
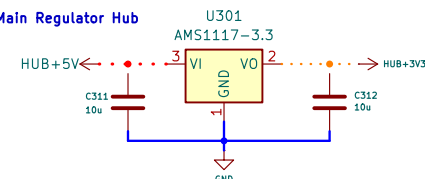
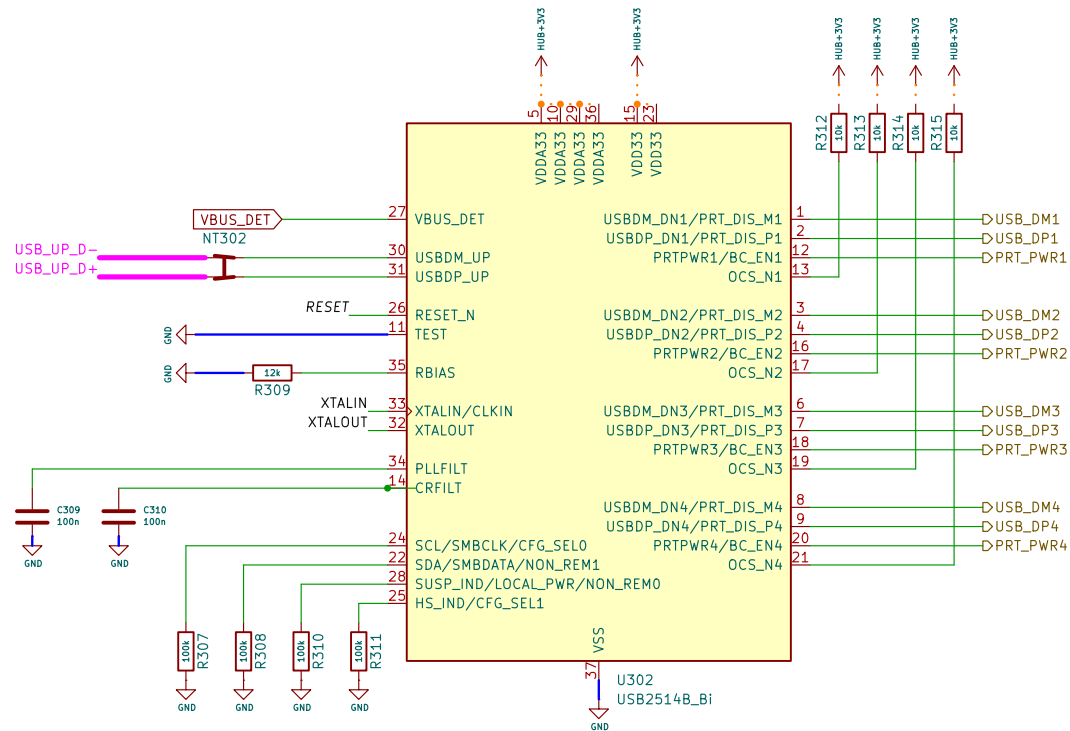
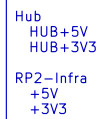
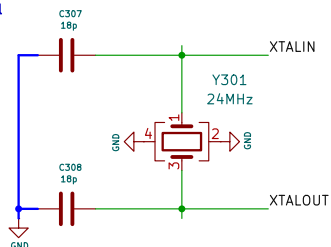
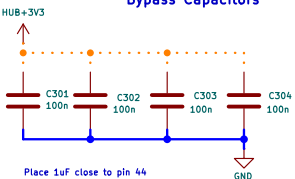
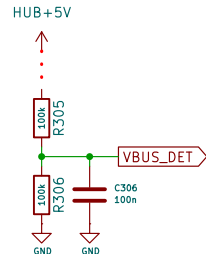
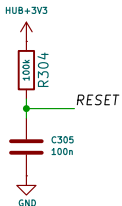
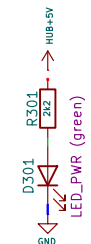
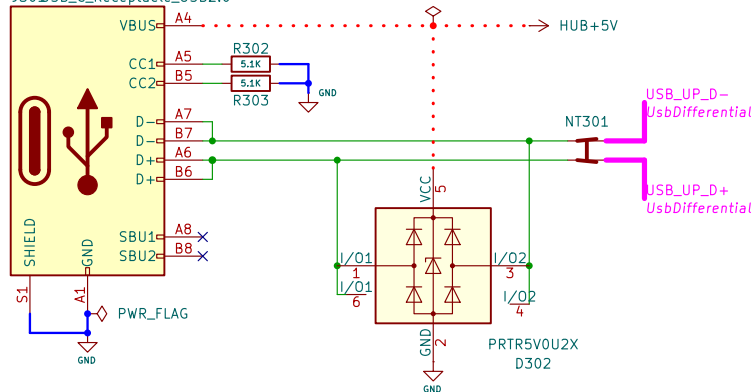


Jlc	USD/Stock	Package	Comments
C2831468	0.37/1k	SMD2520-4P	1nd
C2901596	0.37/1k	SMD2520-4P	2nd
C437139	0.29/188	SMD2520-4P	2nd
C387449	0.49/3k	SMD2520-4P	2nd
C409301	0.55/2k	SMD2520-4P	2nd

