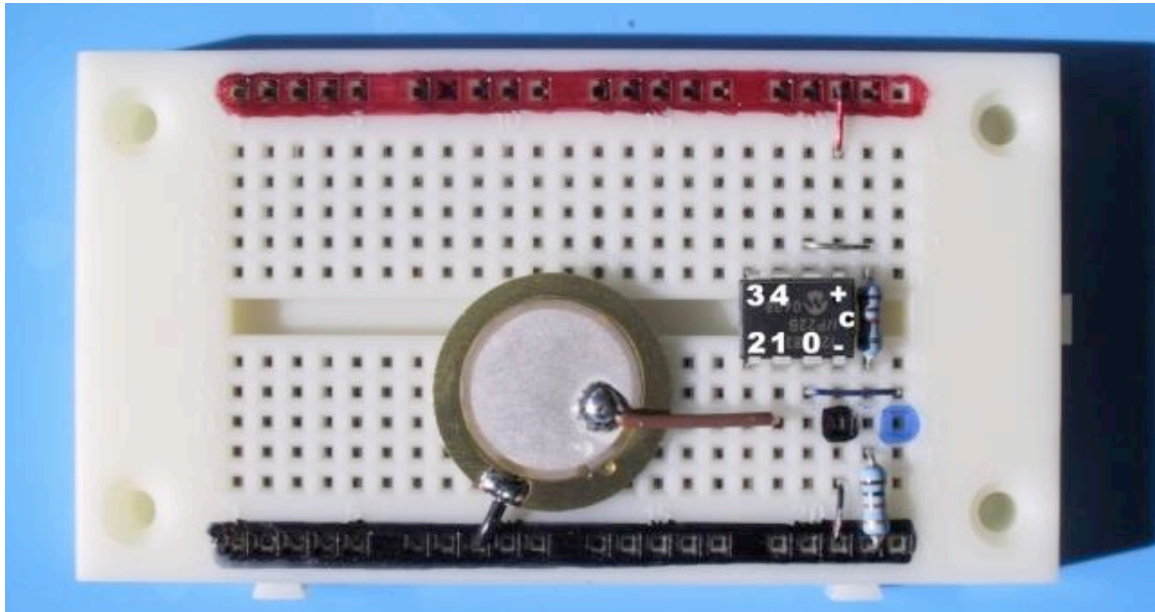


Piezo Sensor



loopa:

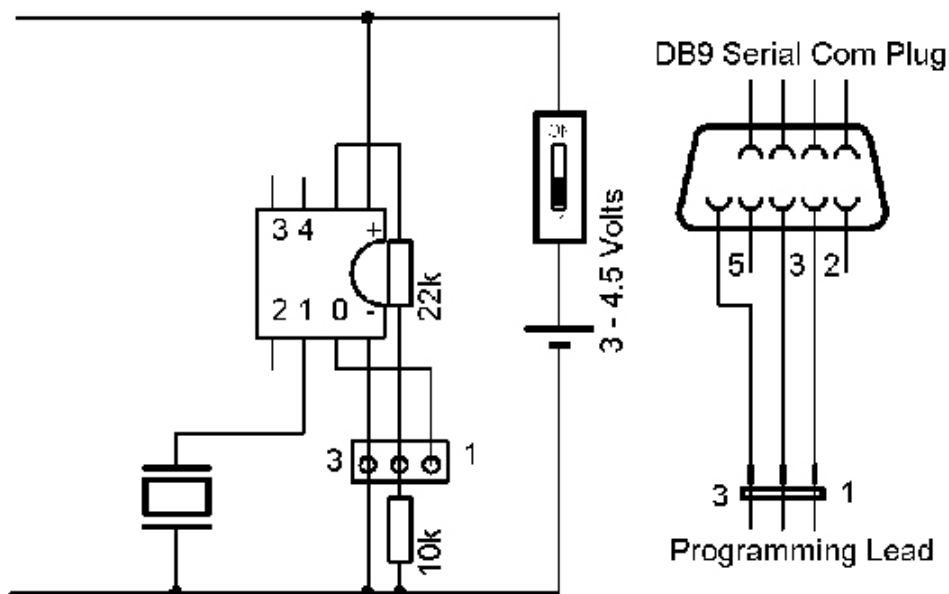
readadc 1, b1

sertxd (#b1,13,10)

goto loopa

'Read the adc voltage (scaled 0 to 255) on pin 1 into byte b1

'Output byte b1 to the F8 Serial Terminal window at 4800 baud + CR LF



- Use then Help section Manual II to look up the readadc and sertxd commands
- Voltage from piezo is proportional to rate of *CHANGE* in strain on the element
- A 100nF capacitor can be placed across the element to “de tune” the output and increase the time the voltage stays across the piezo for up to 30 seconds to a minute.
- Use readadc10 to compensate for the capacitor or to increase the sensitivity
- When bonded to a flexible surface such as a door mat, animal walkway, plastic ruler this device is Extremely sensitive to force, vibration and movement. Try readadc10 !!!
- The piezo makes a simple and effective movement detector, accelerometer, seismograph, or simple strain or pressure gauge
- Take care when soldering the silver metalised pad. Flexible wire is best. Pre tin and VERY quickly solder the silver metalised contact connection or it comes away from the piezo surface.
- Turn the picaxe pin to an OP to zero the charge and then turn it to an input to start measuring.