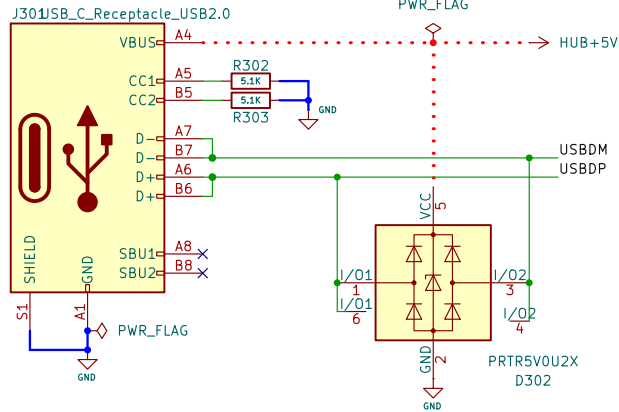




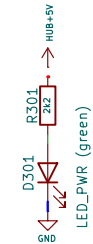


## USB C Female

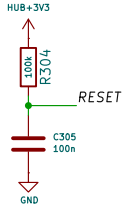
### USB Type-C DATA



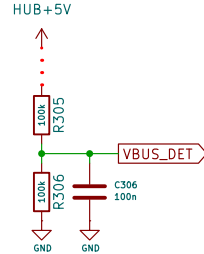
## Power LED



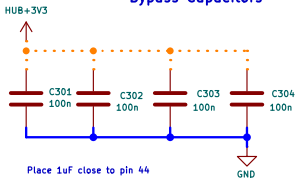
## Boot Sequence



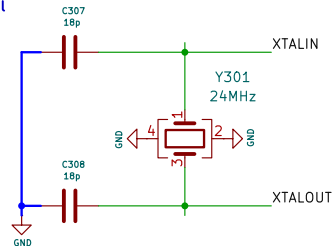
## VBUS\_DET



## Bypass Capacitors



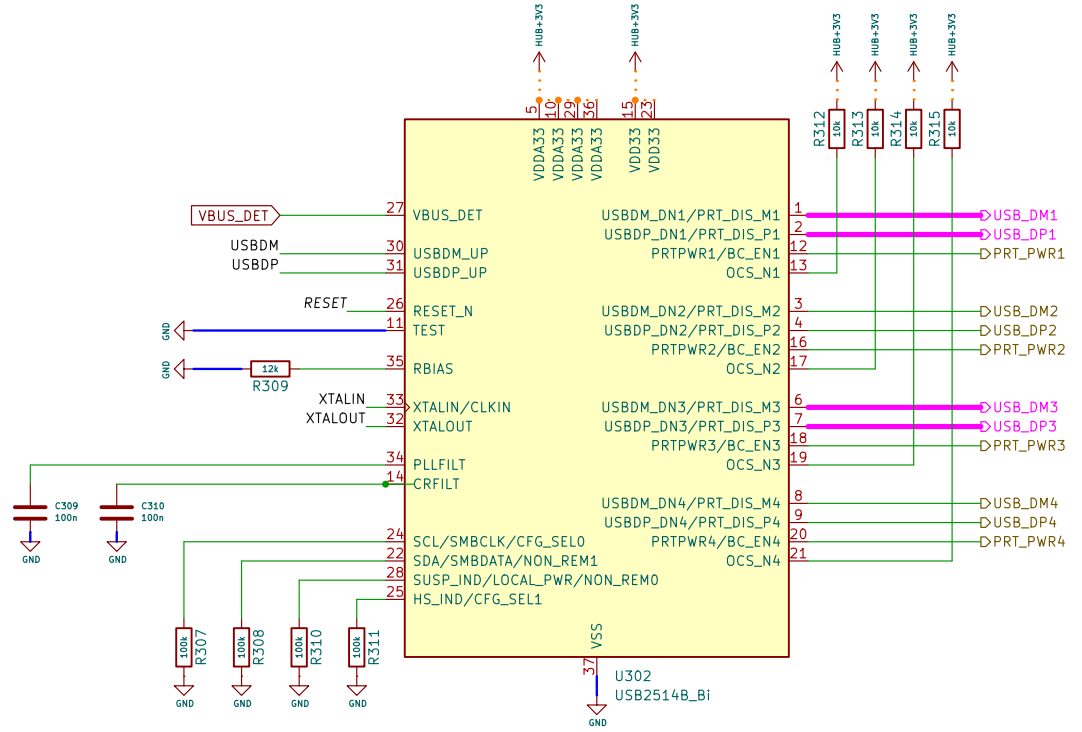
## Crystal



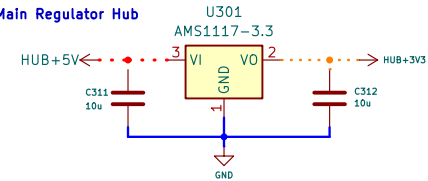
## POWER

Hub  
HUB+5V  
HUB+3V3  
RP2-Infra  
+5V  
+3V3

## Hub



## Main Regulator Hub



Microchip AN 15.17 "PCB Layout Guide for USB Hubs"

