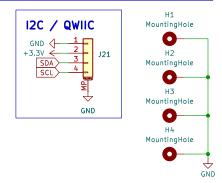
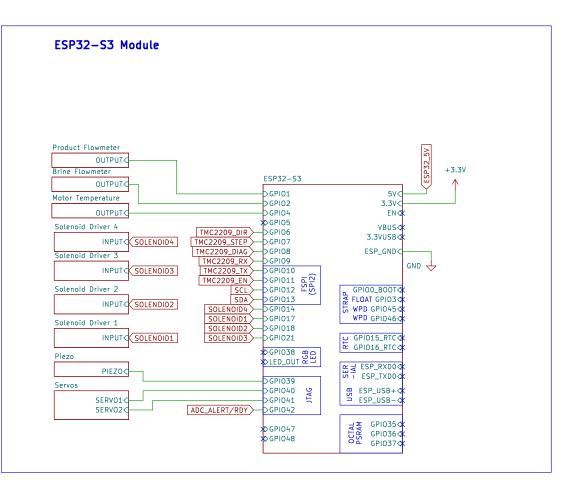


Power Supply



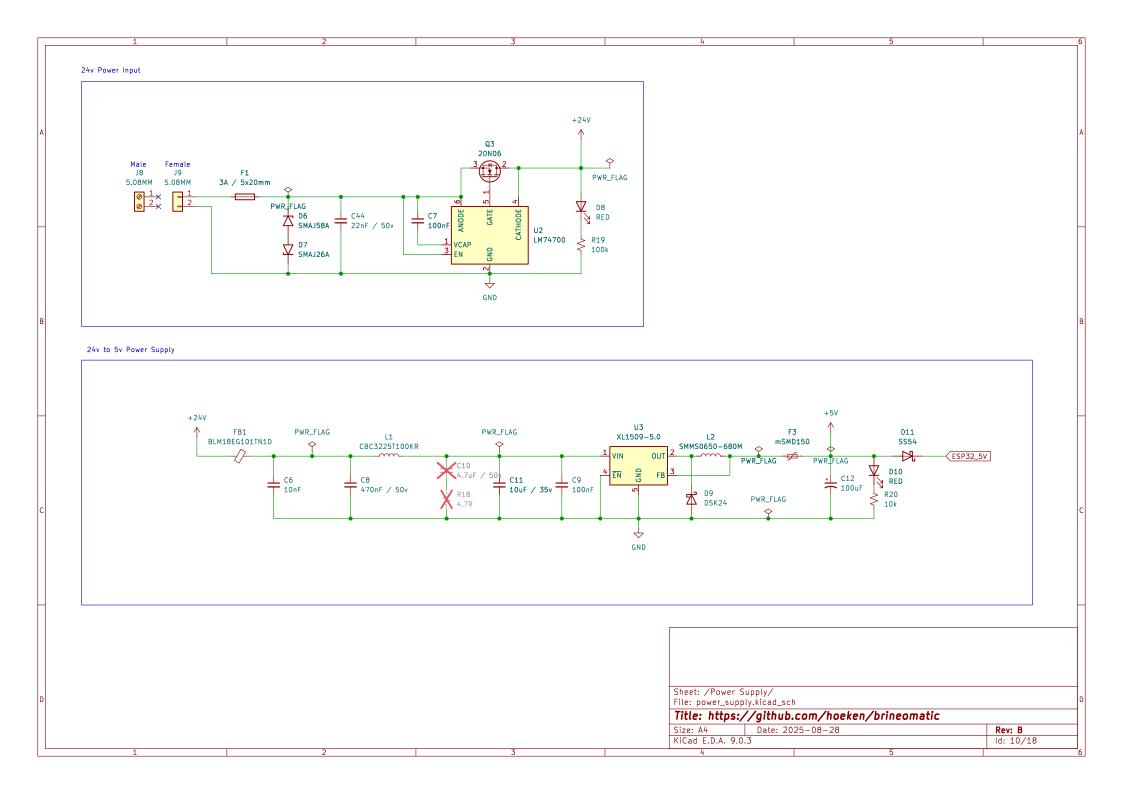