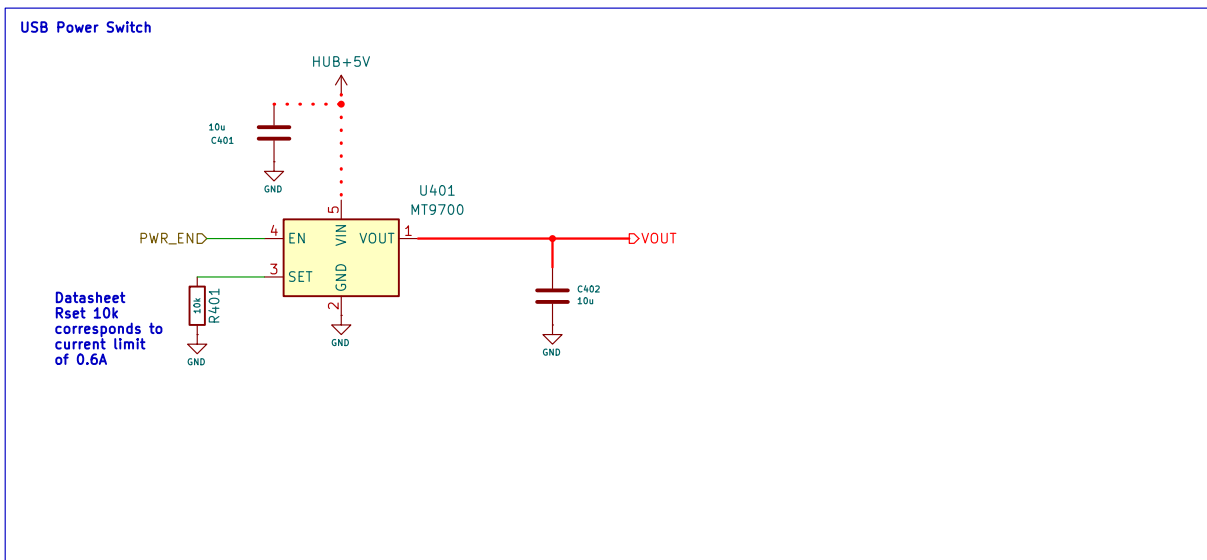
	
The MIT License (MIT) <b>Hans Märki, Märki Informatik</b>	
Sheet: /RP2_CPU/ File: pcb_octoprobe_cpu.kicad_sch	
<b>Title: Octoprobe tentacle</b>	
Size: A4	Date: 2025-02-13 KiCad E.D.A. 8.0.8
	Rev: 0.4 Id: 2/15



DP/DM:  
27mil, 0.7mm, trace  
5mil, 0.127mm, space  
50mil, 1.27mm, trace side no ground

Id: 3/15





The MIT License (MIT)