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

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Sheet: /USB Hub Chip/

File: pcb\_octoprobe\_usbhubchip.kicad\_sch

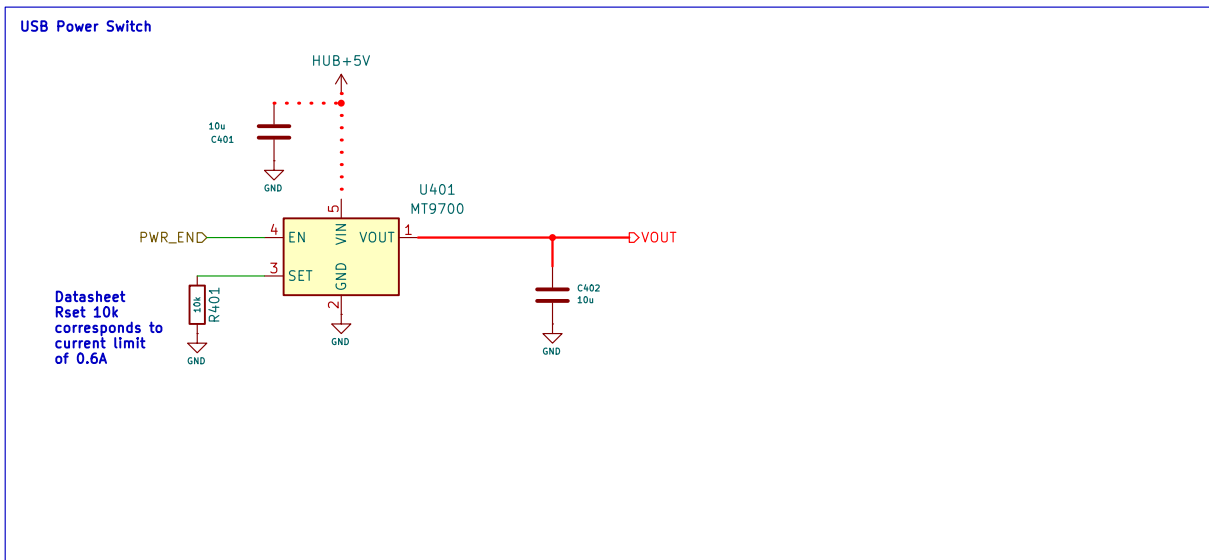
**Title: Octoprobe tentacle**

Size: A4 Date: 2024-08-04

KiCad E.D.A. 8.0.4

**Rev: 0.3**

Id: 1/14



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Sheet: /USB Power Switch RP2/

