

EFUSE

Antwerp Space

WAT IS EEN EFUSE

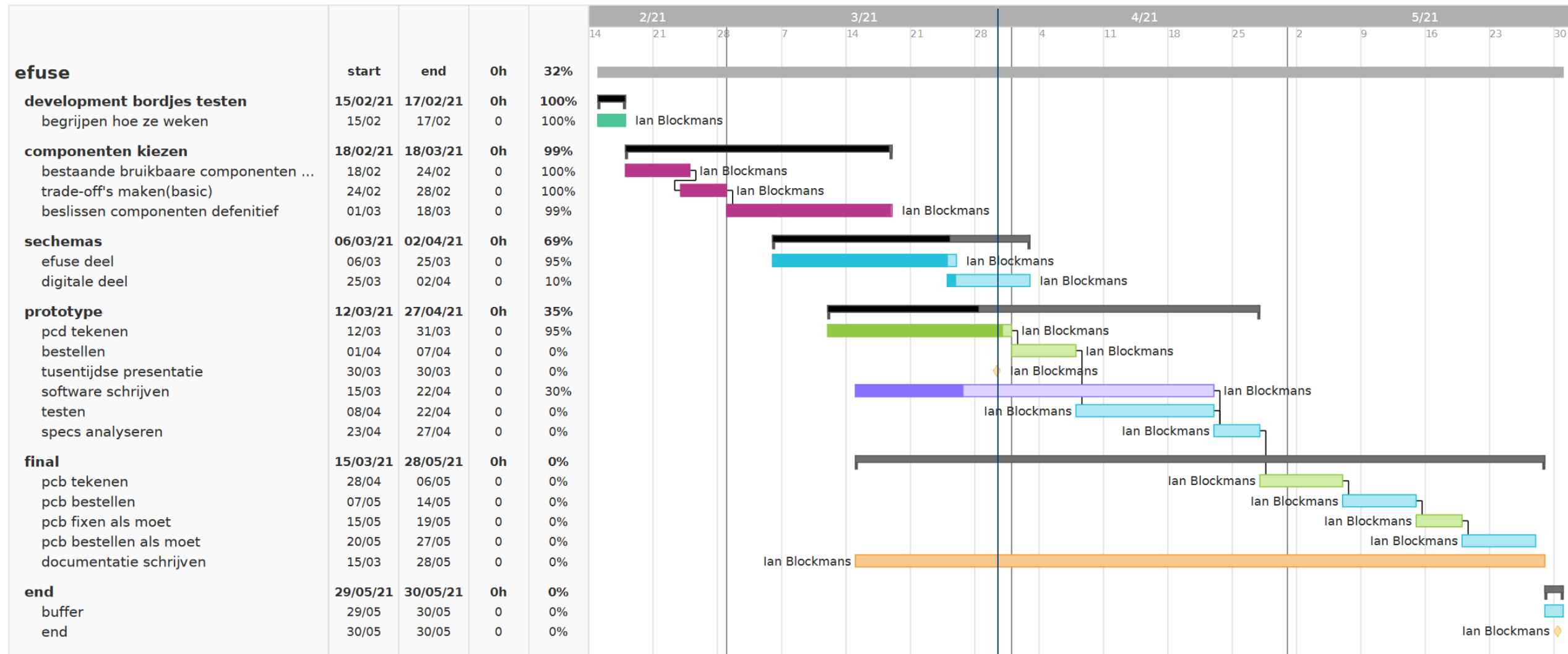
- Voltage limit
- Under voltage dropout
- Current limit
- Reverse polarization protection
- Soft start
- ON/OFF switching
- Current monitoring

DOEL

- Extra laag veiligheid
- Gemaakt naar voedingen met LCL klasse 1,2 en 3.
- Mogelijkheid voor 5V, 12V en 22V tot 38V

