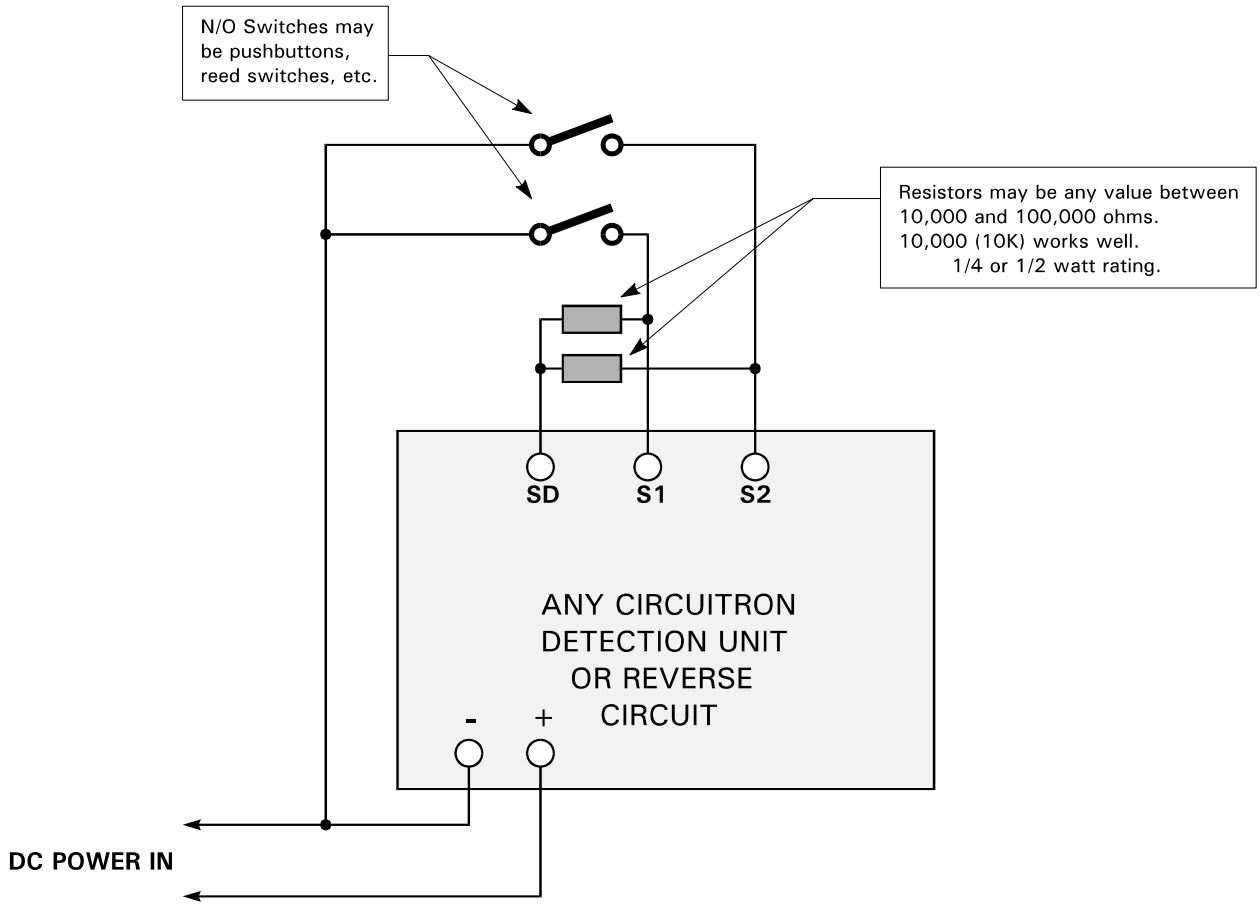
AN-0001

ACTIVATING CIRCUITRON DETECTION CIRCUITS WITH EXTERNAL SWITCHES



After completing the wiring, apply power to the board. Follow the adjustment procedure outlined in the instructions supplied with the detection unit or reverse circuit. After adjustment, the indicators on the circuit board should be *OFF*. If you are using a detection unit that has no indicators on-board, you will have to temporarily connect a test light or grain of wheat lamp to the output(s) to monitor the status and allow you to complete the adjustments. Activating the momentary switch should then bring the output *ON.*

DISABLING AN OPTO-SENSOR INPUT

If an optical input terminal on a Circuitron product is *not* connected to an Opto-Sensor, the board will interpret this as a "covered sensor" regardless of sensitivity trimmer position. this may leave the output of the circuit constantly "ON". To disable an input, connect a resistor between SD and the sensor terminal (S1, S2, SA, SB, etc.). 4.7K—10K, 1/4 or 1/2 watt will work well. Then adjust the sensitivity trimmer following the circuit's instructions. The output or indicator LED will go on and off as you adjust– just as if an Opto-Sensor was connected. Note which way you are rotating the trimmer when it switches from ON to OFF. Then rotate the trimmer *fully* in that direction until it stops. The input should then be disabled.