

A

A

B

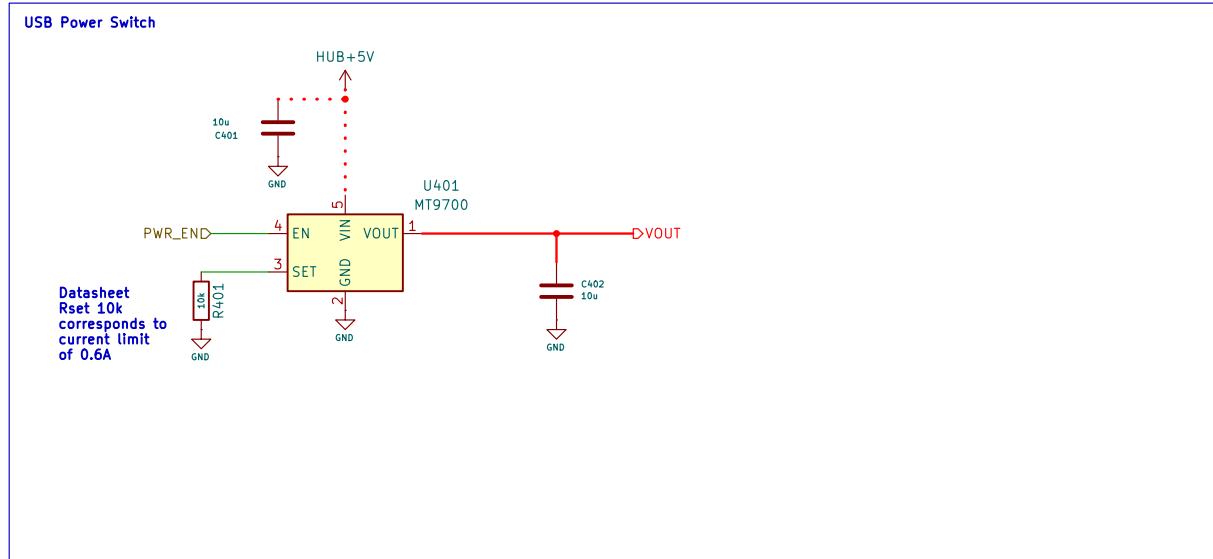
B

C

C

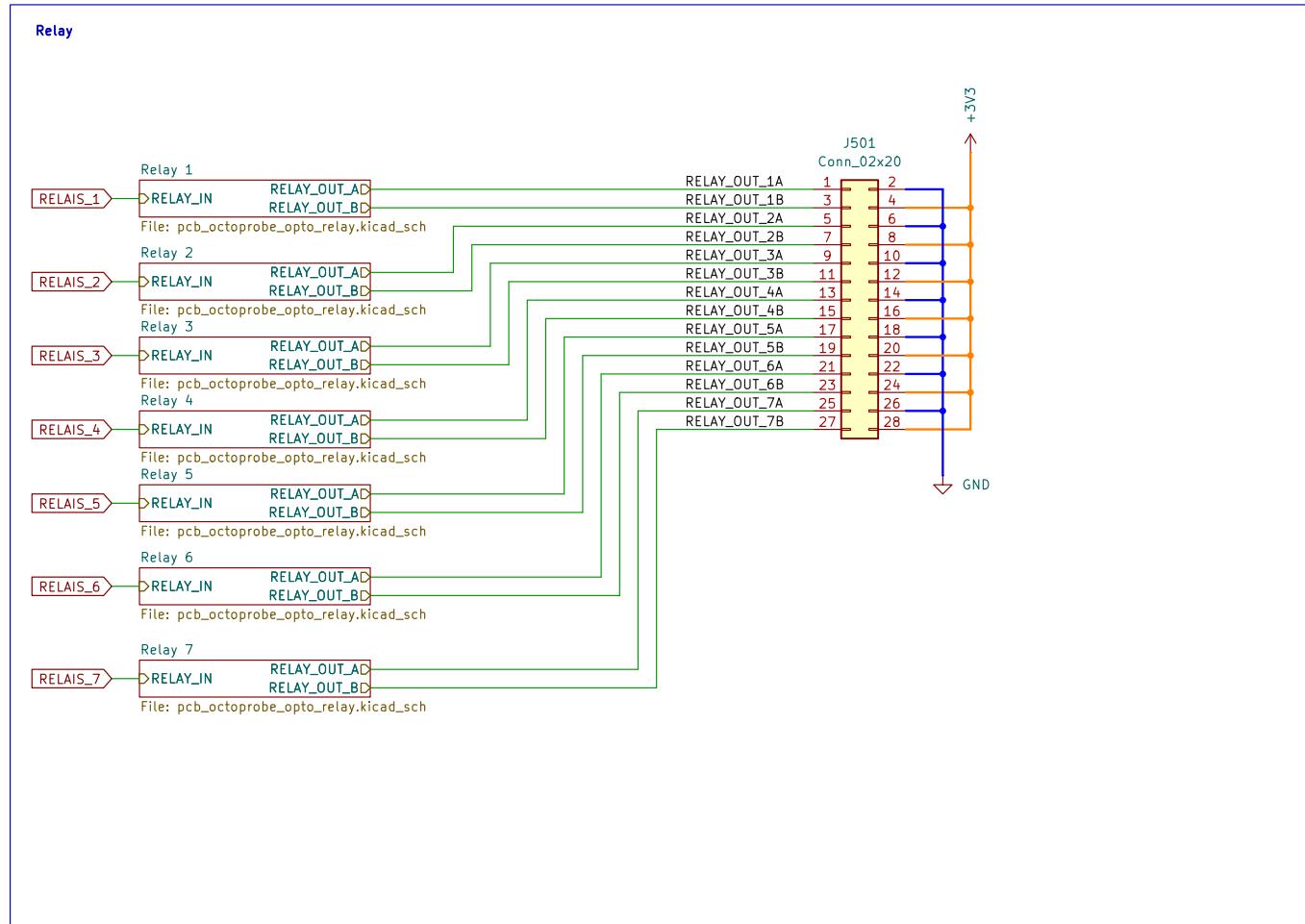
D

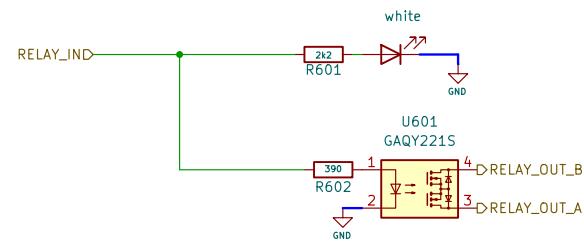
D



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Hans Märki, Märki Informatik
Sheet: /USB Power Switch RP2/
File: pcb_octoprobe_usbpowerswitch.kicad_sch
Title: Octoprobe tentacle
Size: A4 Date: 2025-02-13
KiCad E.D.A. 8.0.8