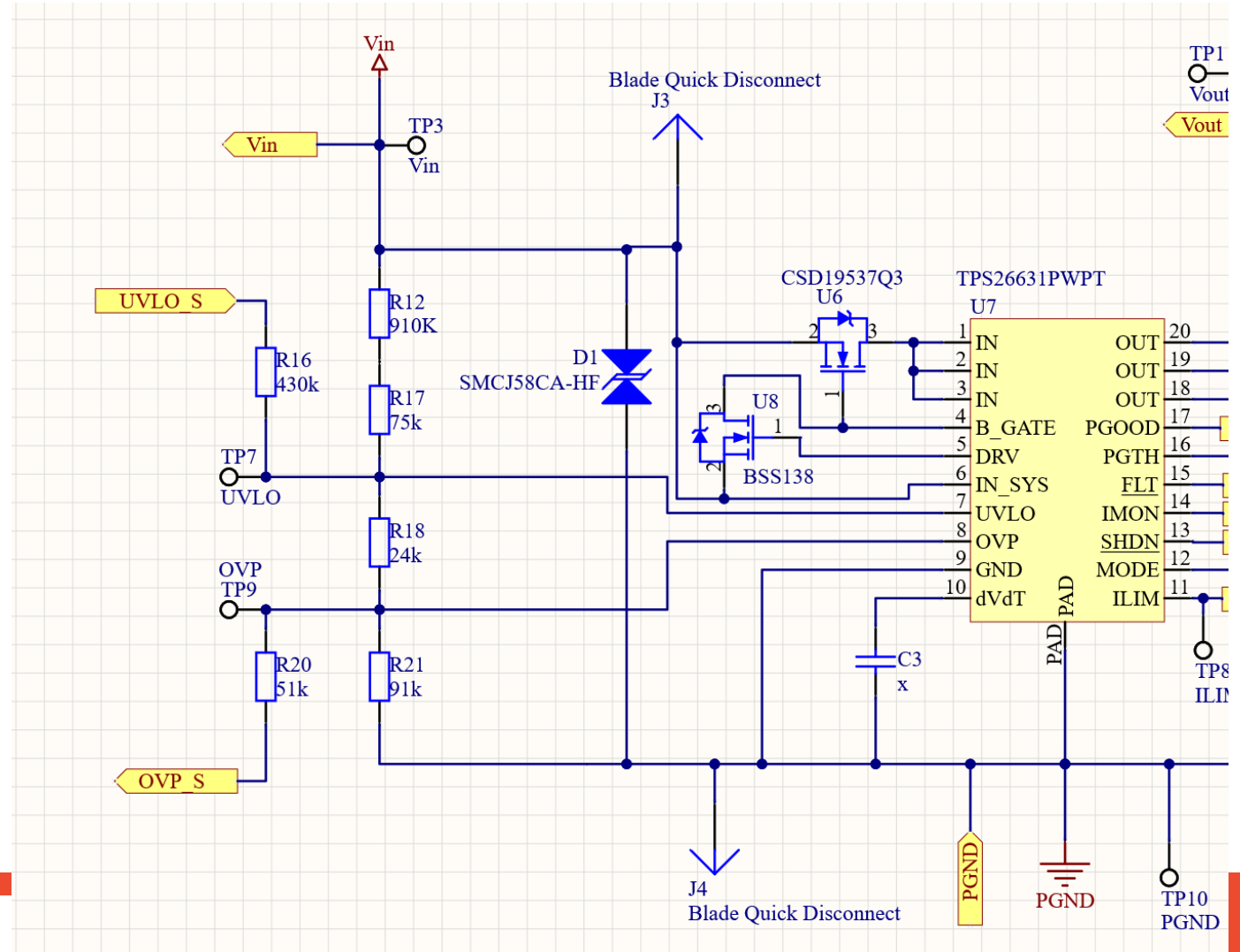
Characteristic	LCL class							
	1	2	3	4	5	6	8	10
Regulated Bus voltage [V]	28							
Unregulated Bus voltage [V]	22 to 38							
Class current [A]	1	2	3	4	5	6	8	10
Min limitation current [A]	1,1	2,2	3,3	4,4	5,5	6,6	8,8	11
Max limitation current [A]	1,4	2,8	4,2	5,6	7	8,4	11,2	14
Trip-off min [ms]	10	10	6	6	4	2	2	1,5
Trip-off max [ms]	20	20	12	12	8	4	4	3