File: pcb\_octoprobe\_usbpowerswitch.kicad\_sch

**Title: Octoprobe tentacle**

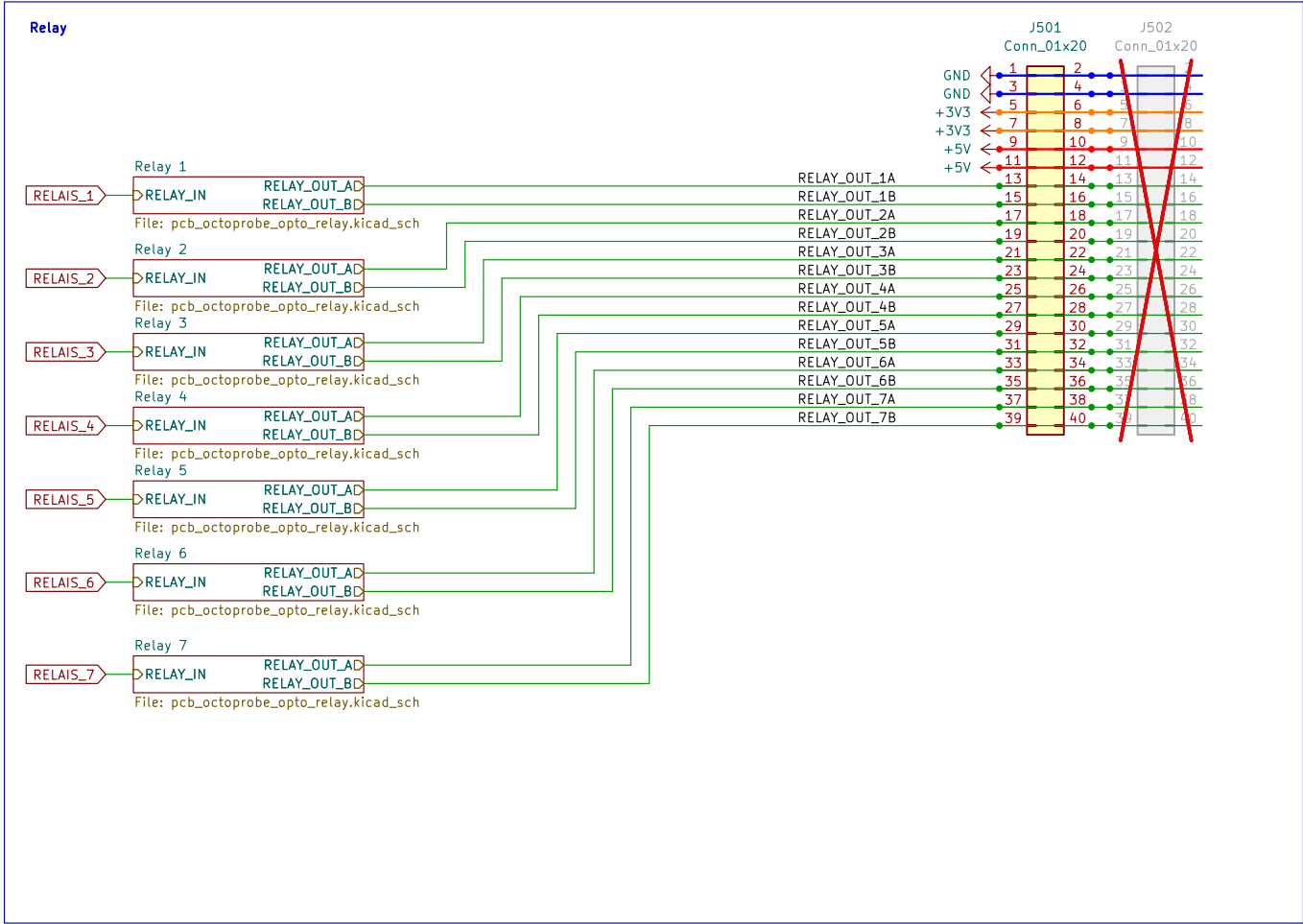
Size: A4