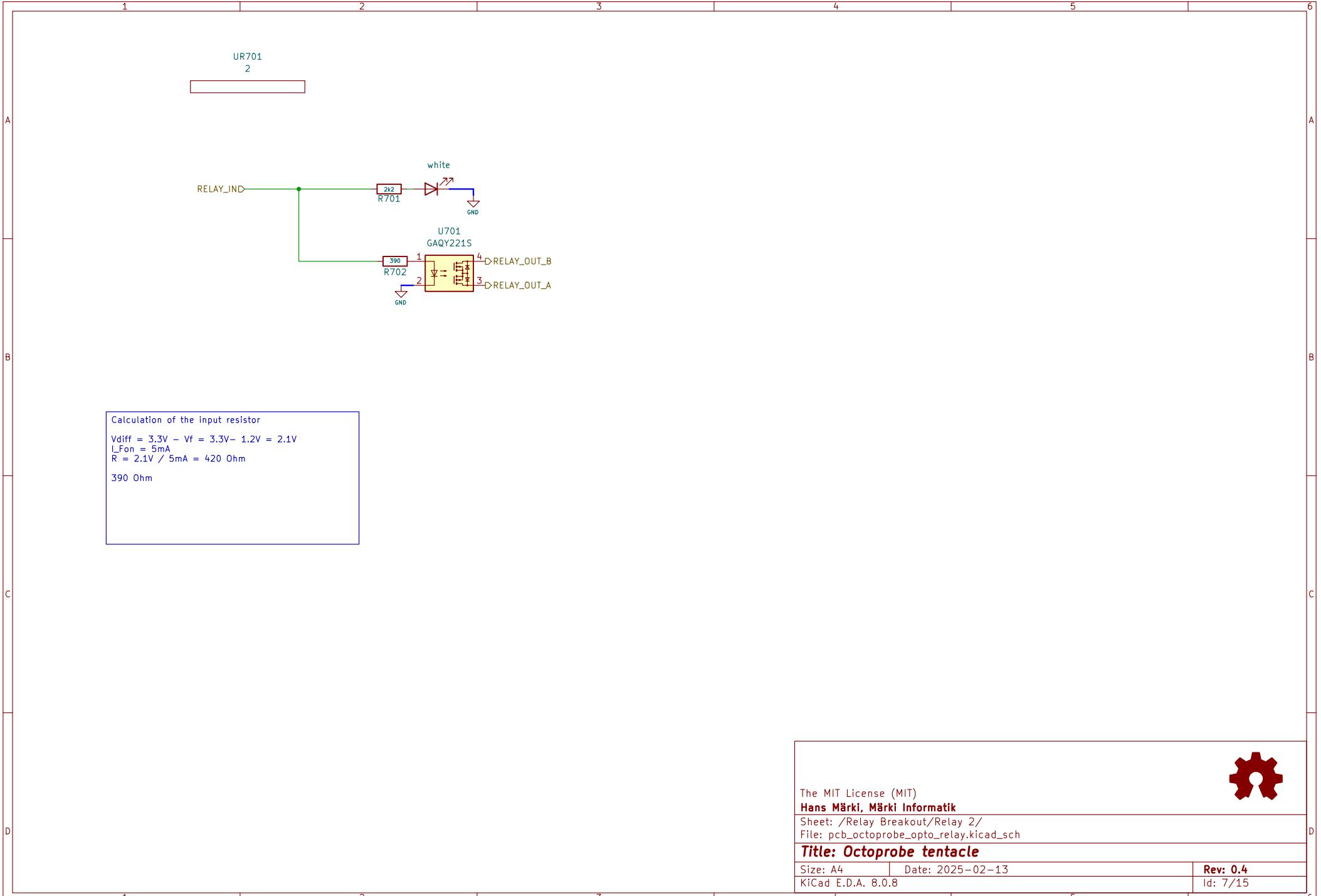


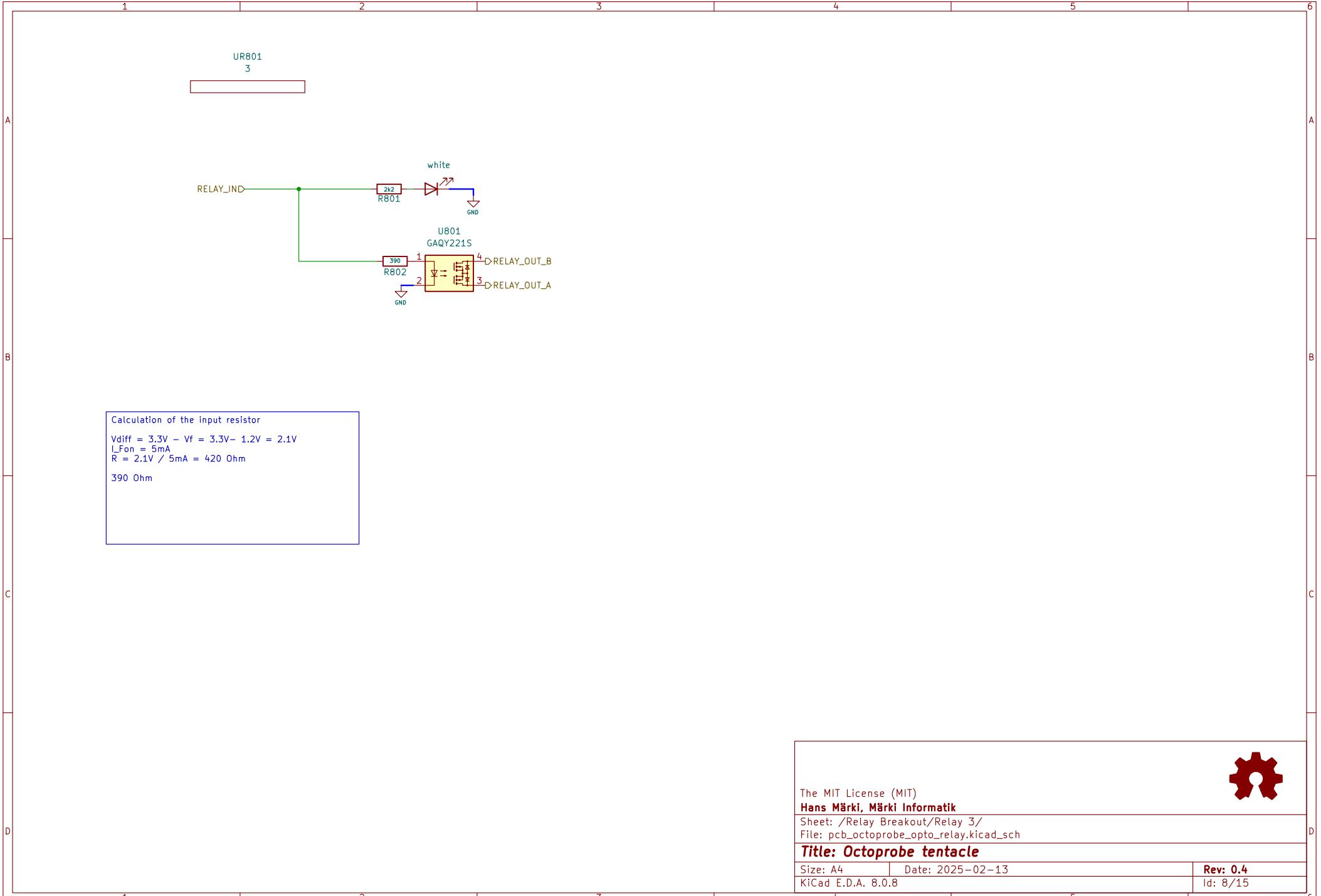


UR601
1**Calculation of the input resistor**

$V_{diff} = 3.3V - V_f = 3.3V - 1.2V = 2.1V$
 $I_{Fon} = 5mA$
 $R = 2.1V / 5mA = 420 \text{ Ohm}$
 390 Ohm

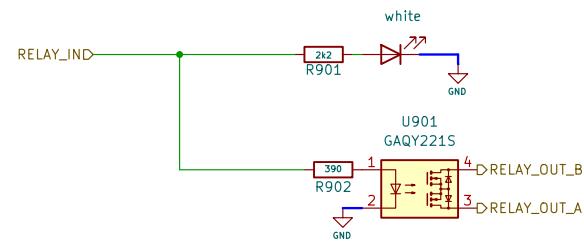






UR901
4

A



A

B

B

Calculation of the input resistor

$V_{diff} = 3.3V - V_f = 3.3V - 1.2V = 2.1V$
 $I_{Fon} = 5mA$
 $R = 2.1V / 5mA = 420 \text{ Ohm}$
 390 Ohm

C

C

D

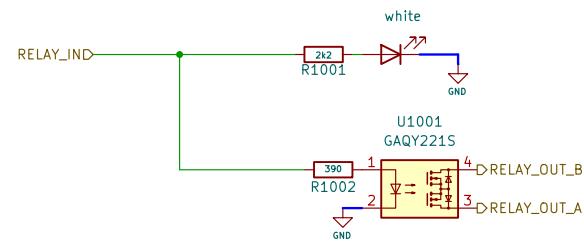
D

UR1001

5



A



A

B

B

Calculation of the input resistor

$V_{diff} = 3.3V - V_f = 3.3V - 1.2V = 2.1V$
 $I_{Fon} = 5mA$
 $R = 2.1V / 5mA = 420 \text{ Ohm}$
 390 Ohm

C

C

D

D

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Sheet: /Relay Breakout/Relay 5/