PLANNING



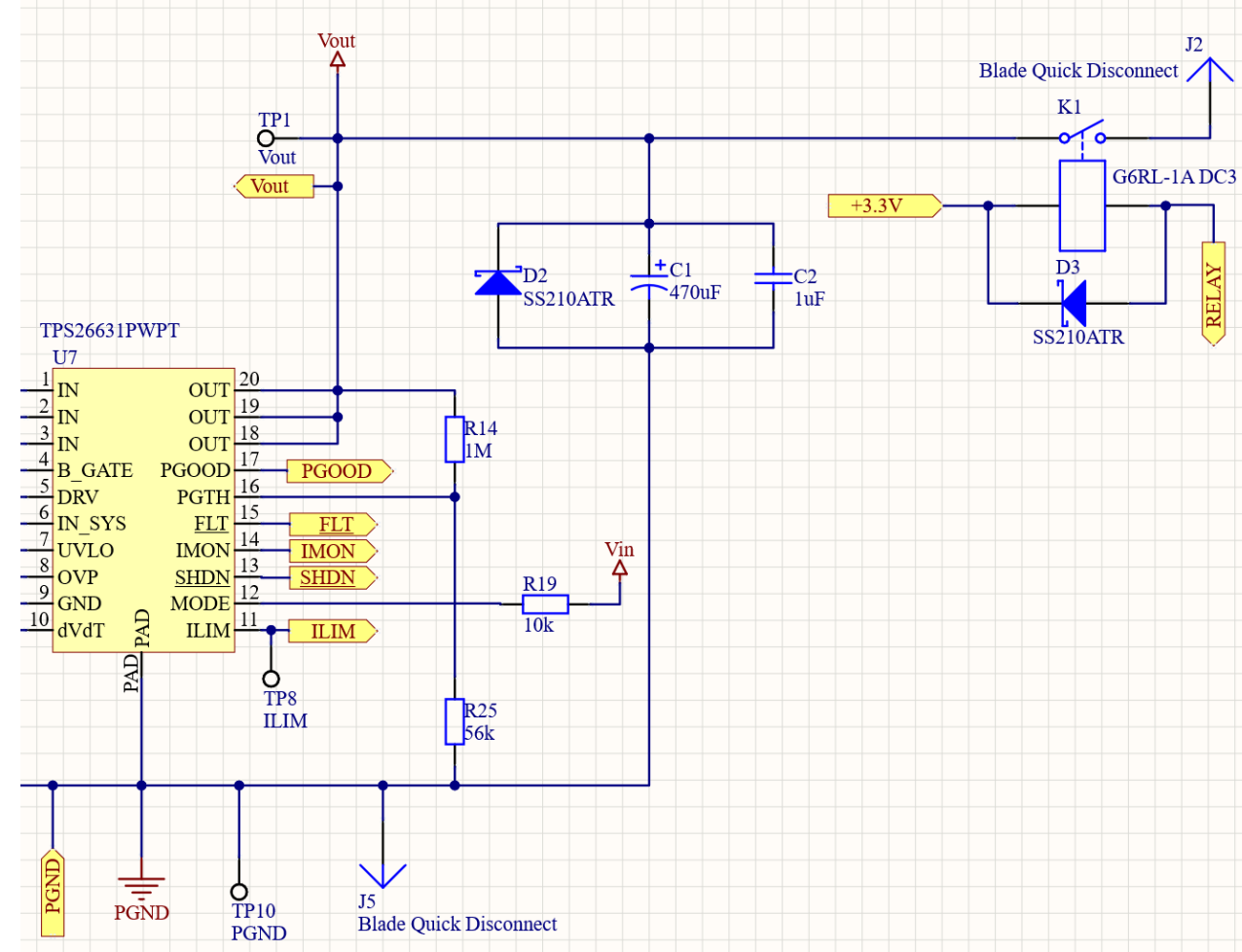
INPUT

- Instellen van voltage limits.
- Transient voltage protection.
- Reverse polarity protection.
- Inrush current control.