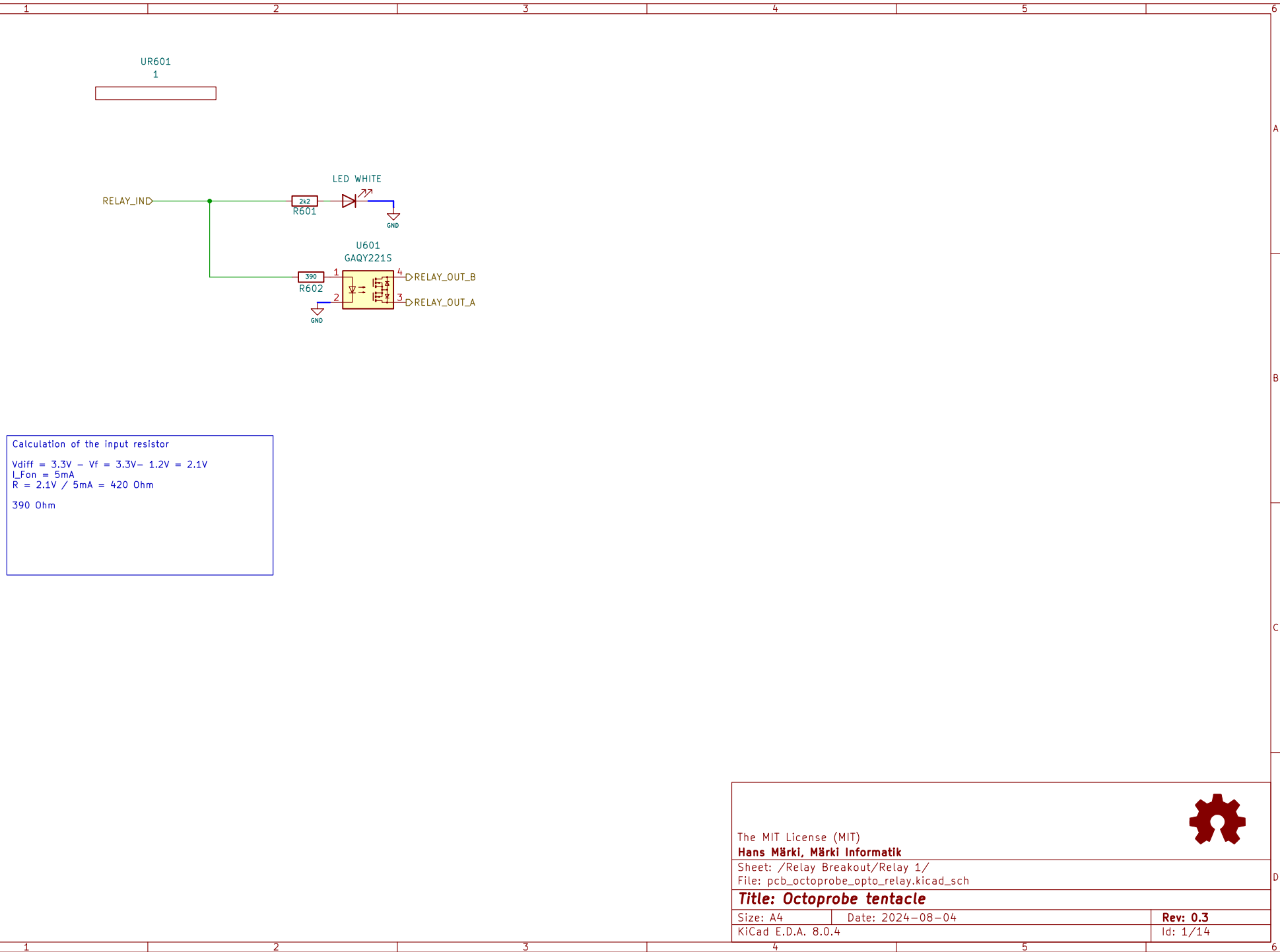
Date: 2024-08-04

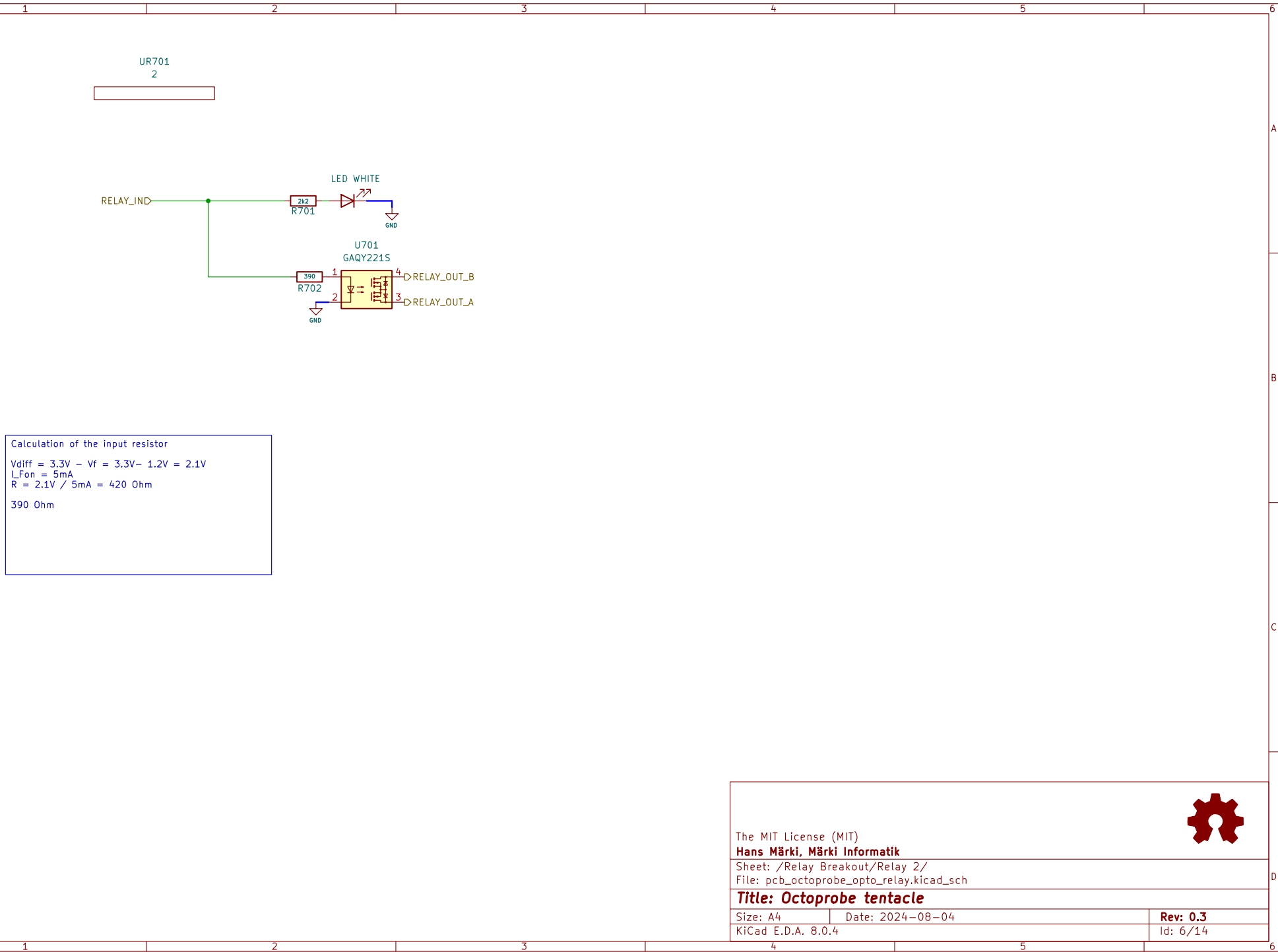
**Rev: 0.3**

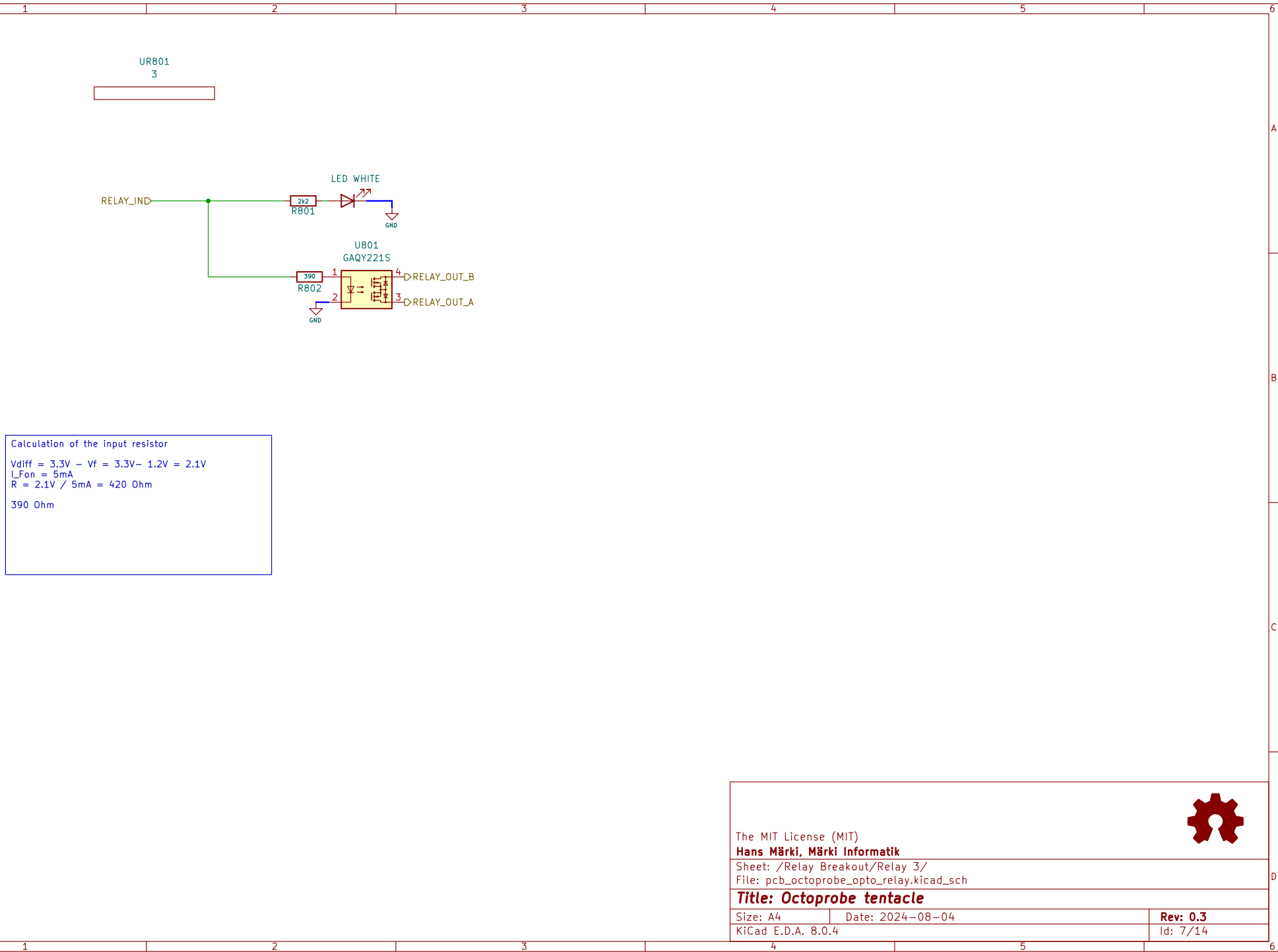
