+12V

LED1

R5
100k

Q1
2N3904

R6
1k

Overvoltage Protection

Trigger IN

R1
100k

R3
10k

ZD1
5.1V, >1W

CV Amount

Quantity CV IN

RV1
1k

R2
100k

R4
10k

ZD2
5.1V, >1W

Unity gain buffer

R7
10k

+12V

U2
uA741

R10
1k

OUT

Quantity

+5V

C1
1uF

RV2
1k

R8
100k

+12V

R9
1k

Q2
2N3904

LED2

Distribution

+5V

C2
1uF

RV3
1k

U1
ARDUINO UNO

24	A5
23	A4
22	A3
21	A2
20	A1
19	A0

D0	11
D1	12
D2	13
D3	14
D4	15
D5	16
D6	17
D7	18

+12V

32	VIN
31	GND
30	GND
29	5V
28	3V3
27	RESET
26	IOREF
25	POWER

+5V

D8	1
D9	2
D10	3
D11	4
D12	5
D13	6
GND	7
AREF	8
SDA	9
SCL	10

References

https://www.electroniclinic.com/input-overvoltage-protection-for-arduino-inputs-using-a-zener-diode/

https://www.electricrcaircraftguy.com/2015/06/arduino-quick-tip-io-pin-overvoltage-protection-w-single-resistor.html?m=1

https://forum.arduino.cc/t/adding-capacitor-to-potentiometer/494971

https://www.ti.com/lit/ds/symlink/ua741.pdf > "8.2 Typical Application"