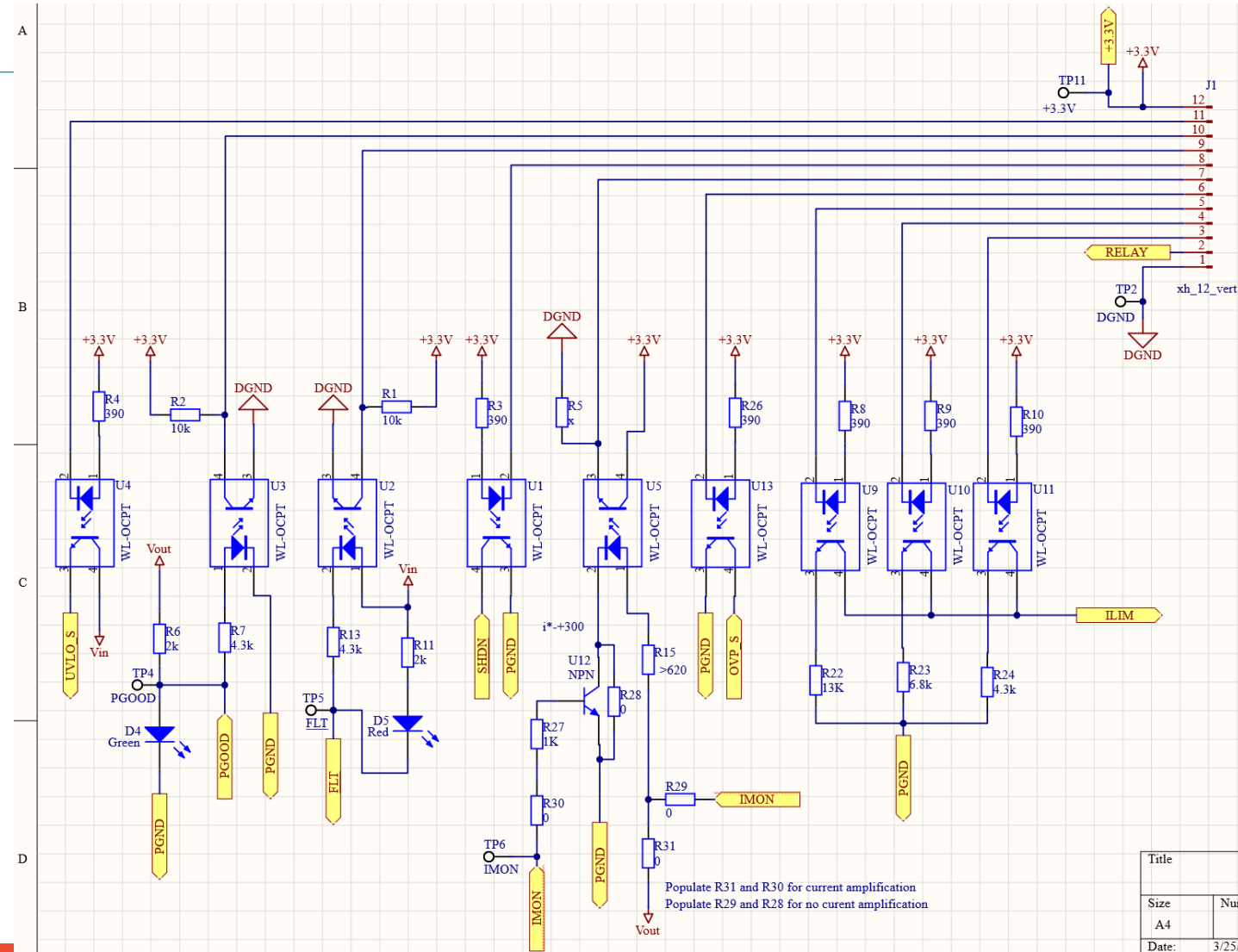
OUTPUT

- Power Good instelling.
- ESD protection.
- Mode/auto retry
- Output relay



DIGITAL

- Galvanisch gescheiden.
- Indicatie leds.
- Stroom meting.
- Stroom limiet.

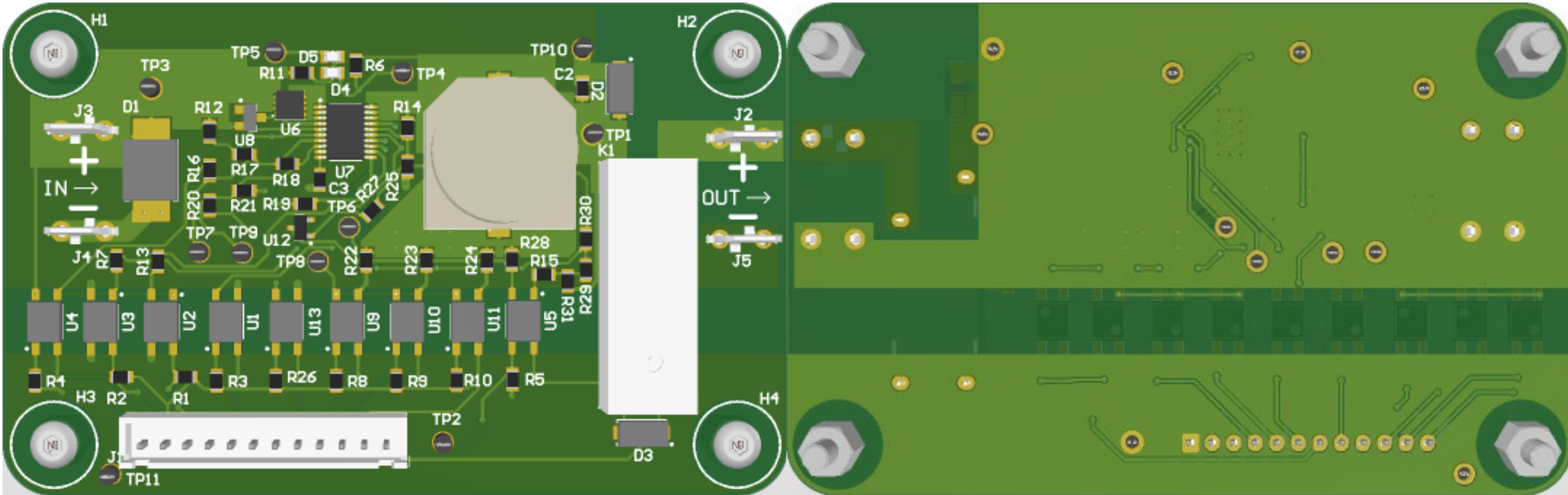


USER INPUT EN FEEDBACK

- Oled display
- joystick of rotary encoder
- USB Modbus -> LabView



PROTOTYPE PCB



VRAGEN?