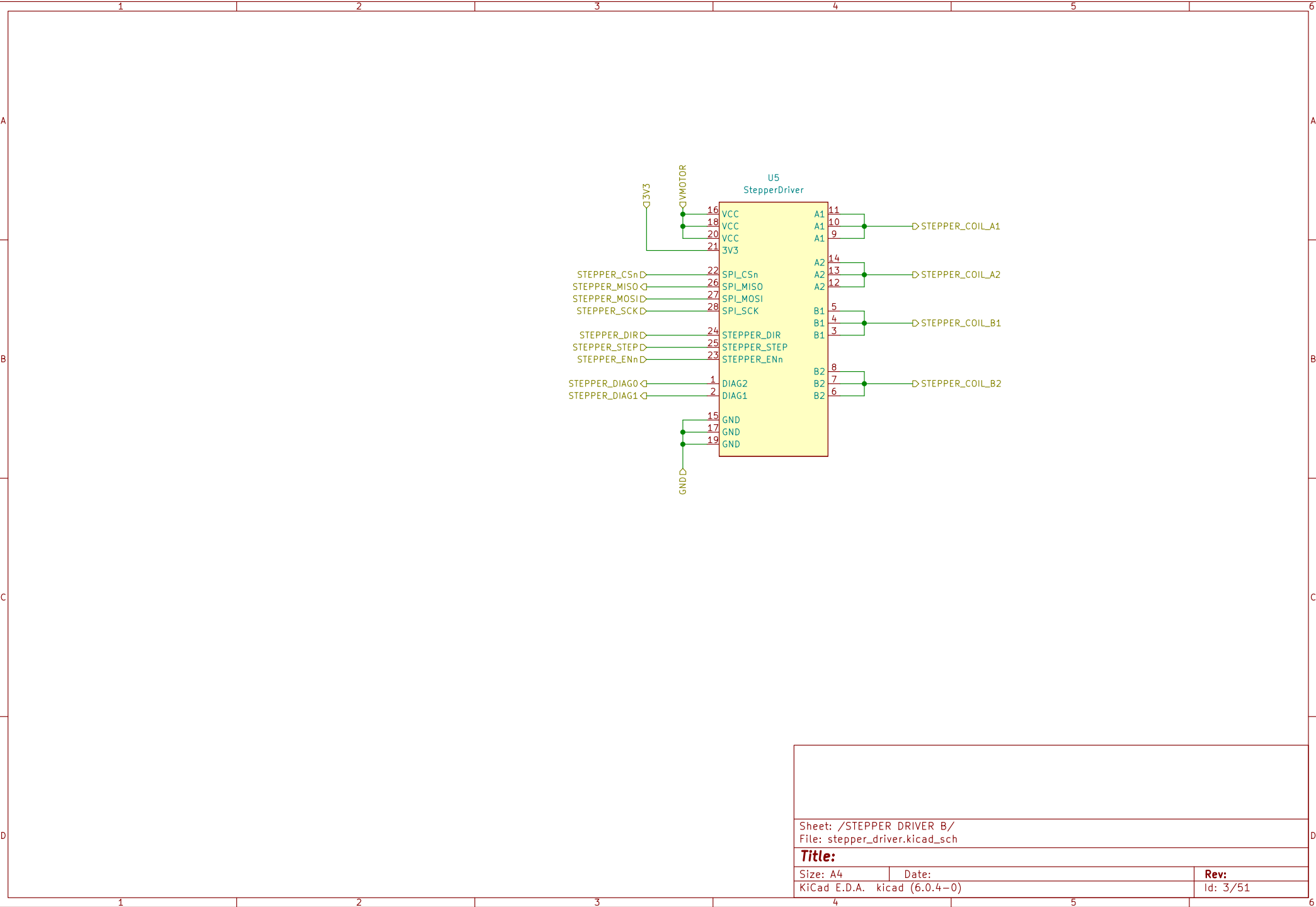


Sheet: /STEPPER DRIVER Y/  
File: stepper\_driver.kicad\_sch

**Title:**

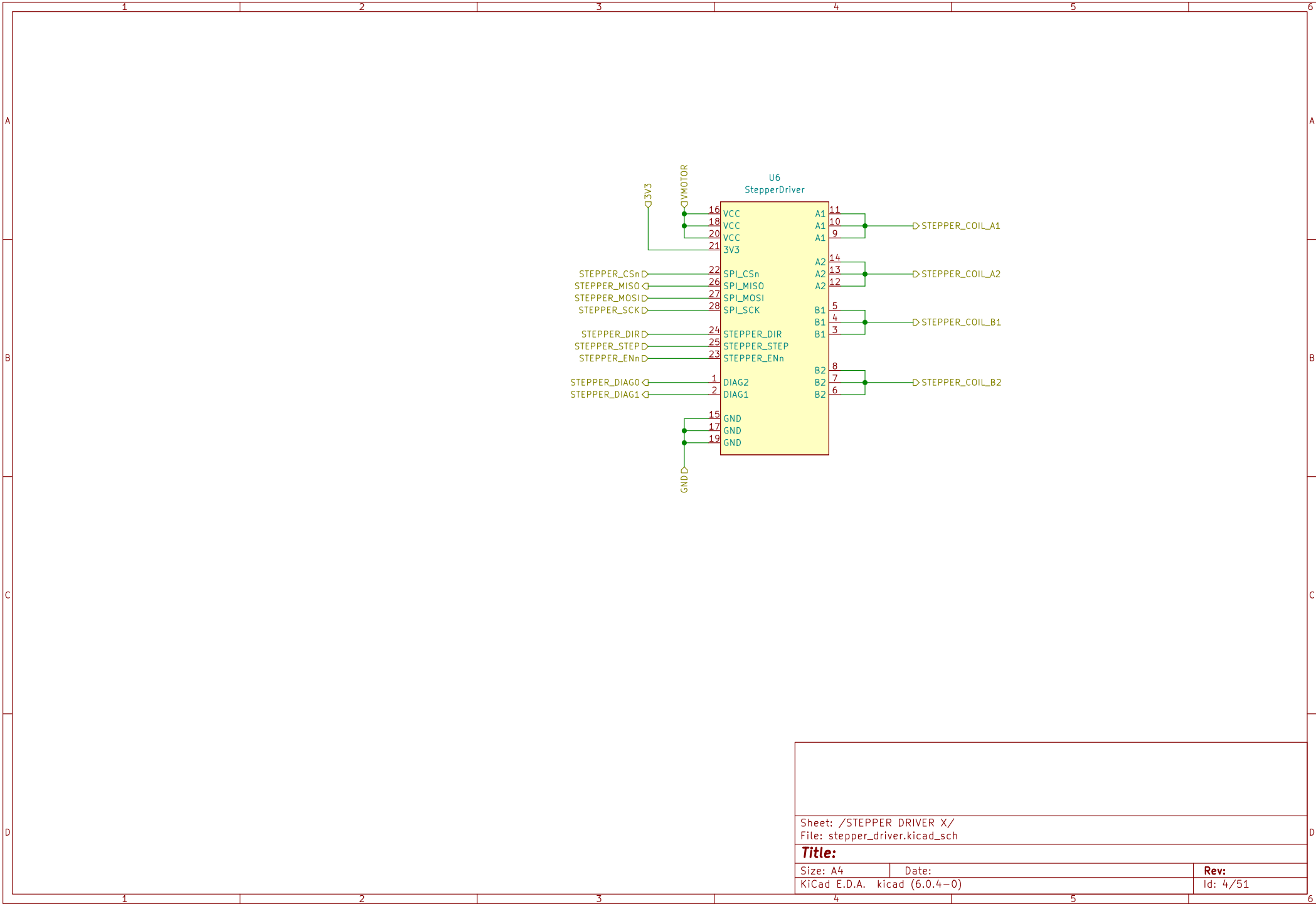
Size: A4	Date:	Rev:
KiCad E.D.A. kicad (6.0.4-0)		Id: 2/51

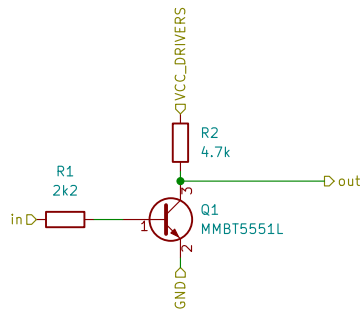


Sheet: /STEPPER DRIVER B/  
File: stepper\_driver.kicad\_sch

**Title:**

Size: A4	Date:	Rev:
KiCad E.D.A. kicad (6.0.4-0)		Id: 3/51





Sheet: /level\_shifter\_x3\_B/level\_shifter\_1/  