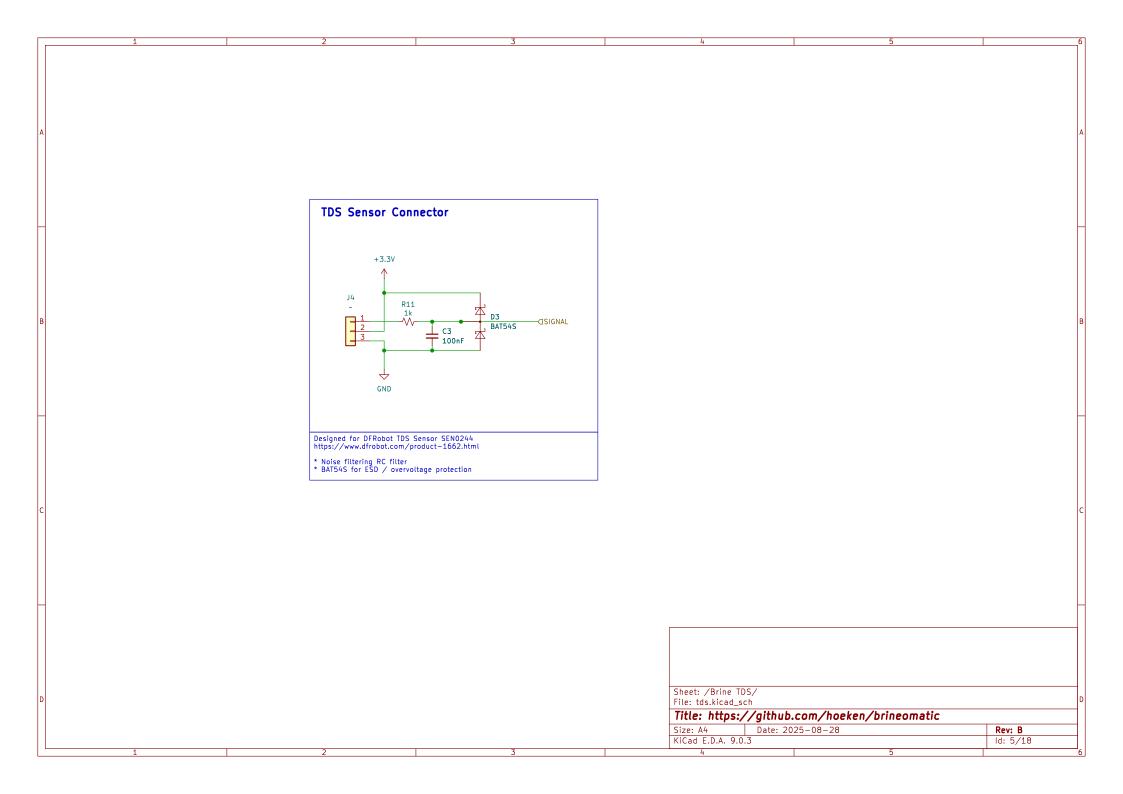


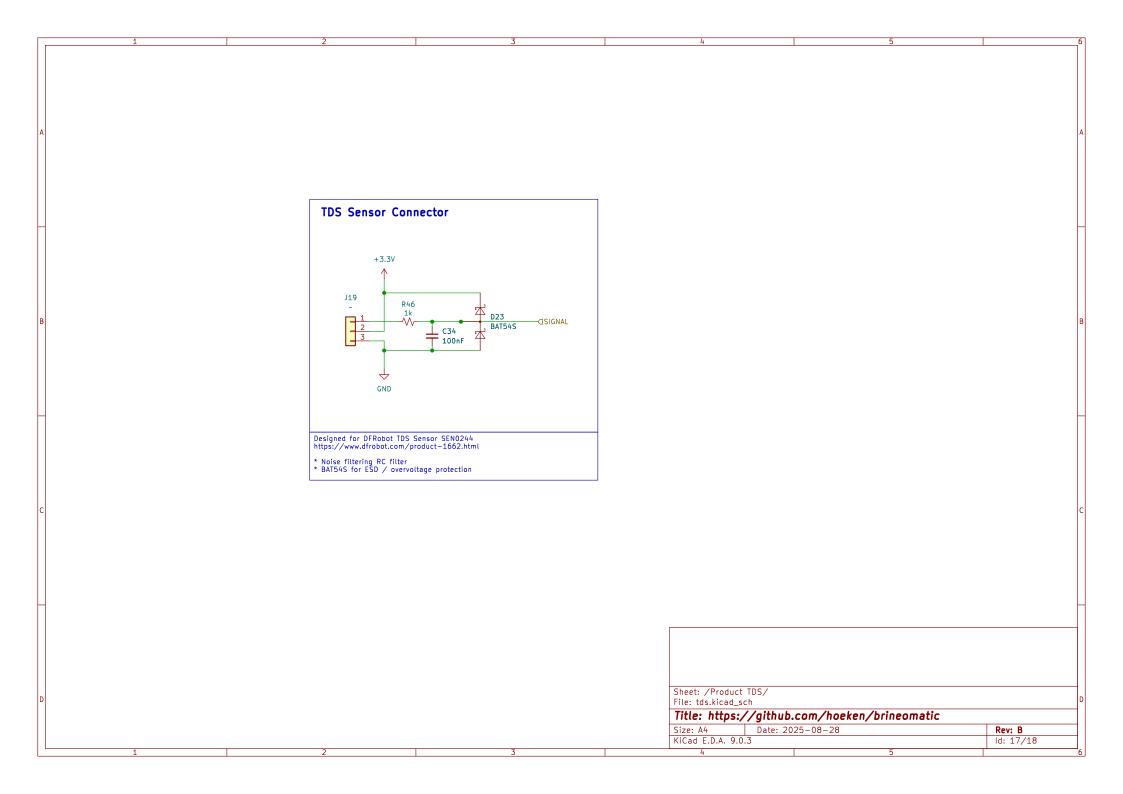
File: brineomatic.kicad sch