File: pcb_octoprobe_opto_relay.kicad_sch

Title: Octoprobe tentacle

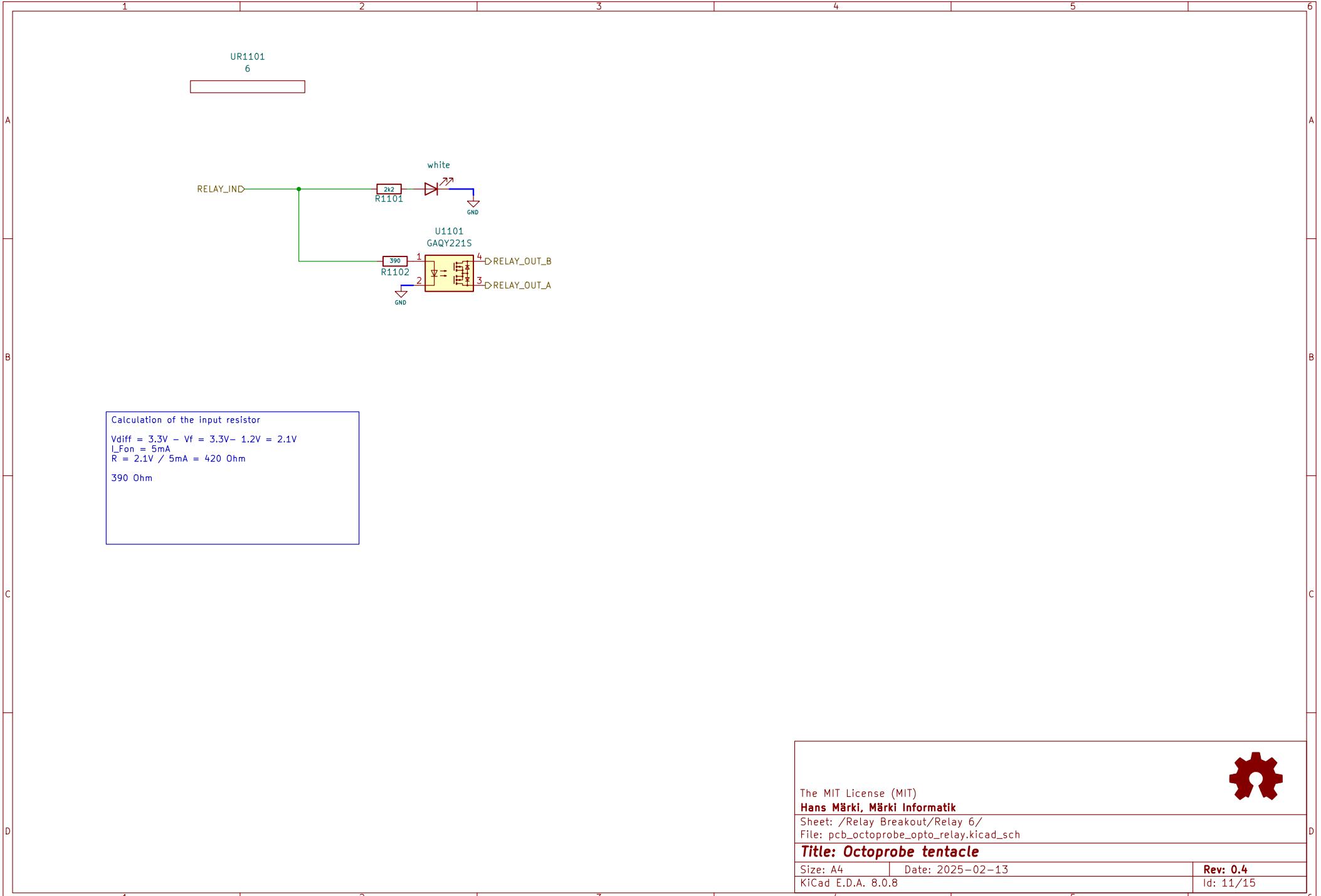
Size: A4 Date: 2025-02-13

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Rev: 0.4

Id: 10/15

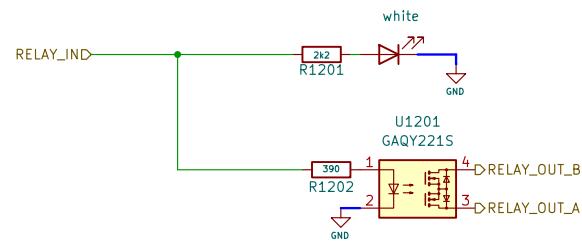


UR1201

7

A

A



B

B

Calculation of the input resistor

$V_{diff} = 3.3V - V_f = 3.3V - 1.2V = 2.1V$
 $I_{Fon} = 5mA$
 $R = 2.1V / 5mA = 420 \text{ Ohm}$
 390 Ohm

C

C

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 Sheet: /Relay Breakout/Relay 7/
 File: pcb_octoprobe_opto_relay.kicad_sch
Title: Octoprobe tentacle
 Size: A4 Date: 2025-02-13
 KiCad E.D.A. 8.0.8 Rev: 0.4
 Id: 12/15