Hans Märki, Märki Informatik

Sheet: /USB Power Switch RP2/

File: pcb\_octoprobe\_usbpowerswitch.kicad\_sch

**Title: Octoprobe tentacle**

Size: A4

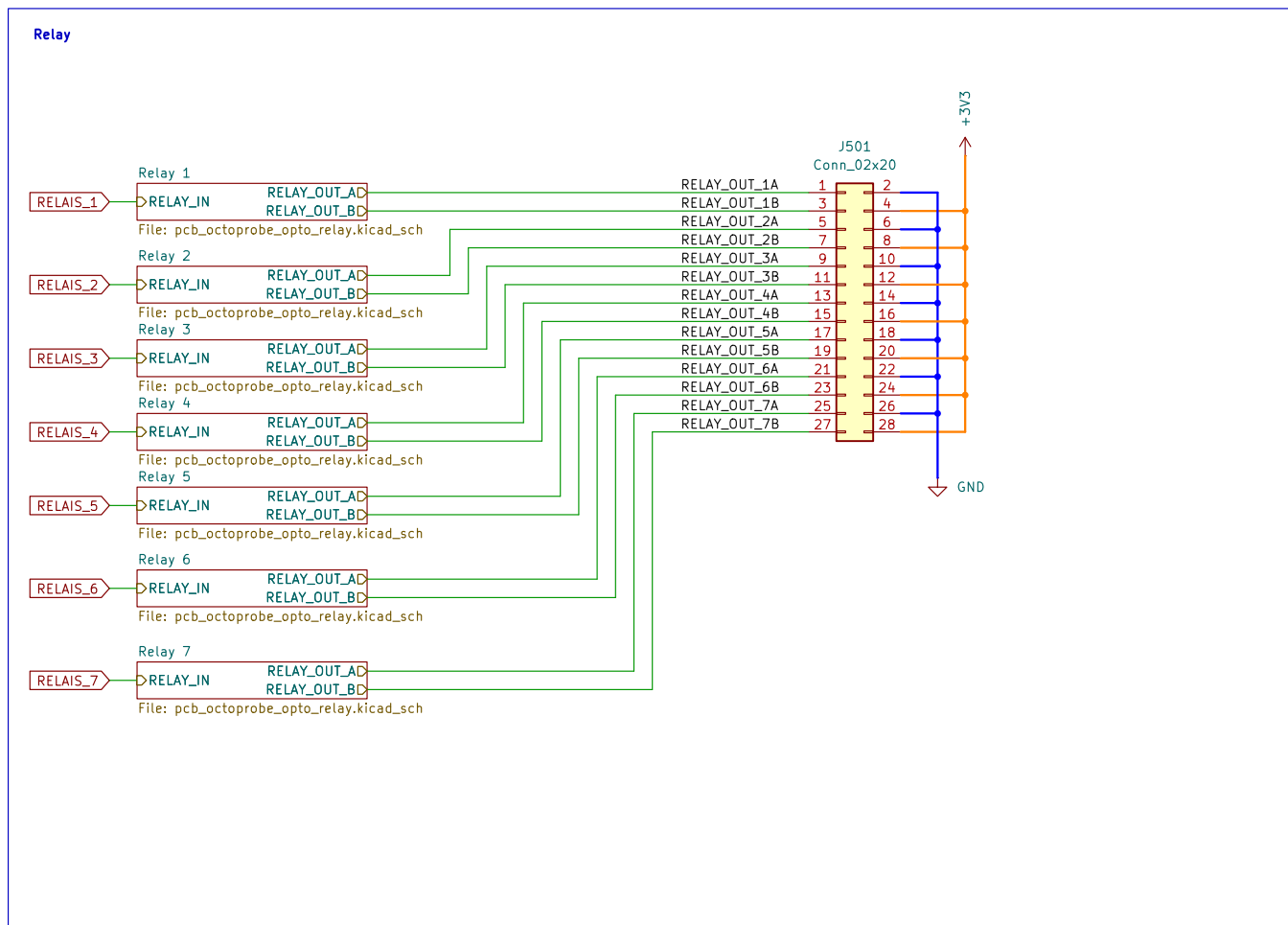
Date: 2025-02-13

Rev: 0.4

KiCad E.D.A. 8.0.8

Id: 4/15





The MIT License (MIT)

