

The MP1584 does not provide enough power if you want to power the HaniMandel via the turntable. If you want that, you have to chose a better DCDC converter.

Optional: If the Hanimandel is not to be powered by the power supply from the turntable.

Optional: It is only needed if the stepper motor or the TMC2209 gets too hot.

Direct connection from the scale on the turntable to the input of the scale on the HaniMandel.

Optional: Can be omitted if the module is connected directly to the USB of the computer for flashing.

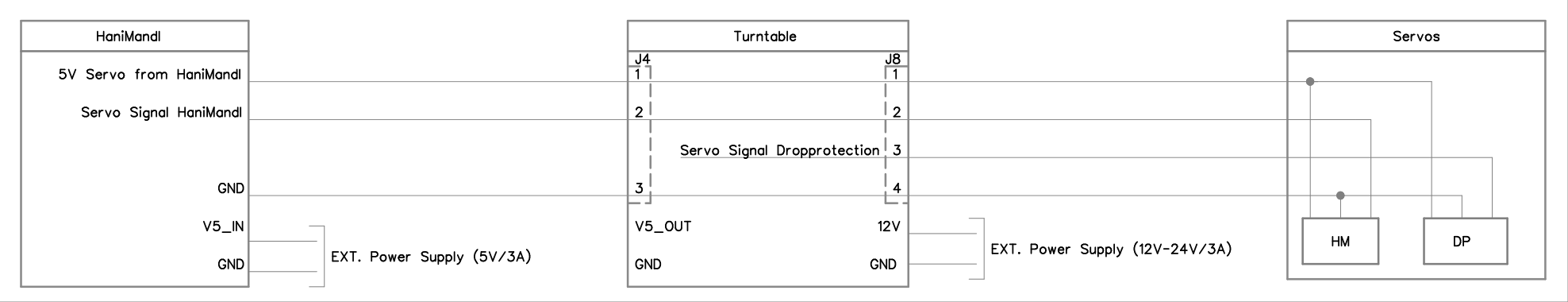
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|--|-------|-------------|
| Optional connection for TFT Display 320x240 (SPI mode) | | |
| ESP32 | | TFT Display |
| GND | 14/38 | GND |
| V3V | 1 | VCC |
| SPI_CLK/G18 | 30 | SCL |
| SPI_MOSI/G23 | 37 | SDA |
| G14 | 12 | RES |
| G17 | 28 | DC |
| SPI_CS/G5 | 29 | CS |

| | | | | | | |
|------------------------------|-----|-----|----|----|----|----|
| TMC2209 Microstep resolution | | | | | | |
| uStep | MS1 | MS2 | R1 | R2 | R3 | R4 |
| 1/8 | GND | GND | | | X | X |
| 1/32 | GND | V3V | X | | X | |
| 1/64 | V3V | GND | | X | | X |
| 1/16 | V3V | V3V | X | X | | |

Important! If you use separate supplies for the turntable and HaniMandel, make sure that GND from the turntable and HaniMandel is connected somewhere.

Connection plan for Servo and Power

Variant 1



Variant 2

