

**I2C Pull-Ups**

Schematic showing two 4.7K resistors (R5, R6) connected to 3.3V and the I2C lines (SDA/4.1B, SCL/4.1B).

**Connector**

Four connector blocks (US4, US10, US11, US12) showing pin connections for P1\_VSYS, P2\_GND, P3\_3.3V, P4\_SCL, P5\_SDA, and P6\_P1. They are connected to ±5V, GND, 3.3V, and I2C lines.

**Cortex Debug/Program Connector**

Schematic showing a 10-pin connector (JP4) connected to the Cortex debug pins (VCC, GND, SWDIO/TMS, SWDCLK/TCK, SWO/TDO, KEY, NC/TDI, GNDTCT, NRESET, CORTEX\_DEBUGPTH) and external pins (SWDIO/4.1B, SWCLK/4.1B, RESET/4.2A).

**Reset**

Schematic showing a reset button (S2) connected to the RESET pin (RESET/4.2A) and GND.

**Input / Output**

Schematic showing various input/output components: VALVE\_GND, PUMP\_GND, GND, HEARTBEAT, RED, D18\_NEOPIX\_PA05, and a WS2812B LED strip. It includes resistors (1k, 330Ω, 470Ω) and connections to 5V, 3.3V, and GND.

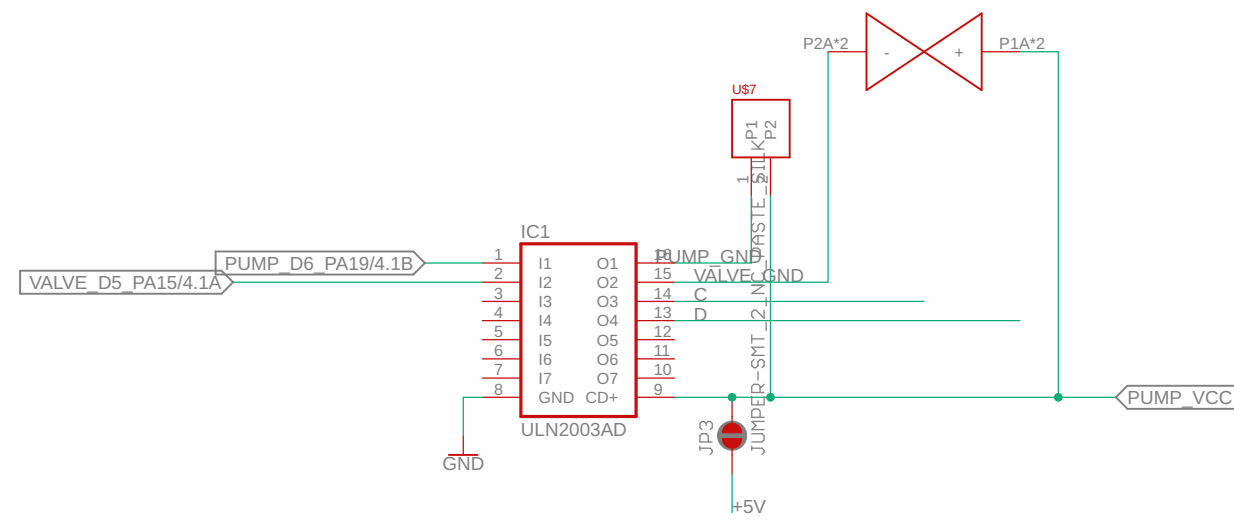
**ToDo:**

- graceful shutdown after pressing Membrane
- Testing SPI - Pi
- Charge LED issue
- LED's dimm issue
- evt LTC2955 oid checken anders met XOR?

**Sheet: 1/4**

Sheet: 1/4

# Pump / Valve Control



# Sensor

