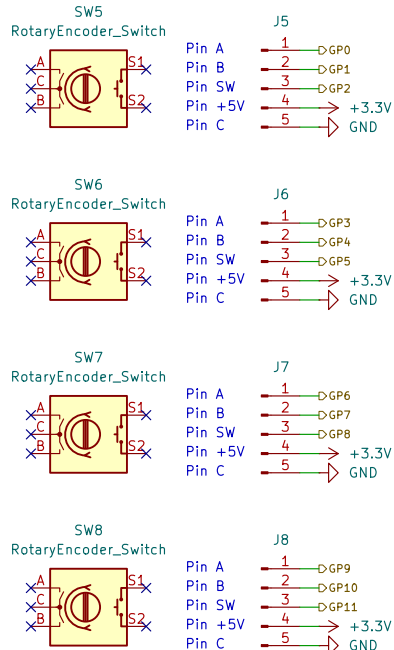
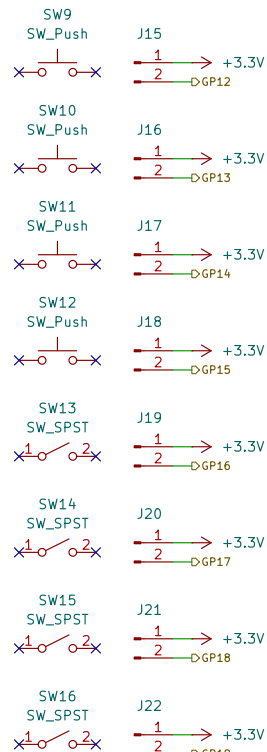


## Rotary encoders with push button (Pico)

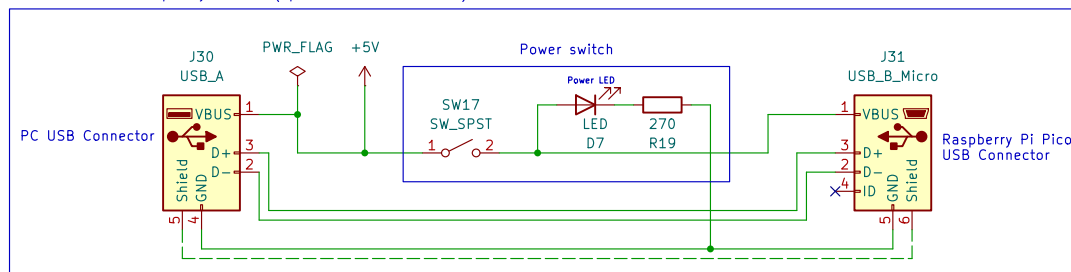


\* Sliding noise resistors are NOT represented, check ALPS EC11 rotary encoders documentation

## Push buttons, switches (Pico)

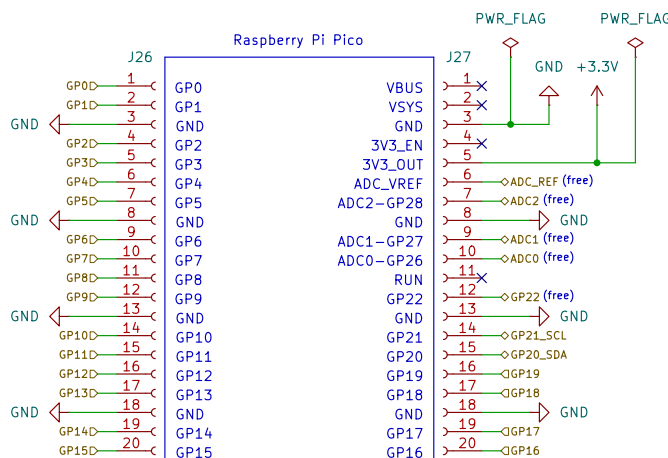


## Power cable for Raspberry Pi Pico (optional, not in the BOM)

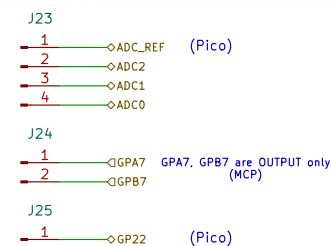


## Raspberry Pi Pico

MCU RP2040 Limitations :  
Maximum current sourced per GPIO pin : < 12mA  
Maximum total current output by ALL pins combined : < 250mA

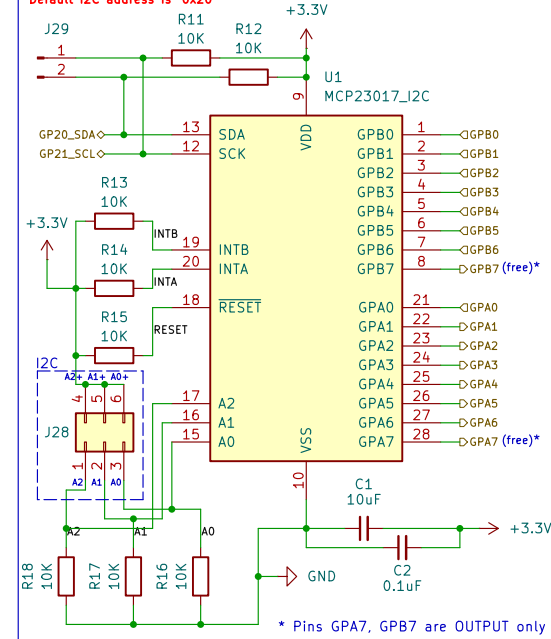


## Free connectors (not in the BOM)



## GPIO expander MCP23017

MCP23017 Limitations :  
Maximum current sourced per GPIO pin : < 25mA  
Maximum total current output (VSS) by ALL pins combined : < 150mA  
! Less than 10mA per pin if ALL 16 pins out combined !  
Default I2C address is '0x20'



For Raspberry Pi Pico only : <https://www.raspberrypi.com/products/raspberry-pi-pico/>

Main project : <https://github.com/Mick3DIY/MultiPicoBox>

Sheet: /

File: MultiPicoBox.kicad\_sch

**Title: MultiPicoBox V2**

Size: A4 Date: 2025-10-13

KiCad E.D.A. 8.0.9

Rev:

Id: 1/1