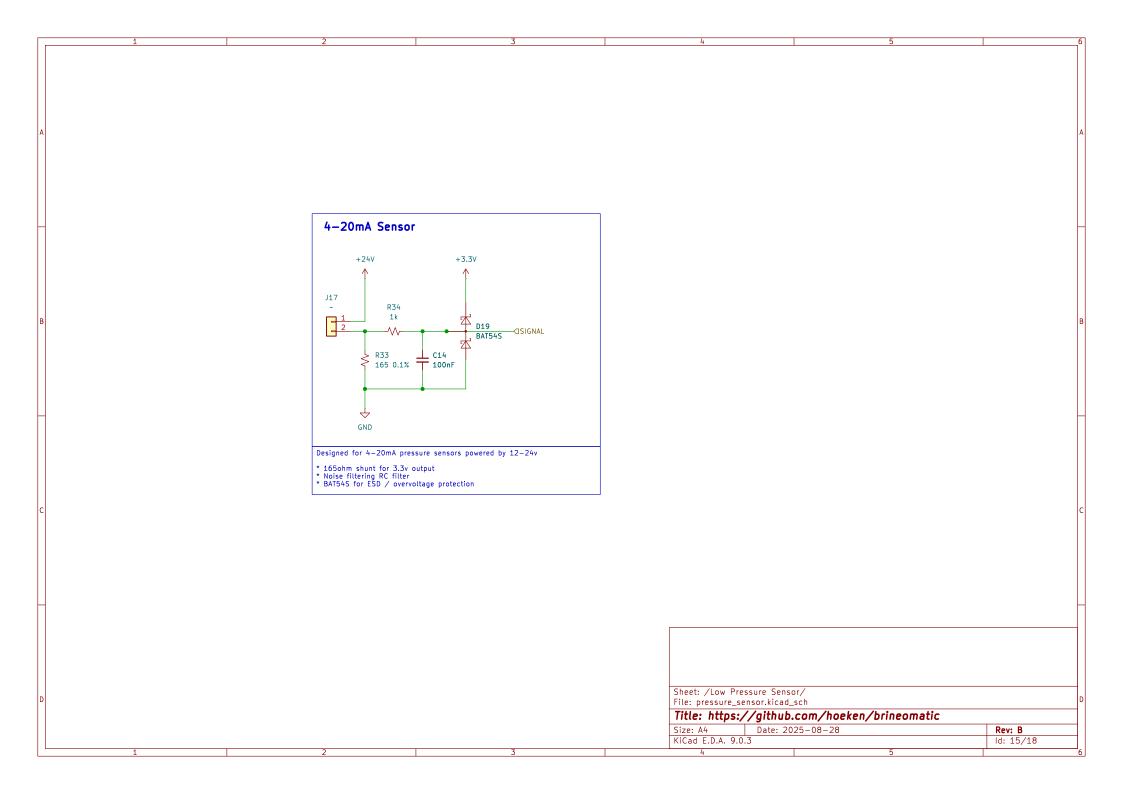
Title: https://github.com/hoeken/brineomatic Size: A4 Date: 2025-08-28