**Hans Märki, Märki Informatik**

Sheet: /Relay Breakout/

File: pcb\_octoprobe\_relay\_breakout.kicad\_sch

**Title: Octoprobe tentacle**

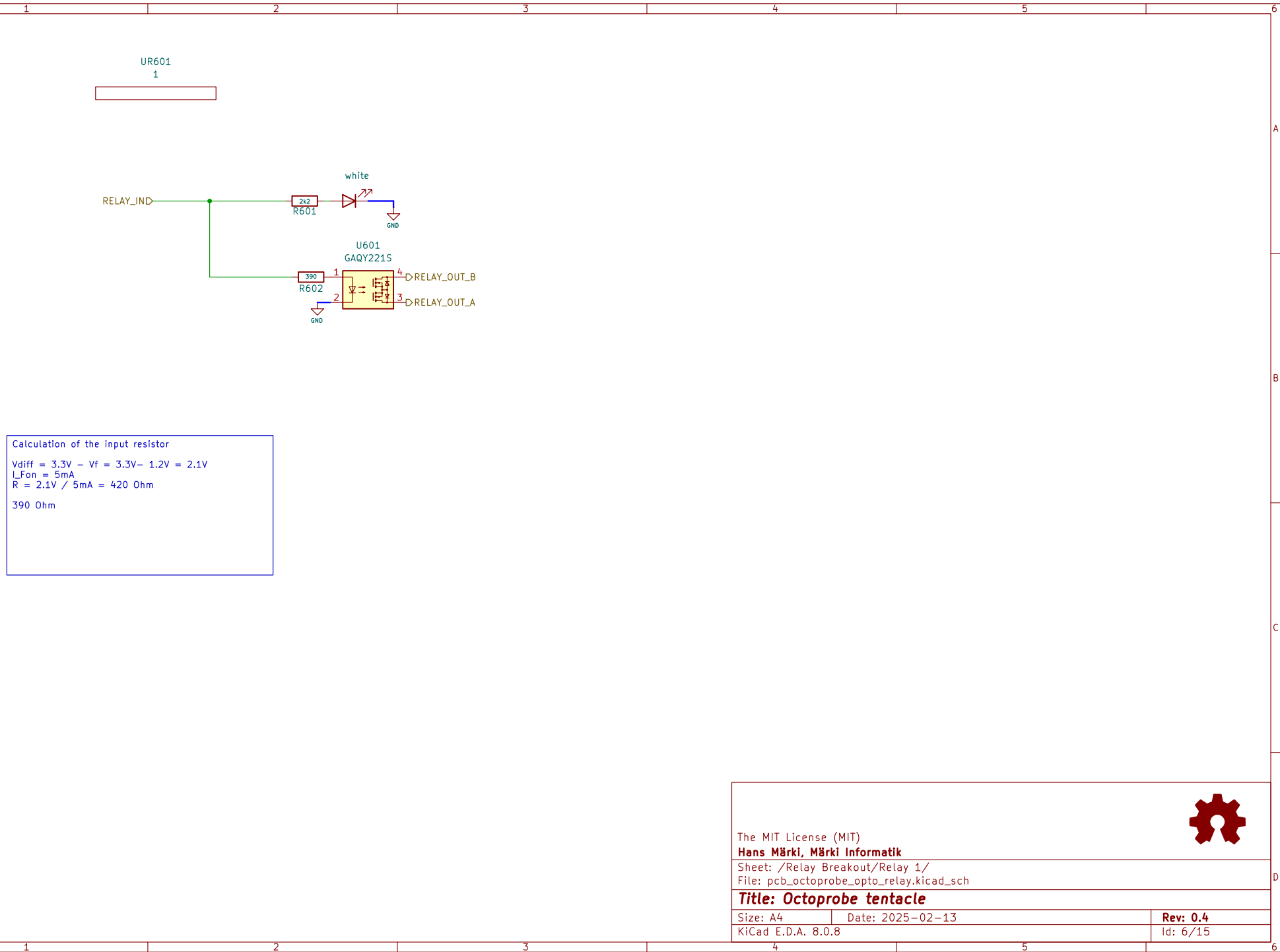
Size: A4

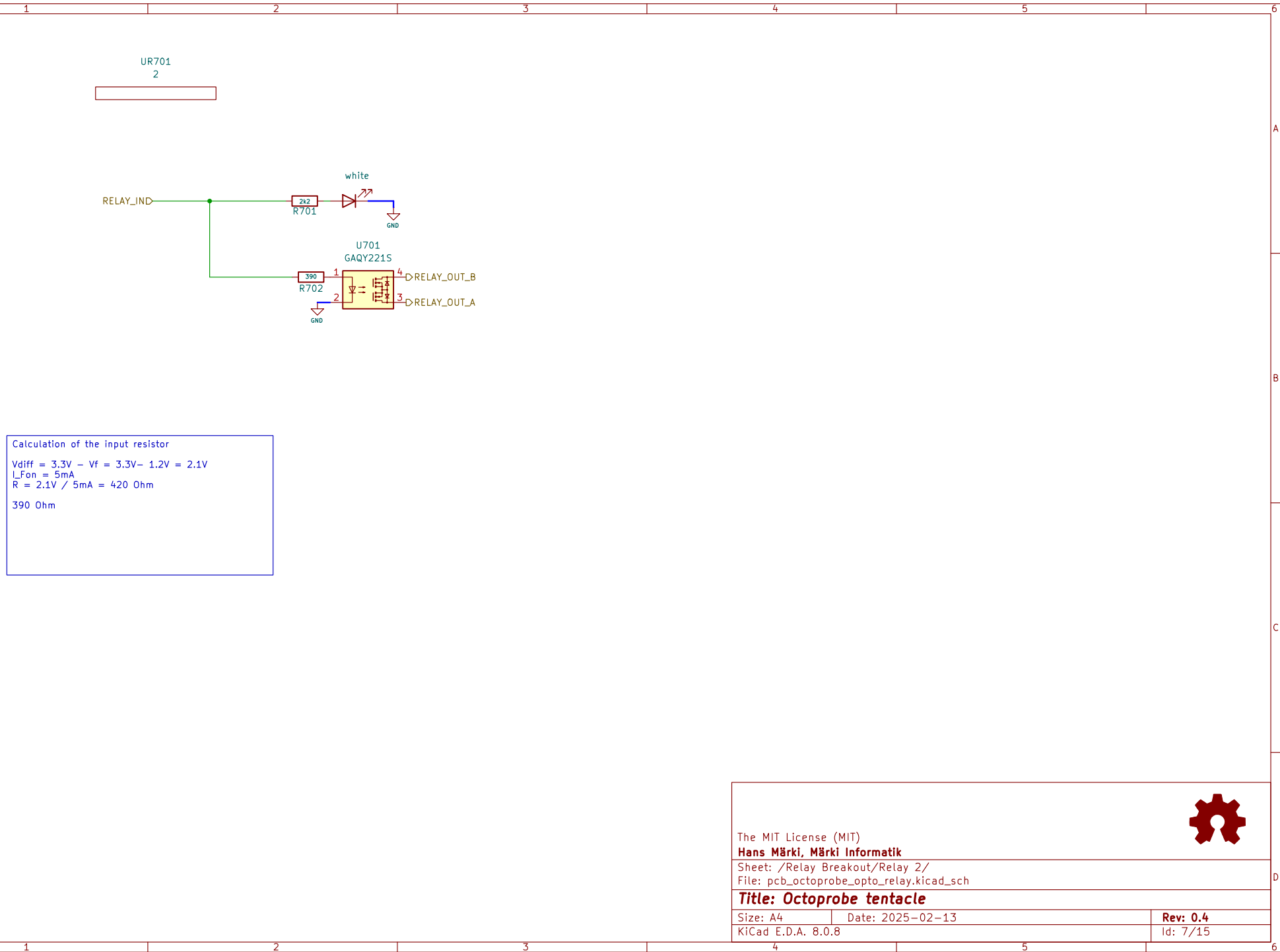
Date: 2025-02-13

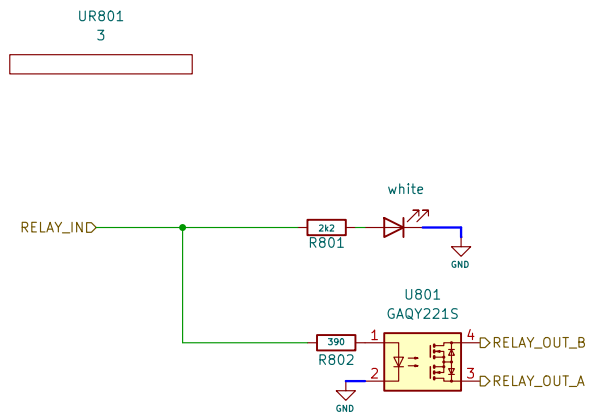
Rev: 0.4

KiCad E.D.A. 8.0.8

Id: 5/15







Calculation of the input resistor

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

The MIT License (MIT)

