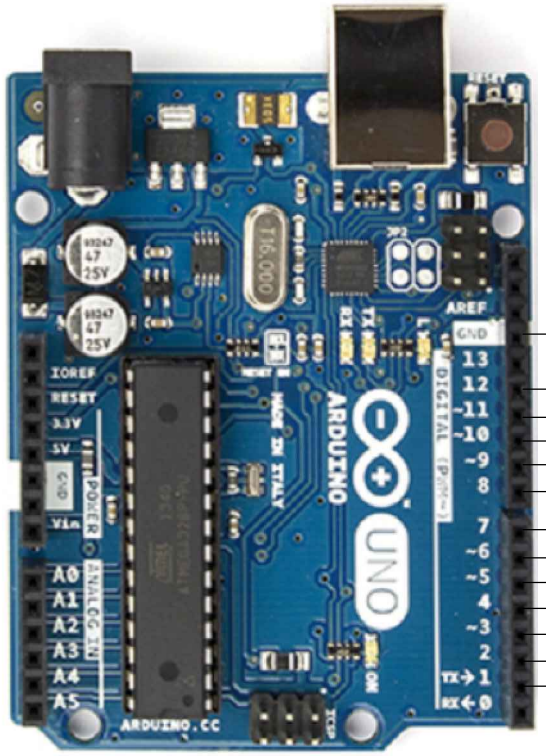
K9 Control Panel lighting using Arduino Uno

USB Plug to 5vdc supply minimum 300mA.
This will power Arduino and Control Panel LED's.

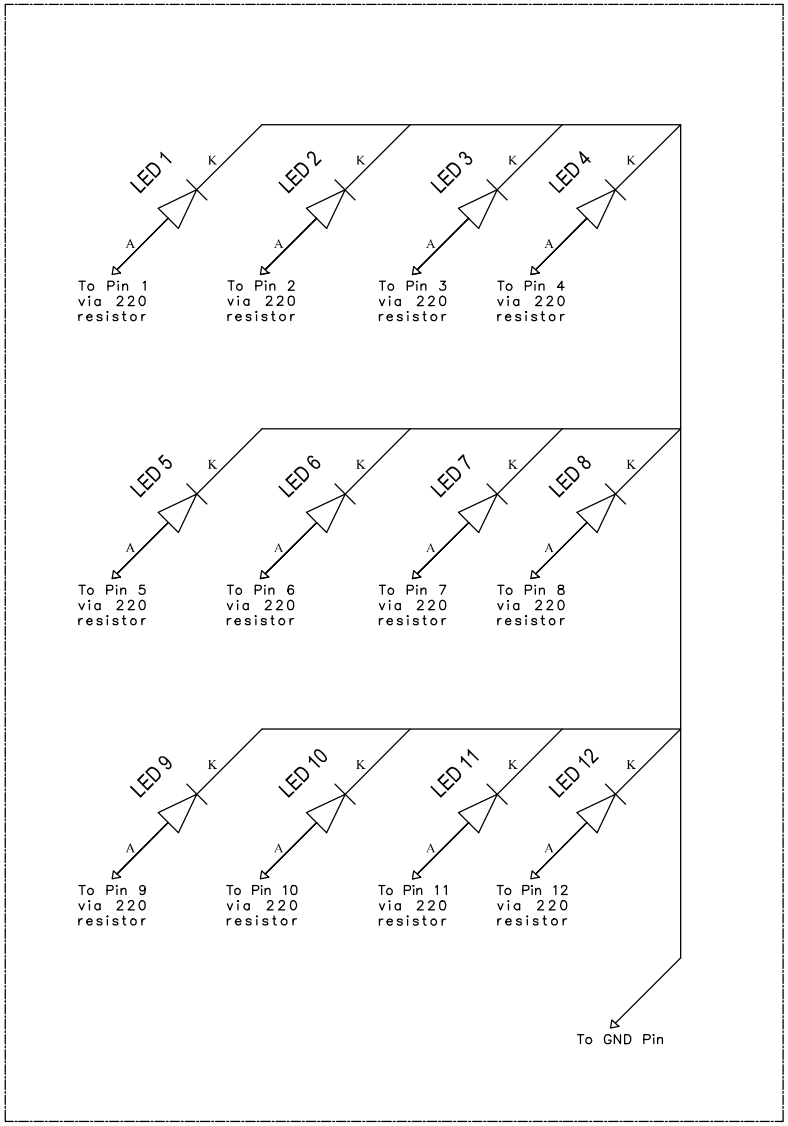


To Cathode of all LEDs

220 Ω	To Anode LED 12
220 Ω	To Anode LED 11
220 Ω	To Anode LED 10
220 Ω	To Anode LED 9
220 Ω	To Anode LED 8
220 Ω	To Anode LED 7
220 Ω	To Anode LED 6
220 Ω	To Anode LED 5
220 Ω	To Anode LED 4
220 Ω	To Anode LED 3
220 Ω	To Anode LED 2
220 Ω	To Anode LED 1

Components:
12x 220 Ω 0.25w Resistors
12x 5mm LEDs 400–1000 mcd 20mA (white LEDS if switches fitted with coloured lenses.)
1x Arduino Uno or clone.

Note:
Resistance calculated to limit current to 20mA at 5Vdc for a typical 5mm LED.
Depending on LED selected resistance value can be changed to alter brightness.

Keep in mind the maximum current output at each pin on the Arduino is 40mA.

Control Panel LED arrangement .
Look from top