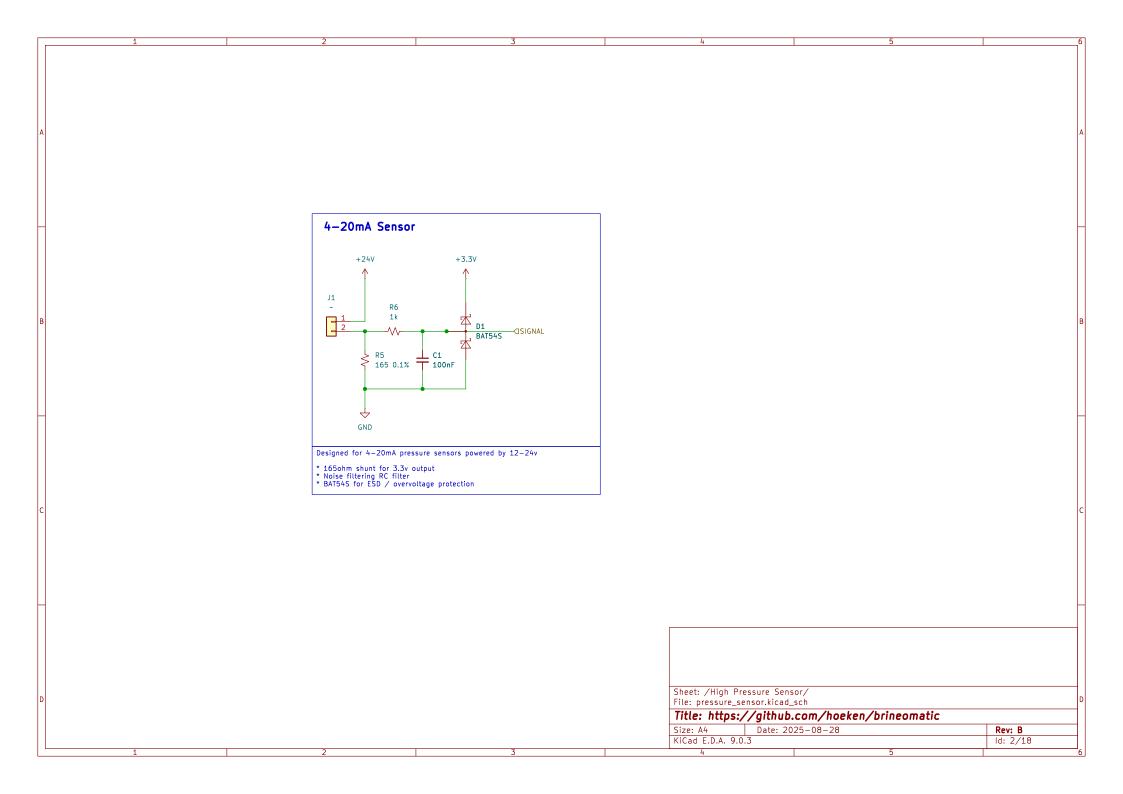
Rev: B KiCad E.D.A. 9.0.3 ld: 1/18

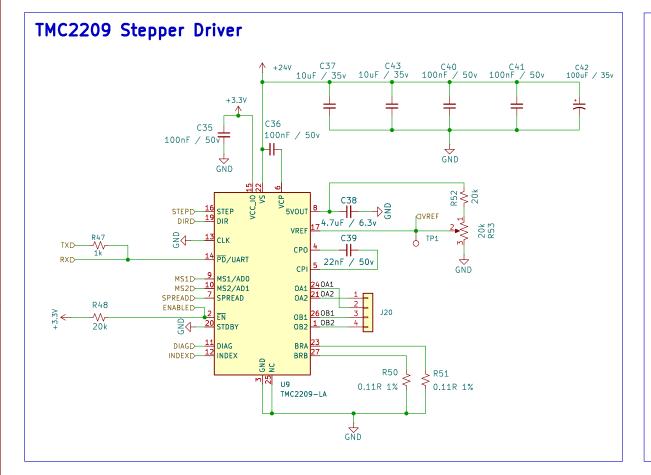












## Configuration

```
VRef 0...2.5V (0.11 Ohm sense resistor)
 >=2.50V 100\% - 1.77A RMS
  1.25V
           50% - 0.88A RMS
  0.50V
           20% - 0.35A RMS
EN (with pull-up)
GNĎ
          driver enabled
          driver disabled
VCC
PDN/UART (with pull-down)
          automatic standstill current reduction
VCC
          automatic standstill power down disable
optional UART interface
MS1
       MS2
              Steps
                       Interpolation
       GND
                       Yes to 256
                       Yes to 256
VIO
       GND
              32
                       Yes to 256
GND
       VIO
VIO
       VIO
              16
                       Yes to 256
SPREAD (with pull-down)
GND stealthChop
 VIO spreadCycle
To access all other modes you have to use the UART interface.
```

```
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```

Designed by Stephan Watterott (Watterott electronic) Re-drawn by Zach Hoeken

Sheet: /Stepper Driver/ File: tmc2209.kicad\_sch

Title: https://github.com/hoeken/brineomatic

 Size: A4
 Date: 2025-08-28
 Rev: B

 KiCad E.D.A. 9.0.3
 Id: 17/18