A

A

B

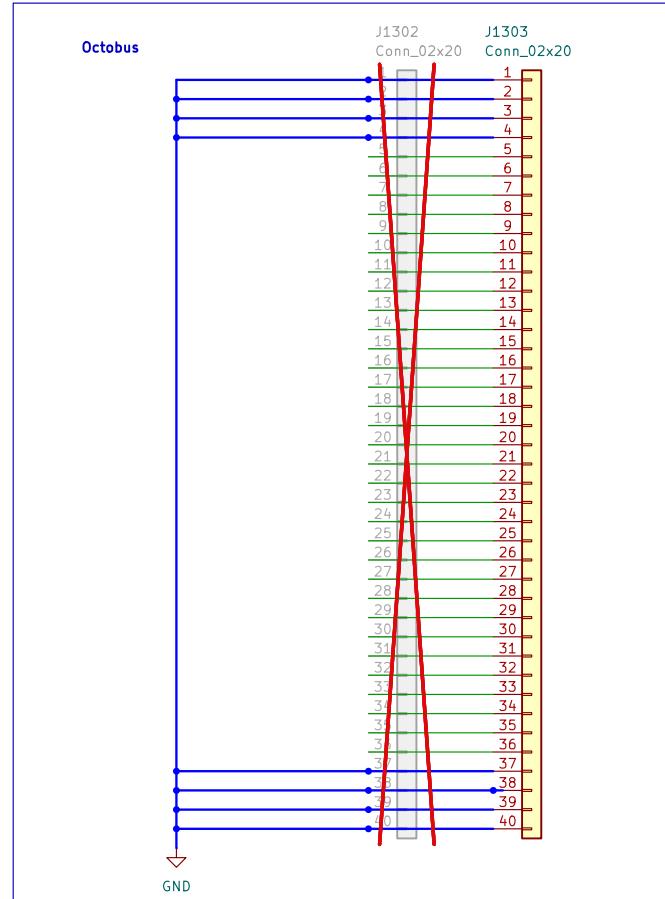
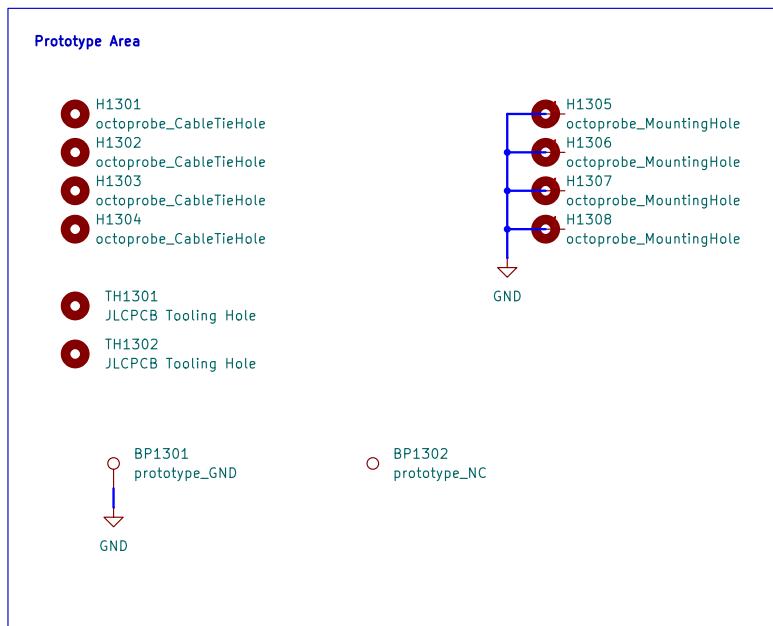
B

C

C

D

D



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Sheet: /Prototype_Area/
File: pcb_octoprobe_prototype_area.kicad_sch
Title: Octoprobe tentacle
Size: A4 Date: 2025-02-13
KiCad E.D.A. 8.0.8



