MIDI to TTL Interface
Power switch
for RaspberryPi

E	D	C	B	A	Drawn	Check	Projection			MIDI to TTL Interface
					20.10.2022		Do Not Scale			Power switch
Drn	Drn	Drn	Drn	Project			Client			for RaspberryPi
				MIDI Host with RaspberryPI Zero W			mysli			
Chk	Chk	Chk	Chk	Title			Filename		Drawing No.	Sheet
				MIDI Interface 4 RaspberryPi			MIDISchaltplan.sch			1 of 1

Component labels:

- Vcc 5V, D3 SAY12 (<10mA)
- R9 1K, R7 10K, R10 100K
- USB_Connector
- C2.C4 mounted outside of PCB to fit into case
- Vdd 3.3V, C2 100n, C4 470uF/6.3V
- ensure not <+5V !
- CONN2 RasPiHAT_Short14 CONN14-90
- 3.3V, 5V, (SDA) GPIO2, (SCL) GPIO3, GND, (GPCLK0) GPIO4, (TXD) GPIO14, GND, (RXD) GPIO15, GPIO17, GPIO18, GPIO27, GND
- SI2301BDS-T1-E3, BSS138G
- R8 1M, C3 1uF, Vdd 3.3V
- Vcc 5V
- R11 1.2K, R12 1.5K, U1a 74LS125
- C1 100nF, U1b 74LS125
- U1d 74LS125, R3 220, R6 220, MIDI_OUT, Data
- Vdd 3.3V, R2 500, U1c 74LS125, R4 220, R5 220, MIDI_Thru
- Q1 PC357 SMD4dil, D2 1N4148, R1 220, MIDI_IN
- DIN Socket Front, GND
- ext. Power Btn
- S1 Switch SPST (6mm PCB) DIL