KiCad E.D.A. 8.0.4

Id: 1/14

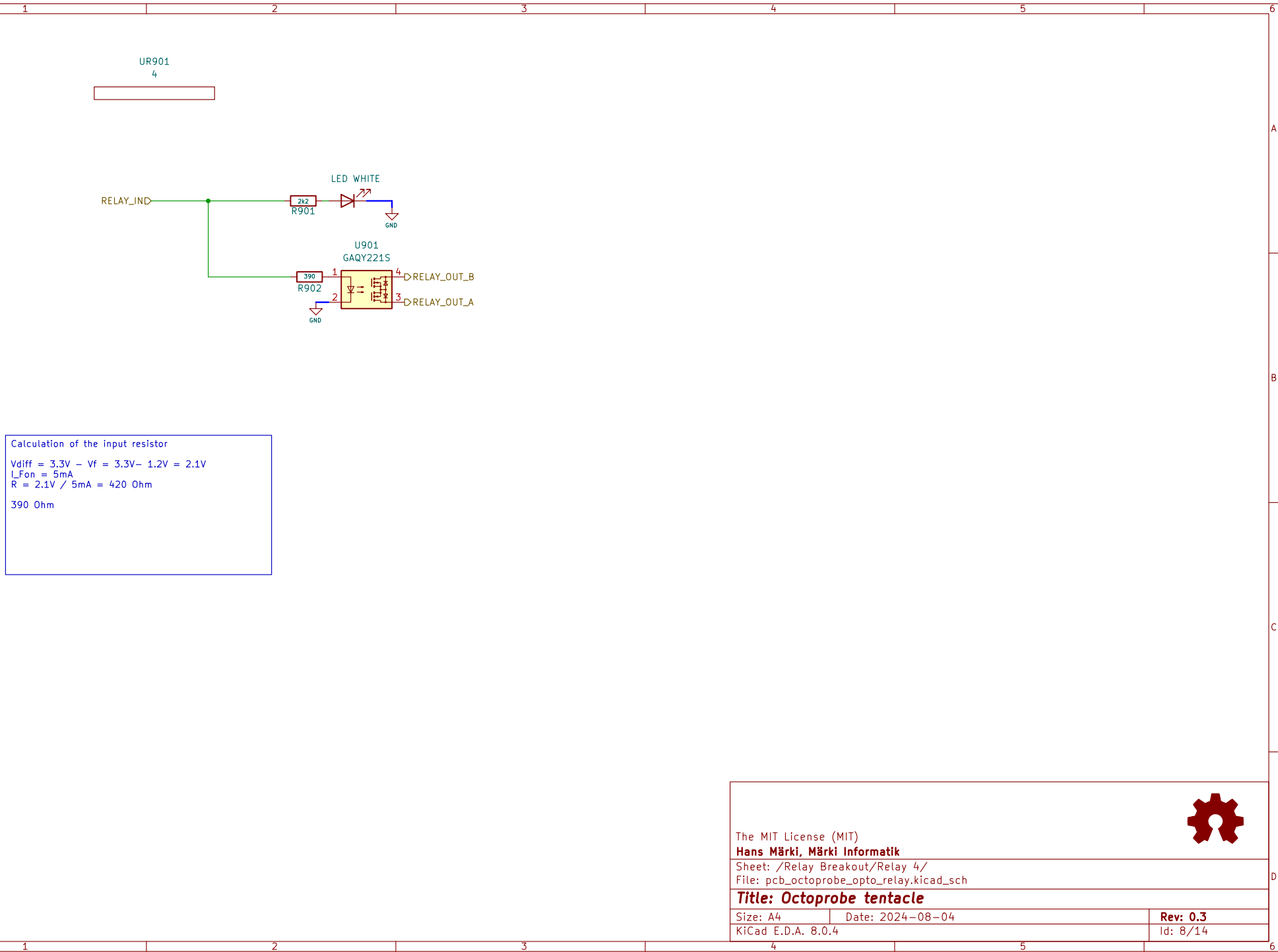


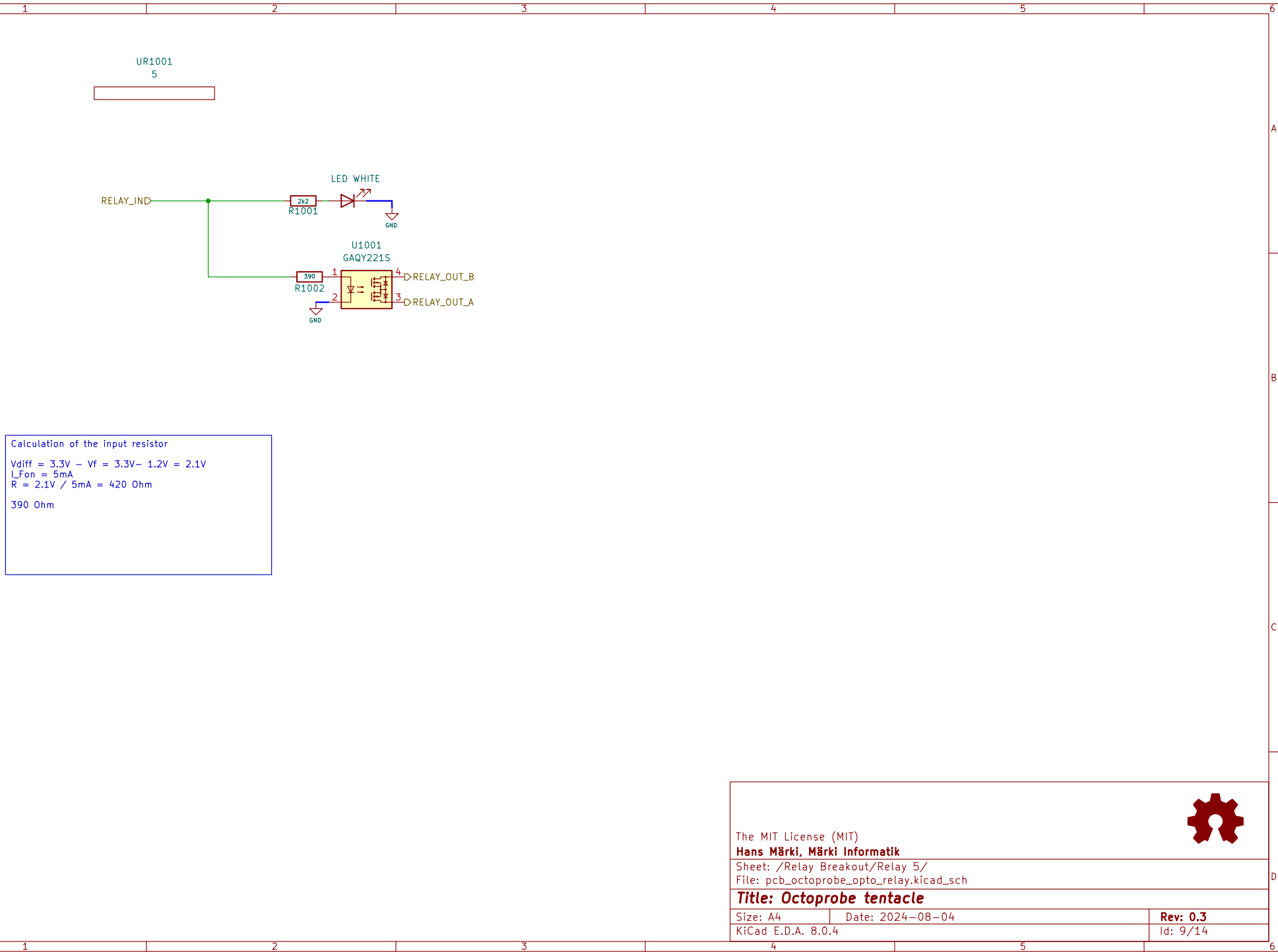


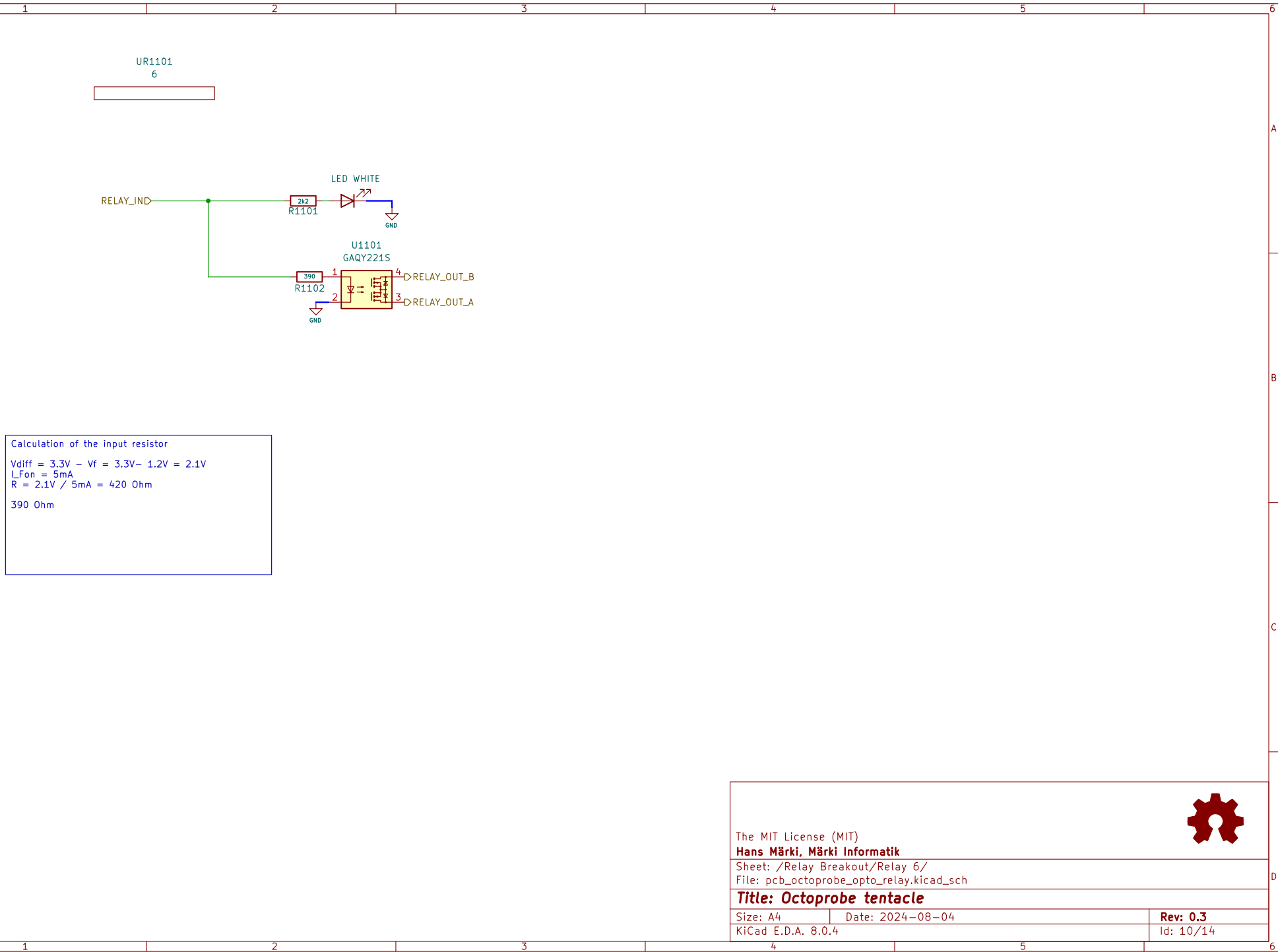


