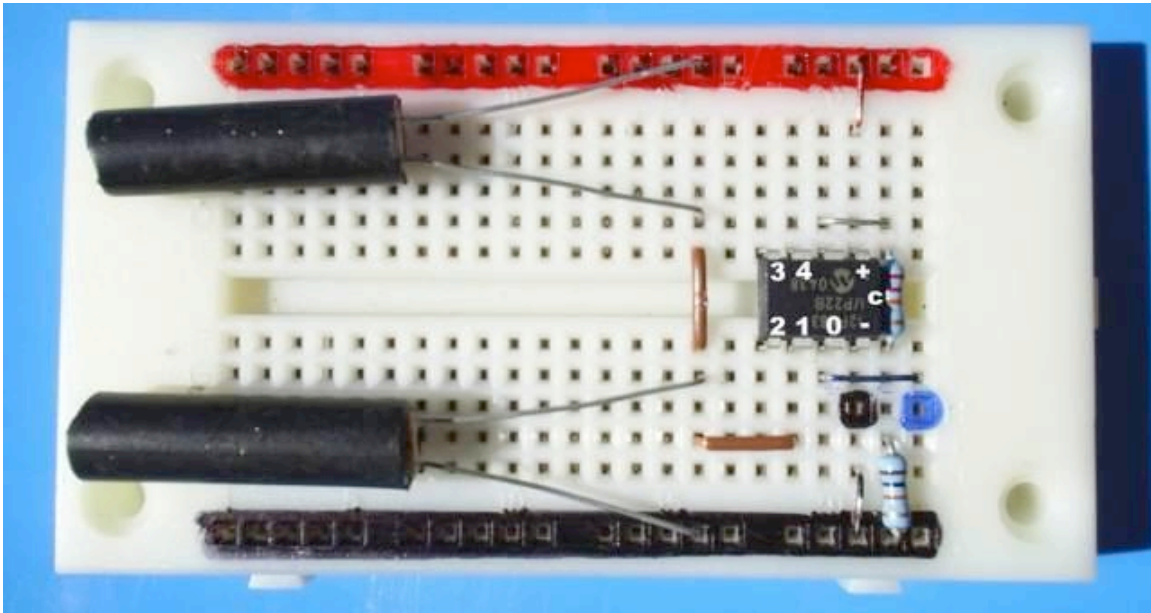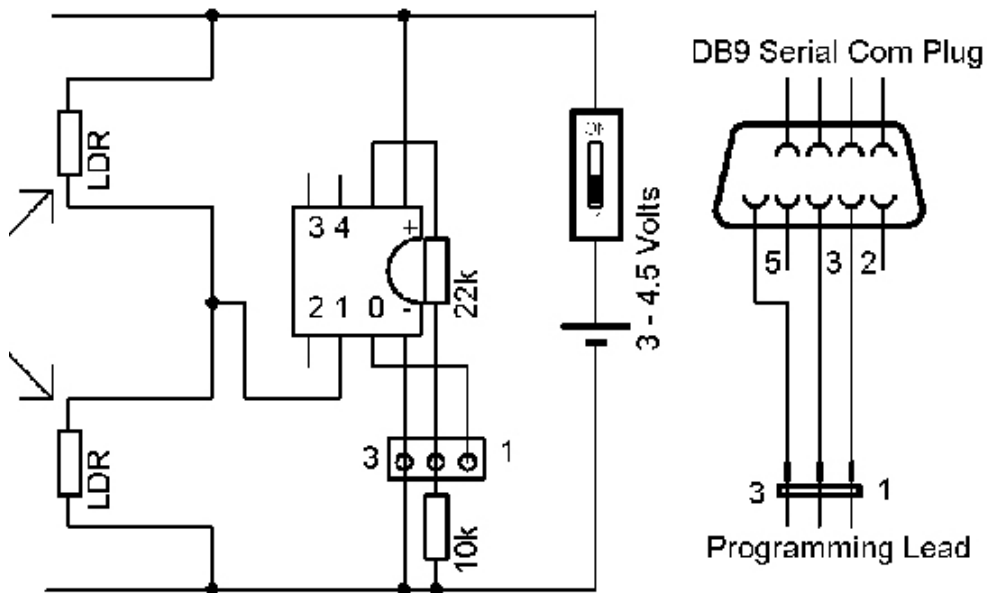# LDR Eye Sensor


```
loopa:
readadc  1,  b1
sertxd ( "Light Difference is now = ", #b1, 13, 10 )
goto loopa
```


- Pin 1 voltage stays at approx half Vcc over so readadc approx 128
- This circuit automatic compensates for a wide range of ambient light levels as the LDR resistances will always be the same as long as the same light intensity falls on both LDR's
- The voltage rises or falls depending on the DIFFERENCE in light on the 2 LDR
- Tubes placed over the LDS's can make this circuit very spot sensitive focused over several meters
- The DIRECTION of movement can be detected and differentiated to count E.g. In and Out movement
- Techniques are available to uAmp standby power this circuit or to measure ABSOLUTE light level
- Thermistors can be used in the same way to make a very sensitive temperature heat tracker
- Readadc10 can be used to increase the sensitivity by a factor of 2 bits (4x)