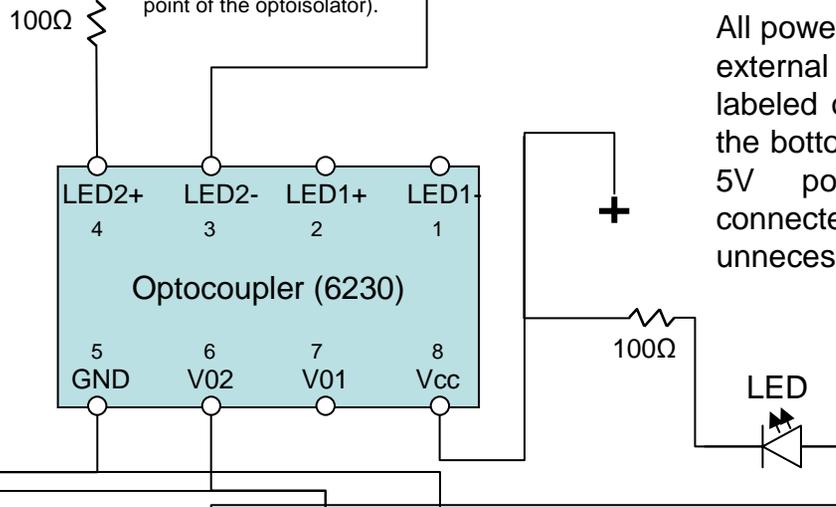


The "clapper LED high rail" is where the **red** wire is attached in this image; this is a common power line that feeds that 3 LED's. The **green** wire is attached to the "2-clap LED ground side", which is the signal from the IC that controls the 2-clap LED. We snipped out all 3 LED's to save current.

Clapper LED high rail Clapper 2-clap LED ground side

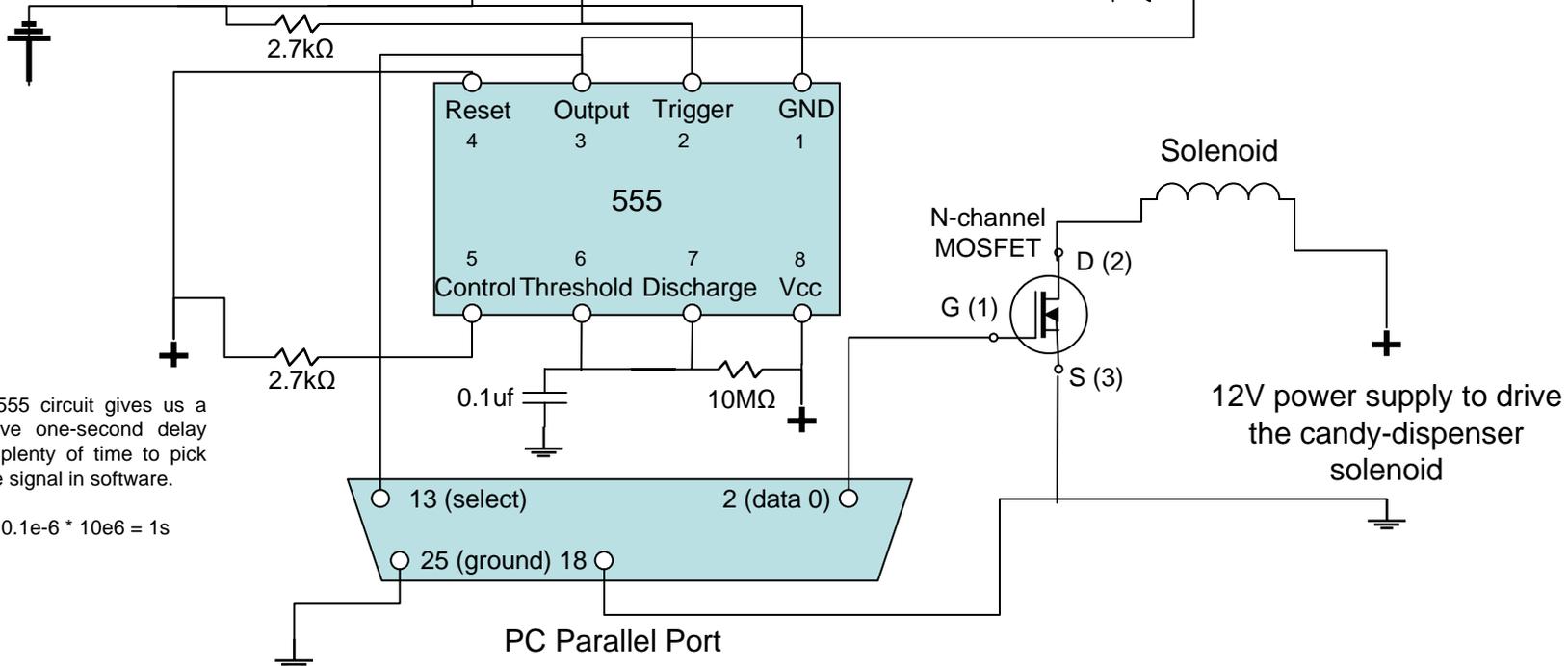
Be careful! These signals are only 5V apart but sit many many volts above ground (that's the point of the optoisolator).



Life-Size Candyland Circuit

Dan Morris, Augusto Roman

All powers and grounds go to a single external 5V power supply unless labeled otherwise (the 12V supply at the bottom-right is labeled otherwise). 5V power and ground were connected through a probably-unnecessary .01uf bypass capacitor.



This 555 circuit gives us a massive one-second delay time, plenty of time to pick up the signal in software.

$$R \cdot C = 0.1e-6 \cdot 10e6 = 1s$$