**Hans Märki, Märki Informatik**

Sheet: /Relay Breakout/Relay 3/

File: pcb\_octoprobe\_opto\_relay.kicad\_sch

**Title: Octoprobe tentacle**

Size: A4

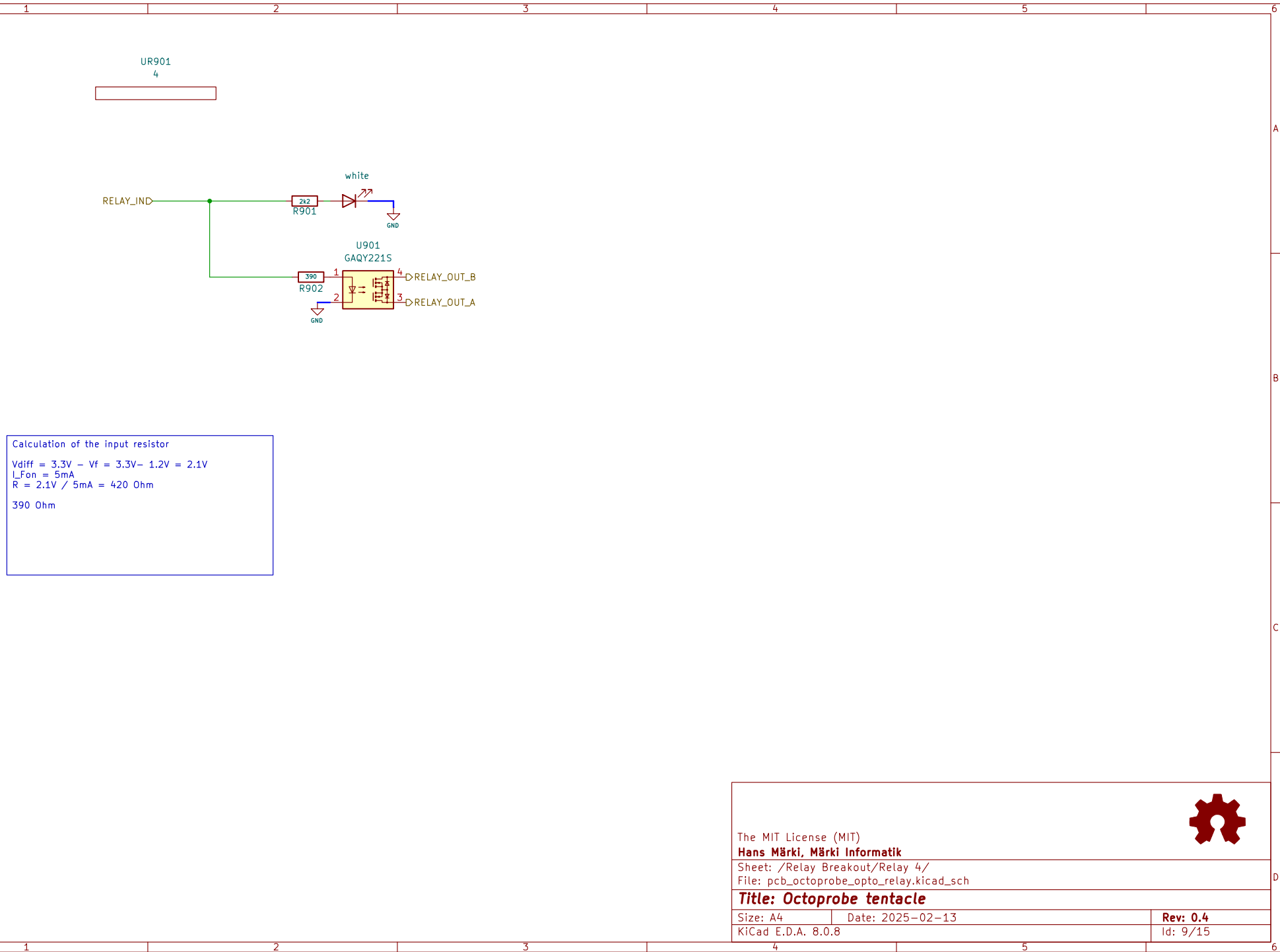