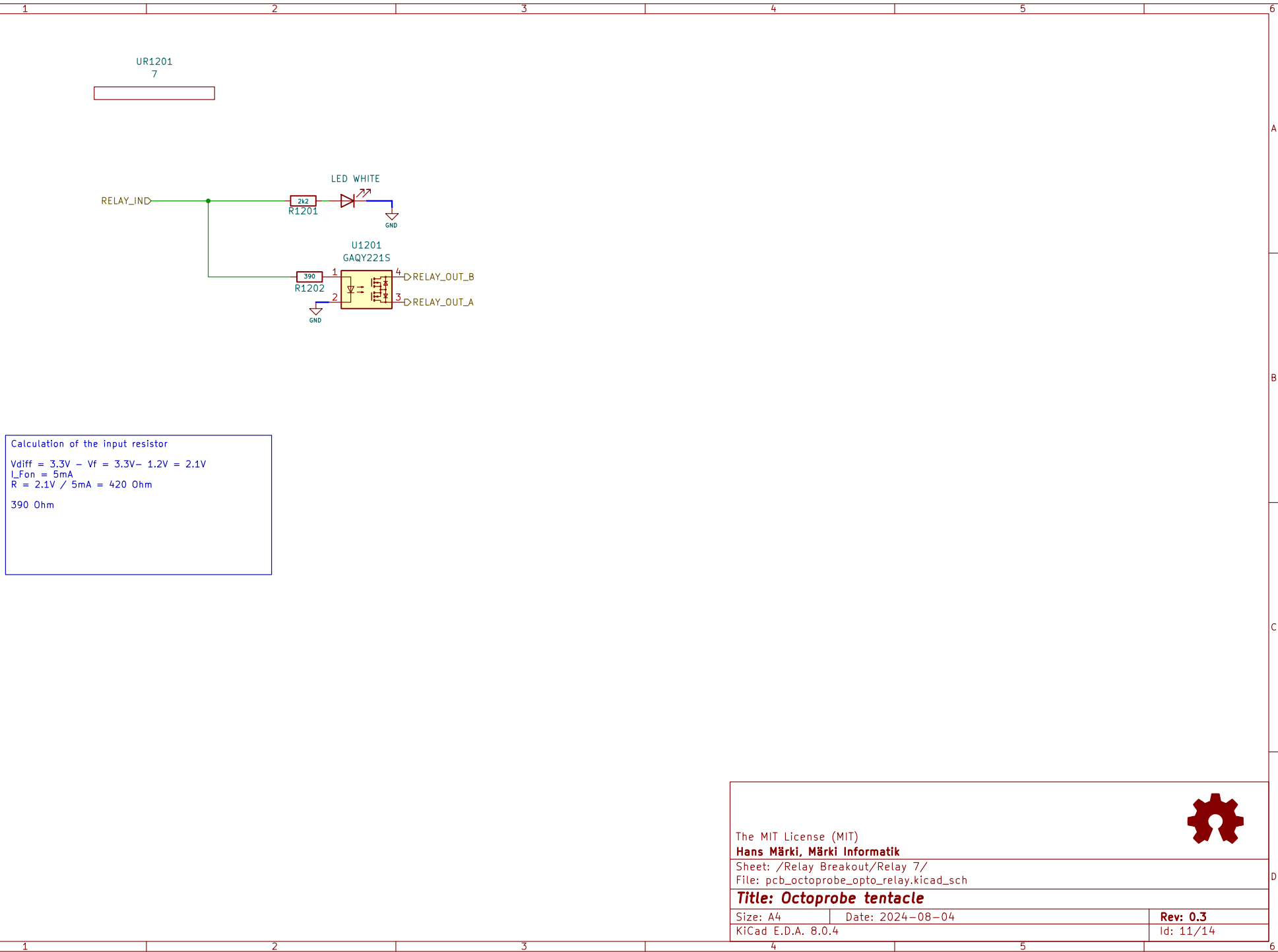


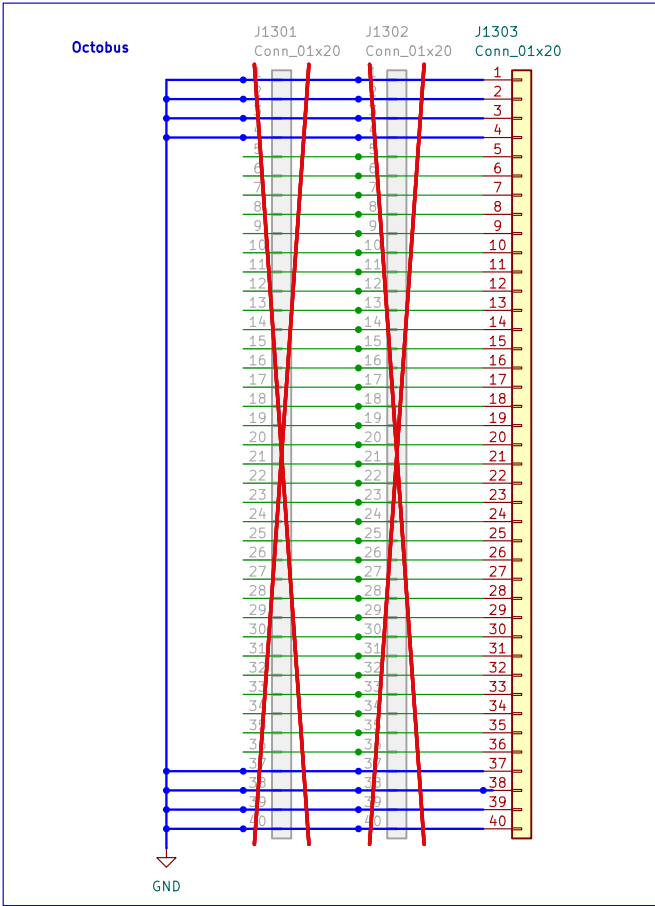
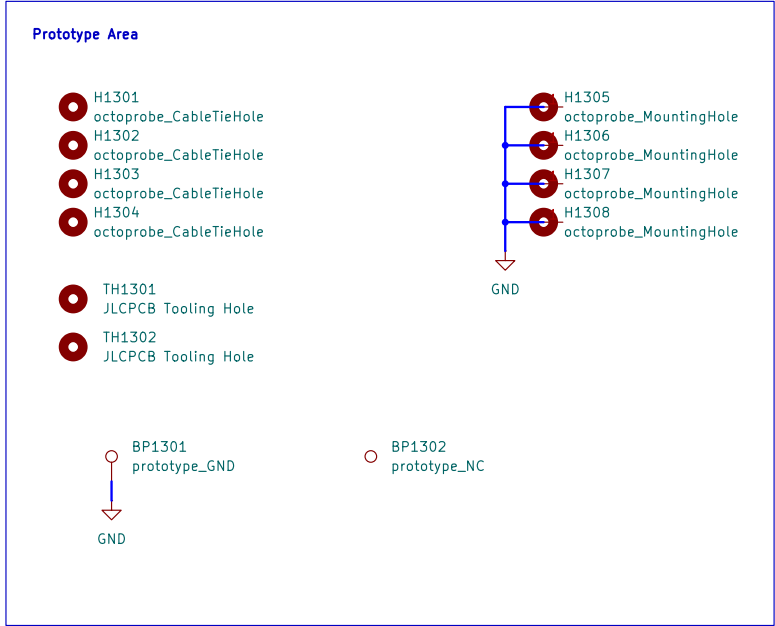