Rev: 0.4
Id: 13/15

A

A

B

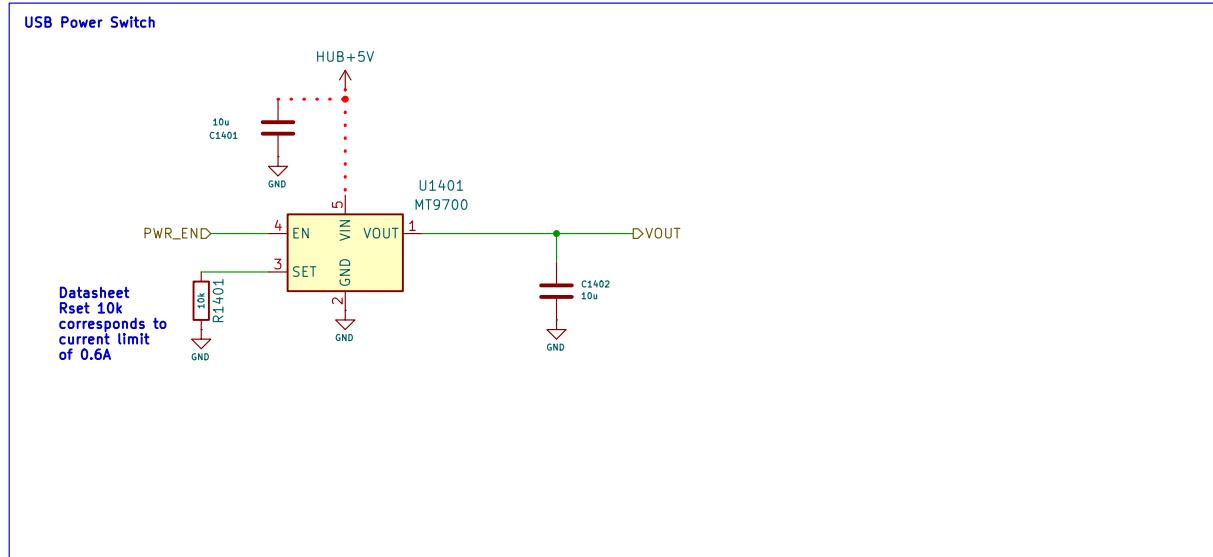
B

C

C

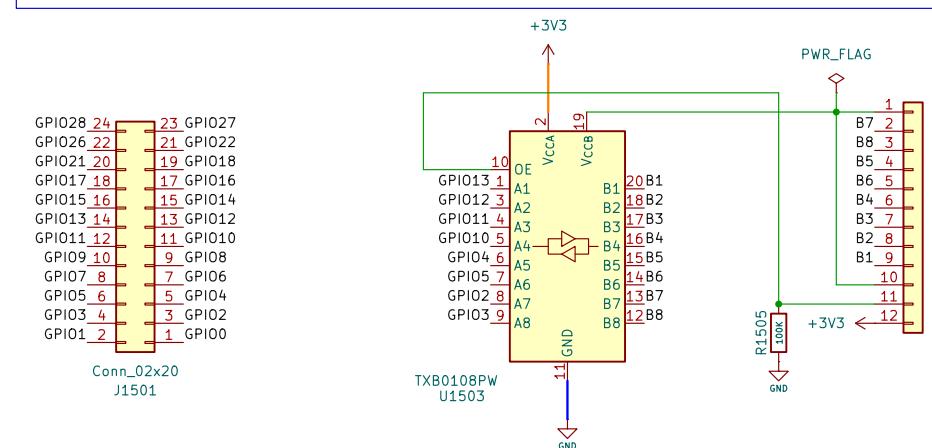
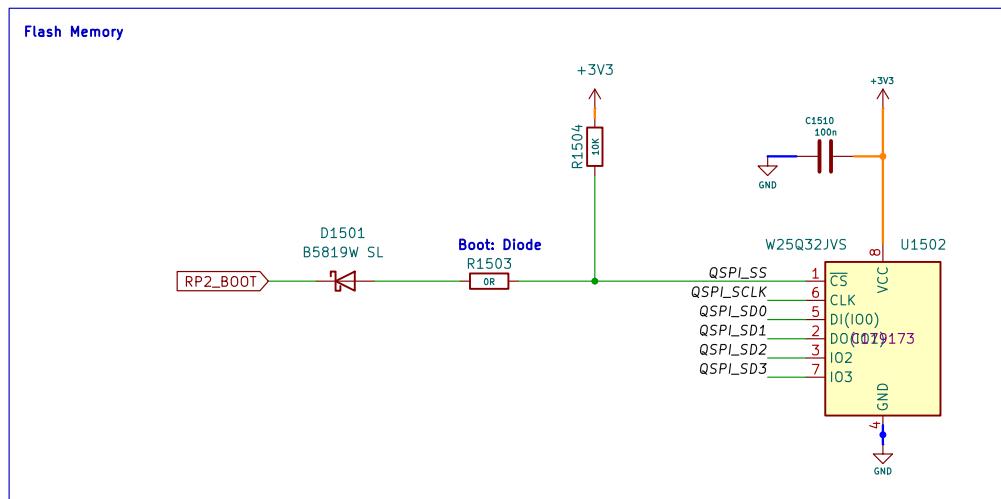
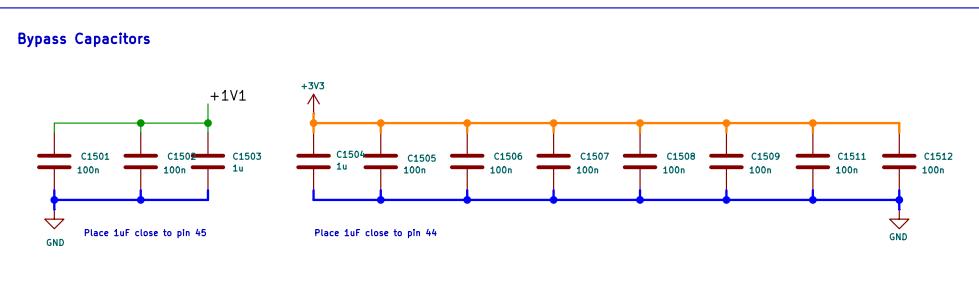
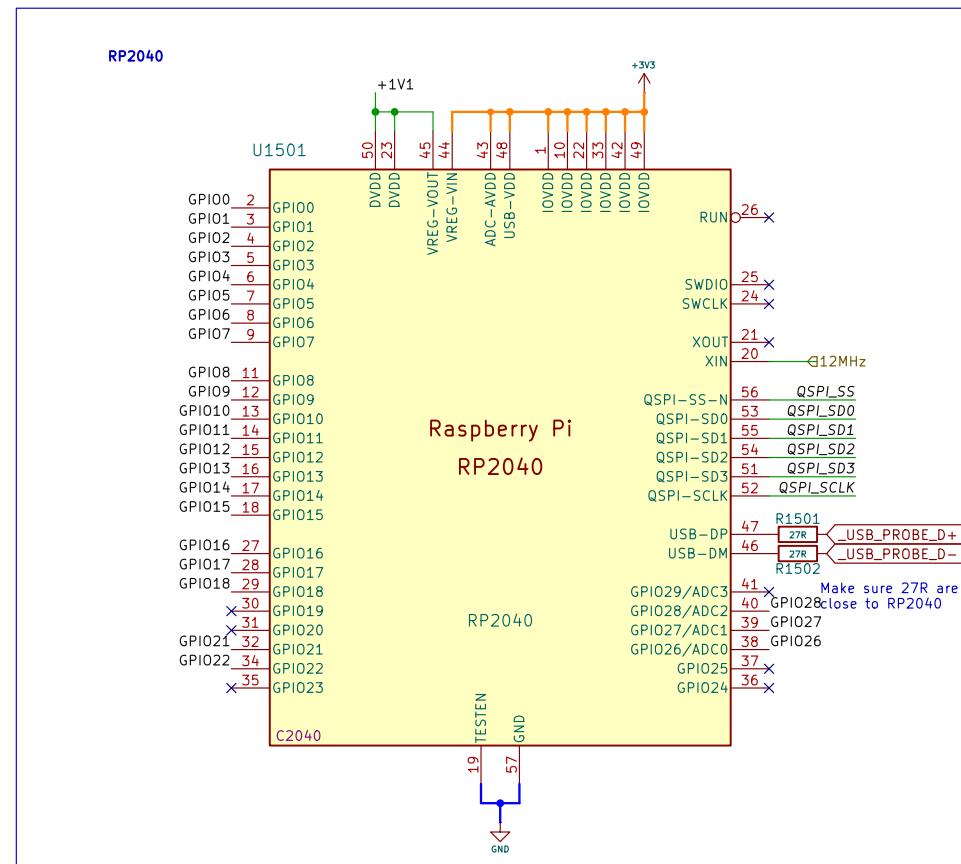
D

D



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 Sheet: /USB Power Switch DUT/
 File: pcb_octoprobe_usbpowerswitch.kicad_sch
Title: Octoprobe tentacle
 Size: A4 Date: 2025-02-13
 KiCad E.D.A. 8.0.8 Rev: 0.4
 Id: 14/15





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Sheet: /RP2 PROBE/
File: pcb_octoprobe_probe.kicad_sch

Title: Octoprobe tentacle

Size: A4 Date: 2025-02-13

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