Date: 2025-02-13

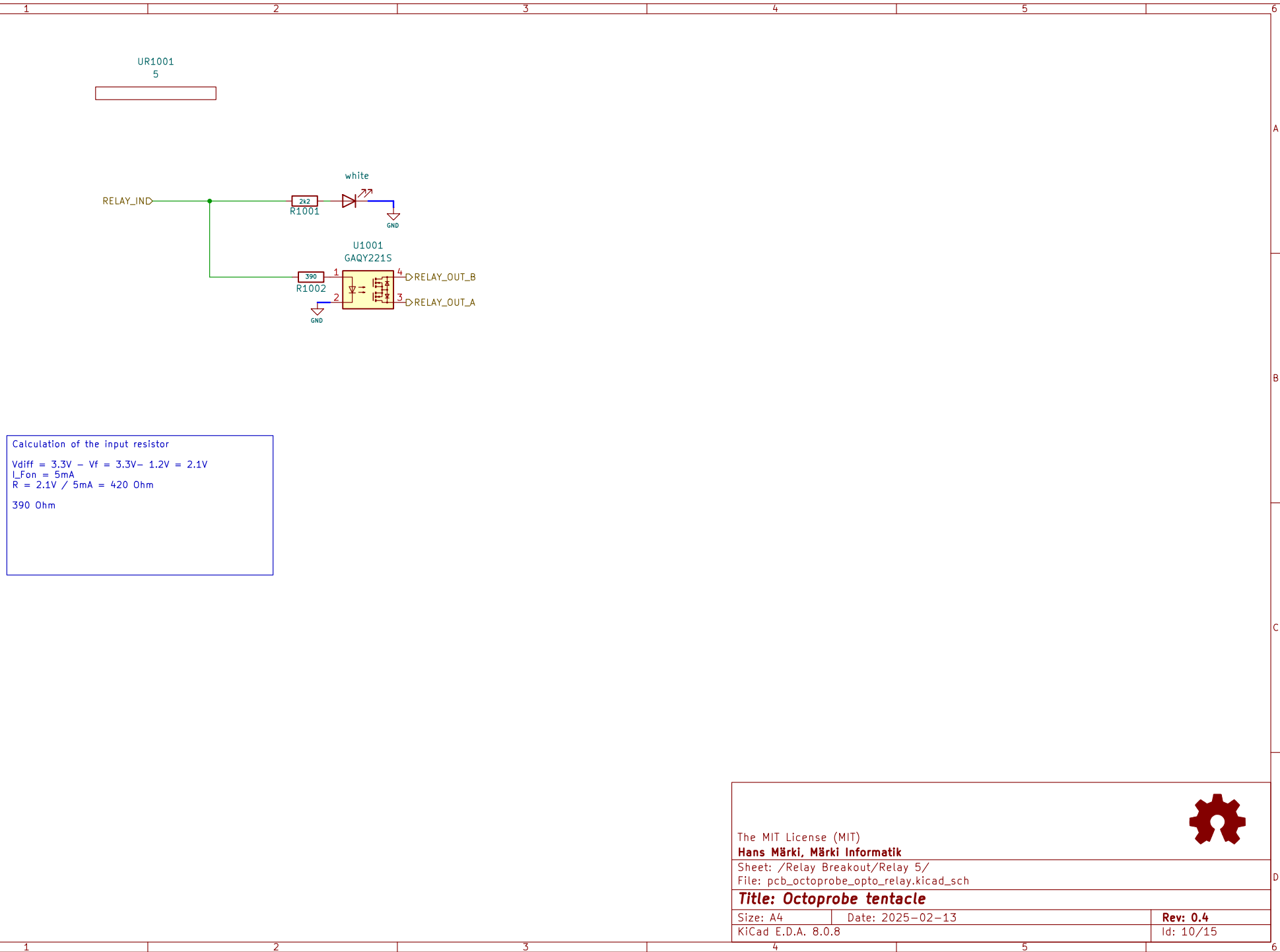
**Rev: 0.4**

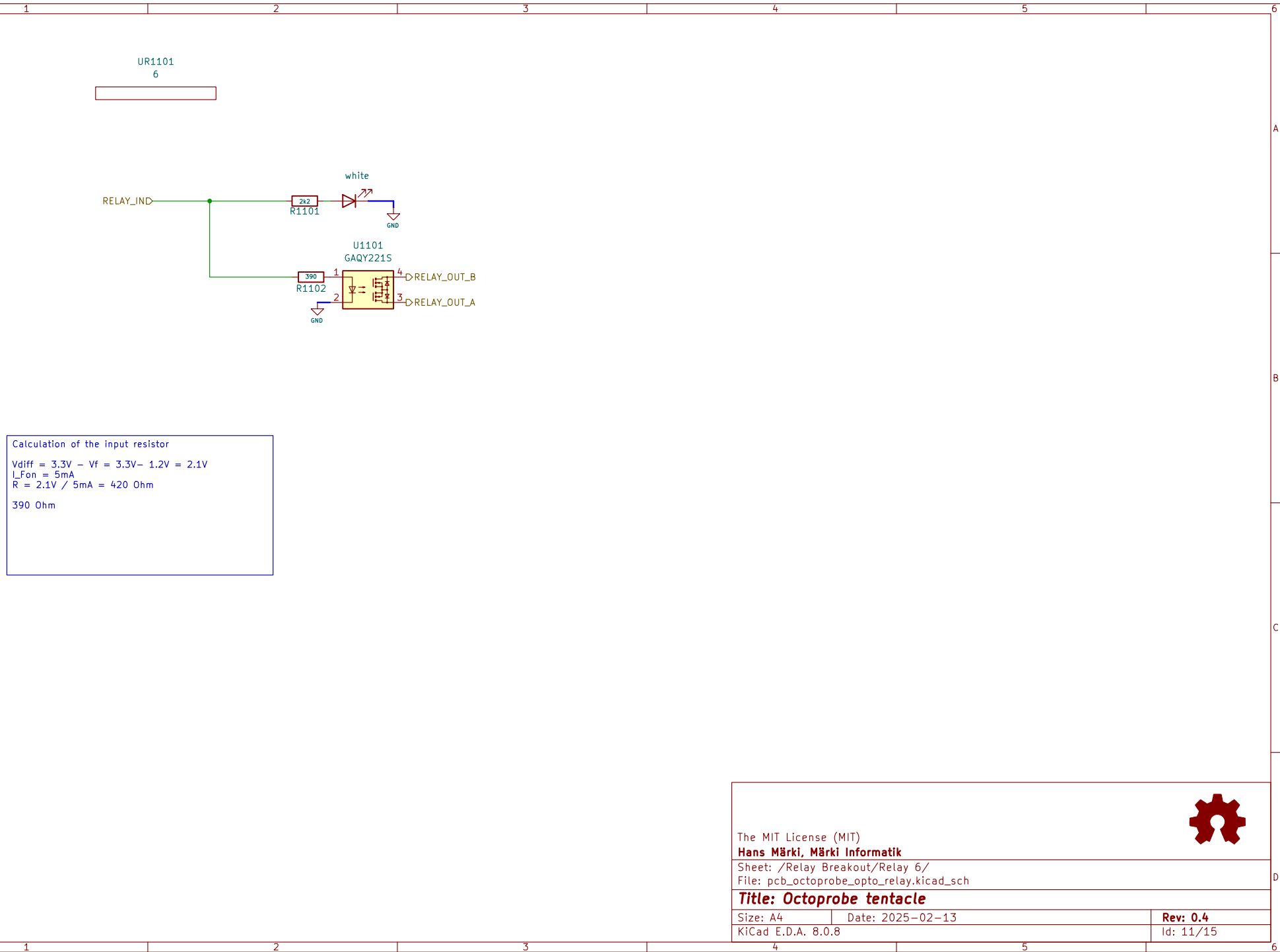
KiCad E.D.A. 8.0.8

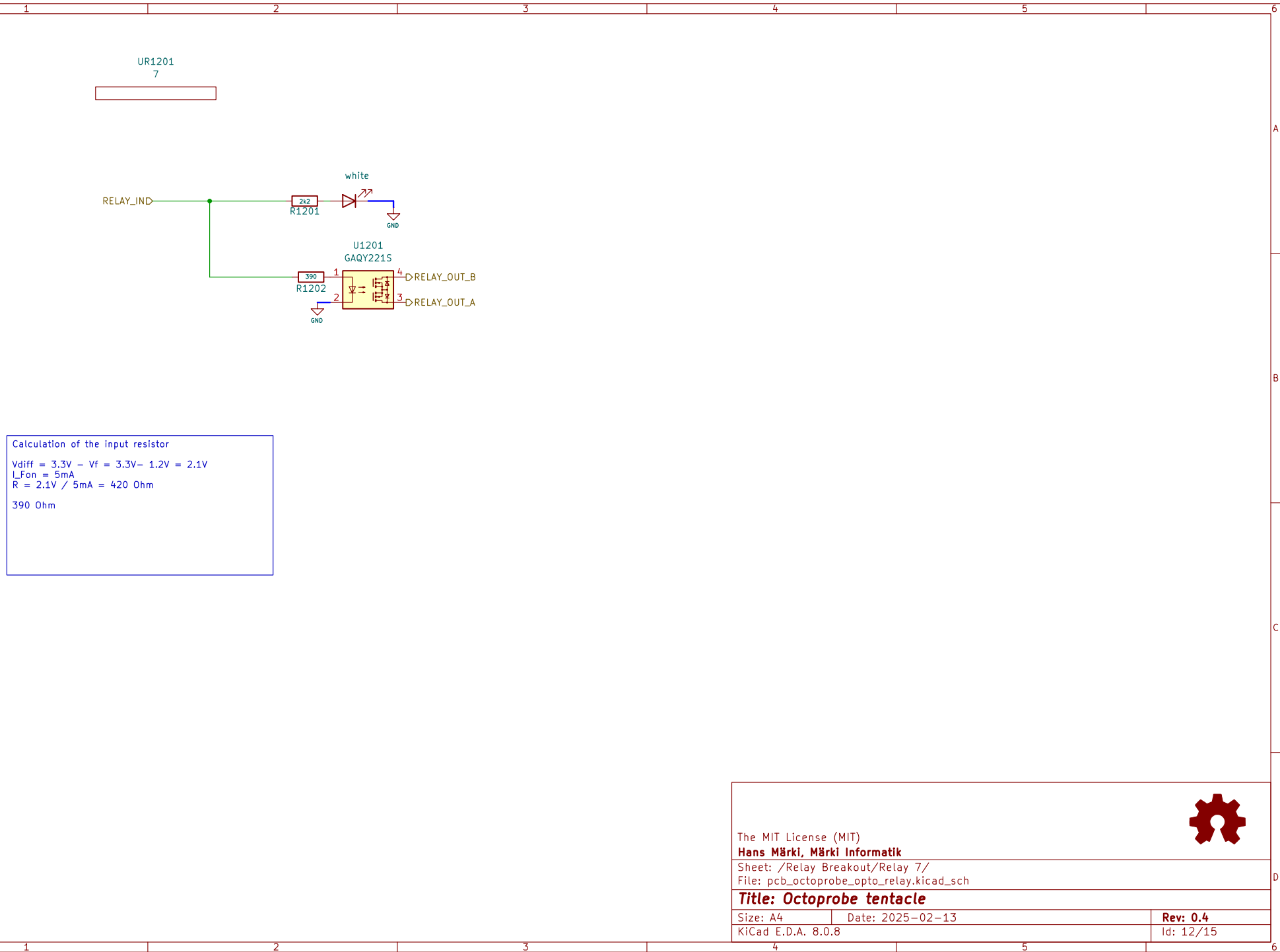
Id: 8/15