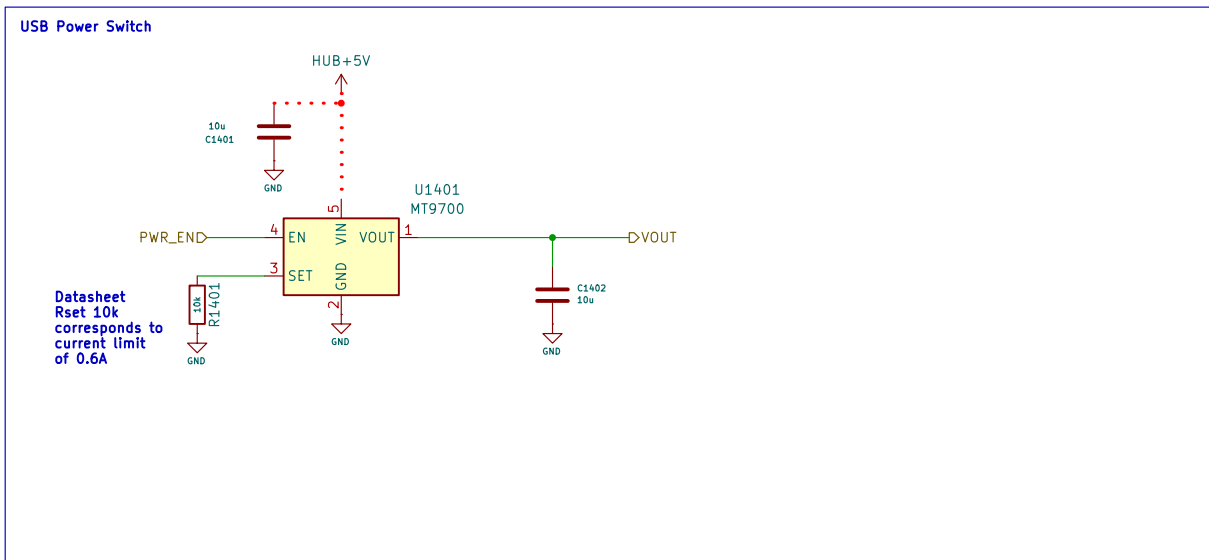












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Sheet: /USB Power Switch DUT/

File: pcb\_octoprobe\_usbpowerswitch.kicad\_sch

**Title: Octoprobe tentacle**

Size: A4

Date: 2024-08-04

Rev: 0.3

KiCad E.D.A. 8.0.4

Id: 4/14