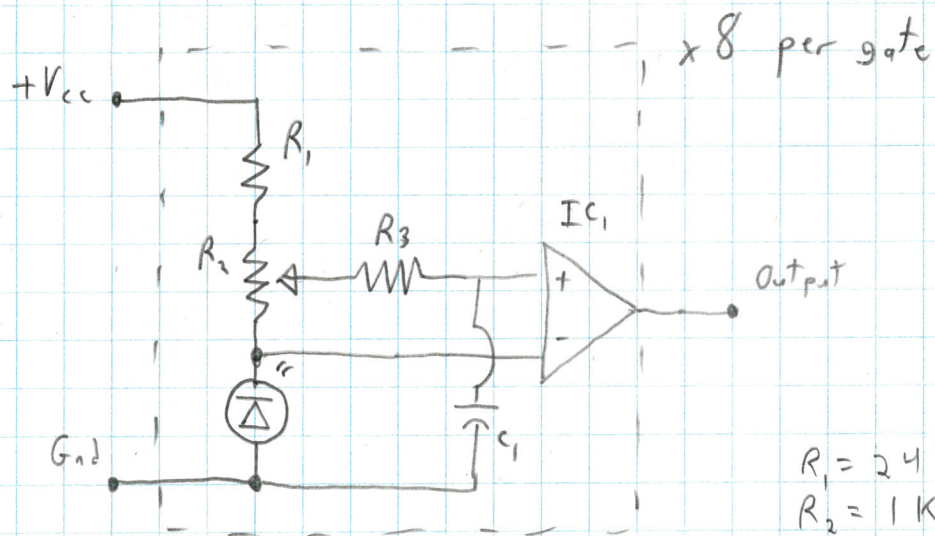


# Sensor Array



Logic:

No object detected  $\rightarrow$  Output is high  
 Object detected  $\rightarrow$  Output is low

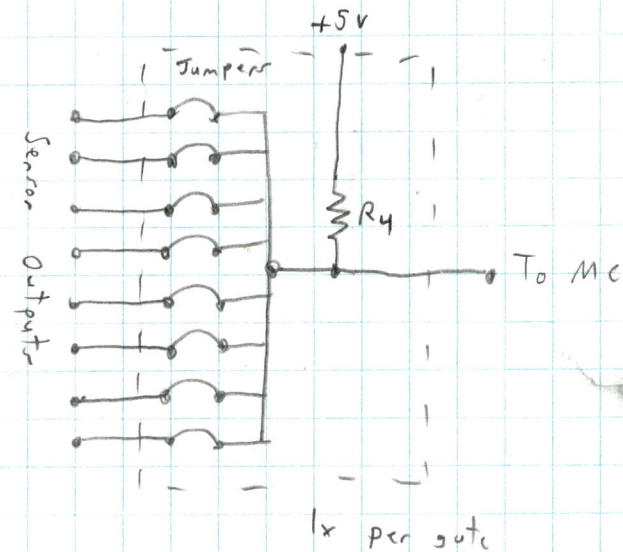
$$R_1 = 24 K\Omega$$

$$R_2 = 1 K\Omega$$

$$R_3 = 330 K\Omega$$

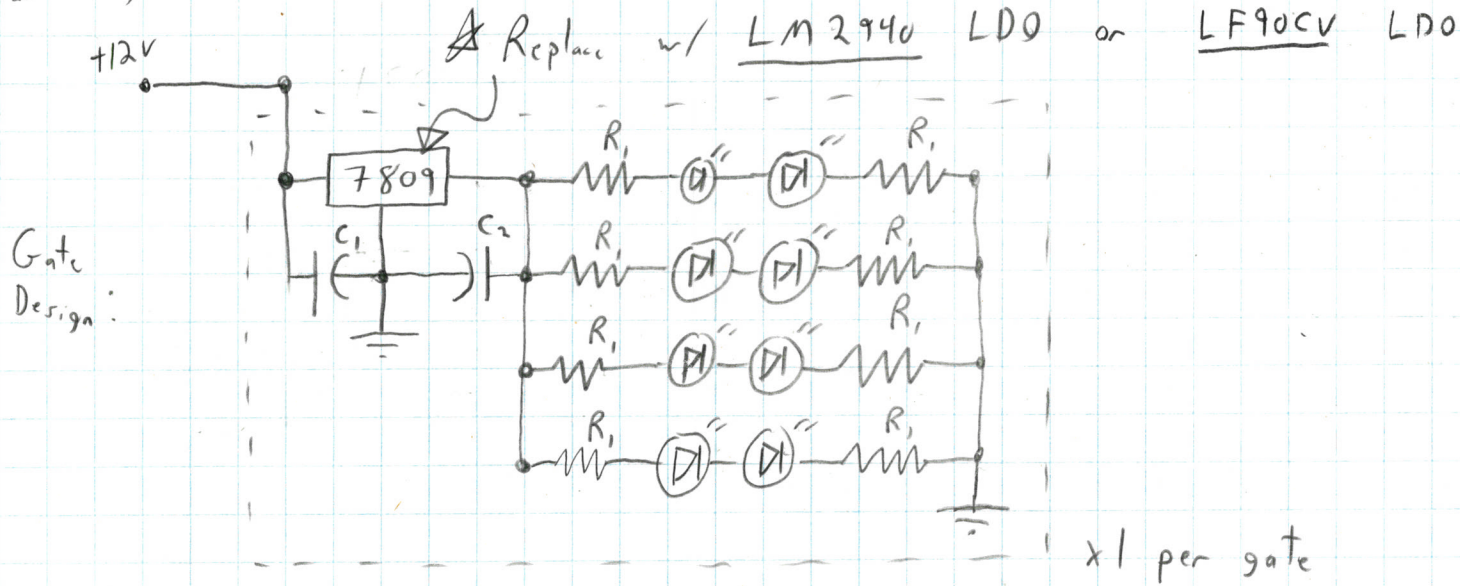
$$C_1 = 0.22 \mu f$$

$IC_1 = LM339$  Comparator



$$R_4 = 330 K\Omega$$

Emitter Array



$C_1 = 22 \mu f$  electrolytic  
 $C_2 = 220 \mu f$  ceramic  
 $R_1 = 30 \Omega$   
 LED: TJHF5410  
 - 100mA @ 1.4V  
 - 890nm  $\lambda_p$

	7809	2940	LF90CV
$V_{Dropout}$ :	2V	0.5V	0.7V
SVR :	72dB 120Hz	64dB 120Hz	71dB 120Hz

★ Add DC-DC Boost Converter to supply sensor arrays (30-40V)