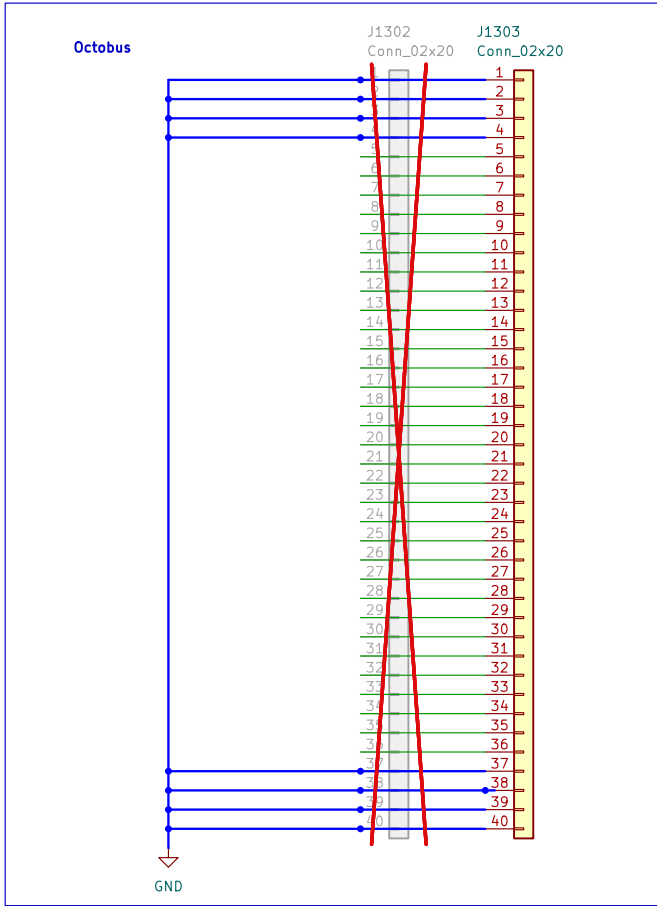
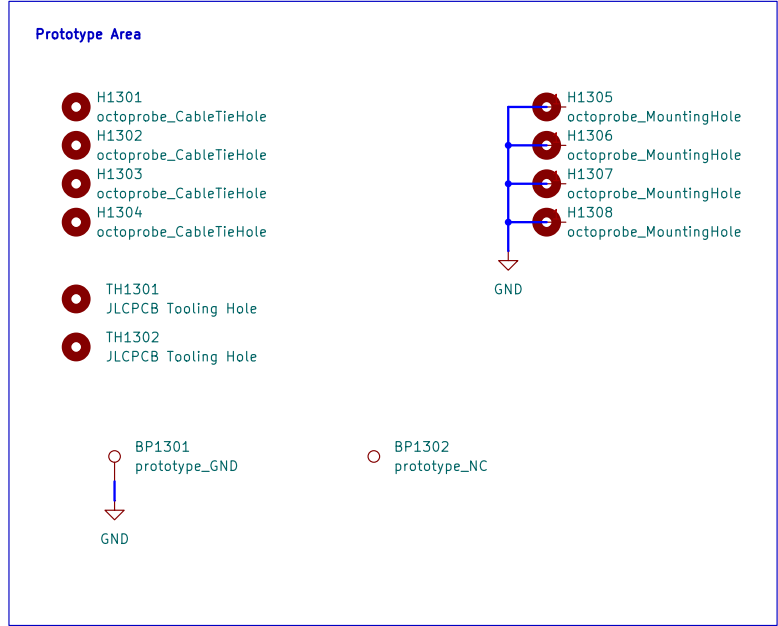


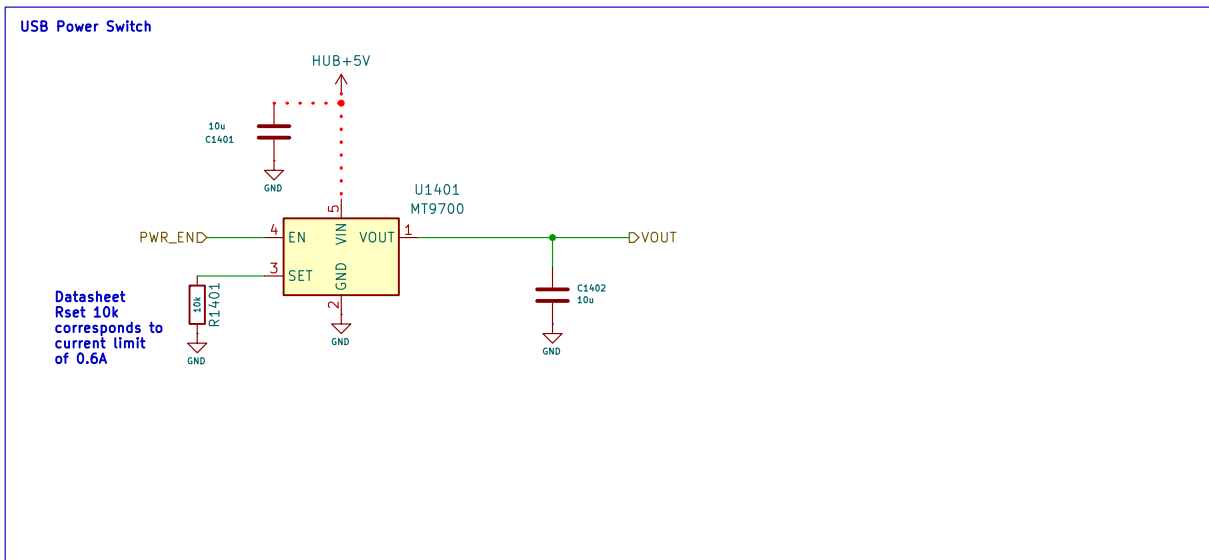












The MIT License (MIT)

**Hans Märki, Märki Informatik**

Sheet: /USB Power Switch DUT/

File: pcb\_octoprobe\_usbpowerswitch.kicad\_sch

**Title: Octoprobe tentacle**

Size: A4

Date: 2025-02-13

Rev: 0.4

KiCad E.D.A. 8.0.8

Id: 14/15

