

[https://github.com/biodigitalmatter/extruder\\_ctrl\\_circuits](https://github.com/biodigitalmatter/extruder_ctrl_circuits)

Anton Tetov  
**bioDigital Matter Lab**

Sheet: /  
 File: 24V\_plc\_integration\_shield.kicad\_sch

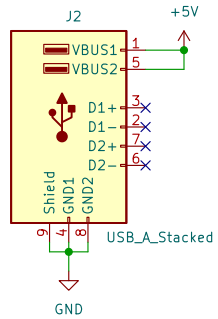
**Title: BF3DP – 24V PLC Integration Shield**

Size: A4	Date: 2022-03-23	Rev: v3.0.0-2-gb658338
KiCad E.D.A. eeschema 6.0.2+dfsg-1-bpo11+1		Id: 1/4

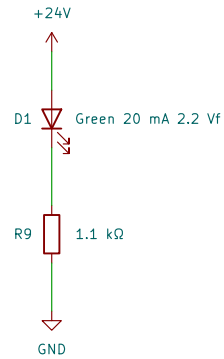
Connection for future  
5V power needs



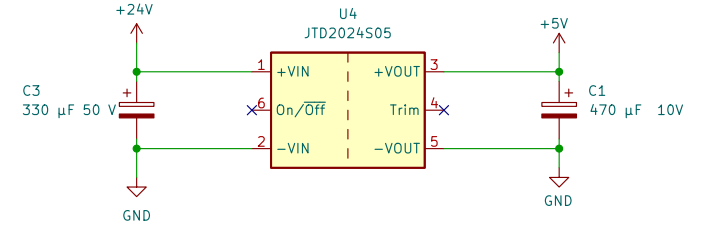
Power supply for  
Raspberry Pi



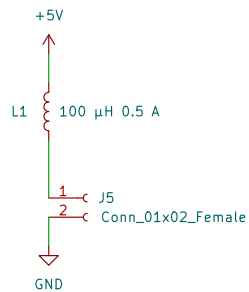
Power on LED



DC/DC 24 V to 5 V



Power supply to 5V PLC



[https://github.com/biodigitalmatter/extruder\\_ctrl\\_circuits](https://github.com/biodigitalmatter/extruder_ctrl_circuits)

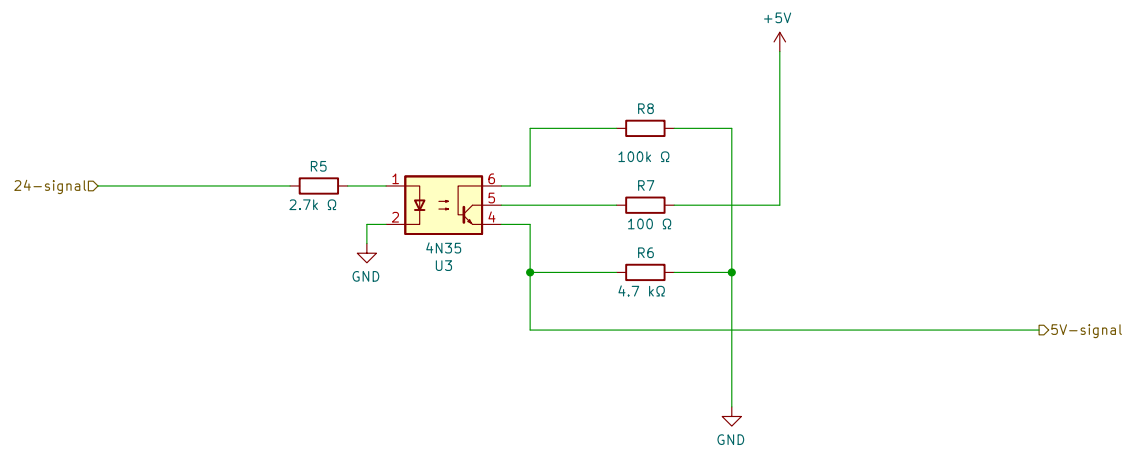
Anton Tetov  
**bioDigital Matter Lab**

Sheet: /power/  
File: power.kicad\_sch

**Title: BF3DP – 24V PLC Integration Shield**

Size: A4 | Date: 2022-03-23 | Rev: v3.0.0-2-gb658338

KiCad E.D.A. eeschema 6.0.2+dfsg-1-bpo11+1 | Id: 2/4



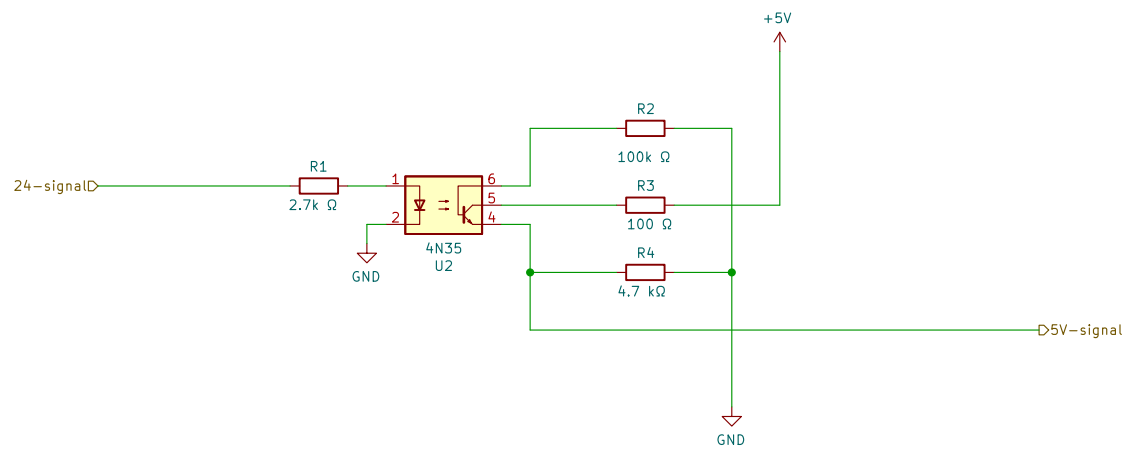
[https://github.com/biodigitalmatter/extruder\\_ctrl\\_circuits](https://github.com/biodigitalmatter/extruder_ctrl_circuits)

Anton Tetov  
**bioDigital Matter Lab**

Sheet: /24V signal to 5V-2/  
 File: 24V\_signal\_to\_5V.kicad\_sch

**Title: BF3DP – 24V PLC Integration Shield**

Size: A4	Date: 2022-03-23	Rev: v3.0.0-2-gb658338
KiCad E.D.A. eeschema 6.0.2+dfsg-1-bpo11+1		Id: 3/4



[https://github.com/biodigitalmatter/extruder\\_ctrl\\_circuits](https://github.com/biodigitalmatter/extruder_ctrl_circuits)

Anton Tetov  
**bioDigital Matter Lab**

Sheet: /24V signal to 5V-1/  
 File: 24V\_signal\_to\_5V.kicad\_sch

**Title: BF3DP – 24V PLC Integration Shield**

Size: A4	Date: 2022-03-23	Rev: v3.0.0-2-gb658338
KiCad E.D.A. eeschema 6.0.2+dfsg-1-bpo11+1		Id: 4/4