File: level\_shifter.kicad\_sch

**Title:**

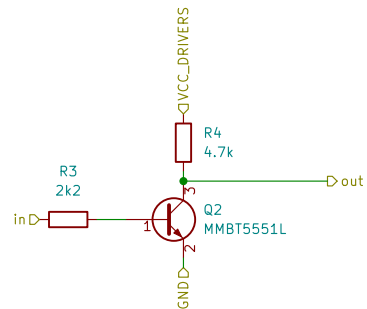
Size: A4

Date:

KiCad E.D.A. kicad (6.0.4-0)

**Rev:**

Id: 5/51



Sheet: /level\_shifter\_x3\_B/level\_shifter\_2/  
File: level\_shifter.kicad\_sch

**Title:**

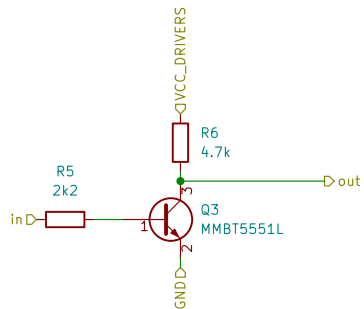
Size: A4

Date:

KiCad E.D.A. kicad (6.0.4-0)

**Rev:**

Id: 6/51



Sheet: /level\_shifter\_x3\_B/level\_shifter\_3/  
File: level\_shifter.kicad\_sch

**Title:**

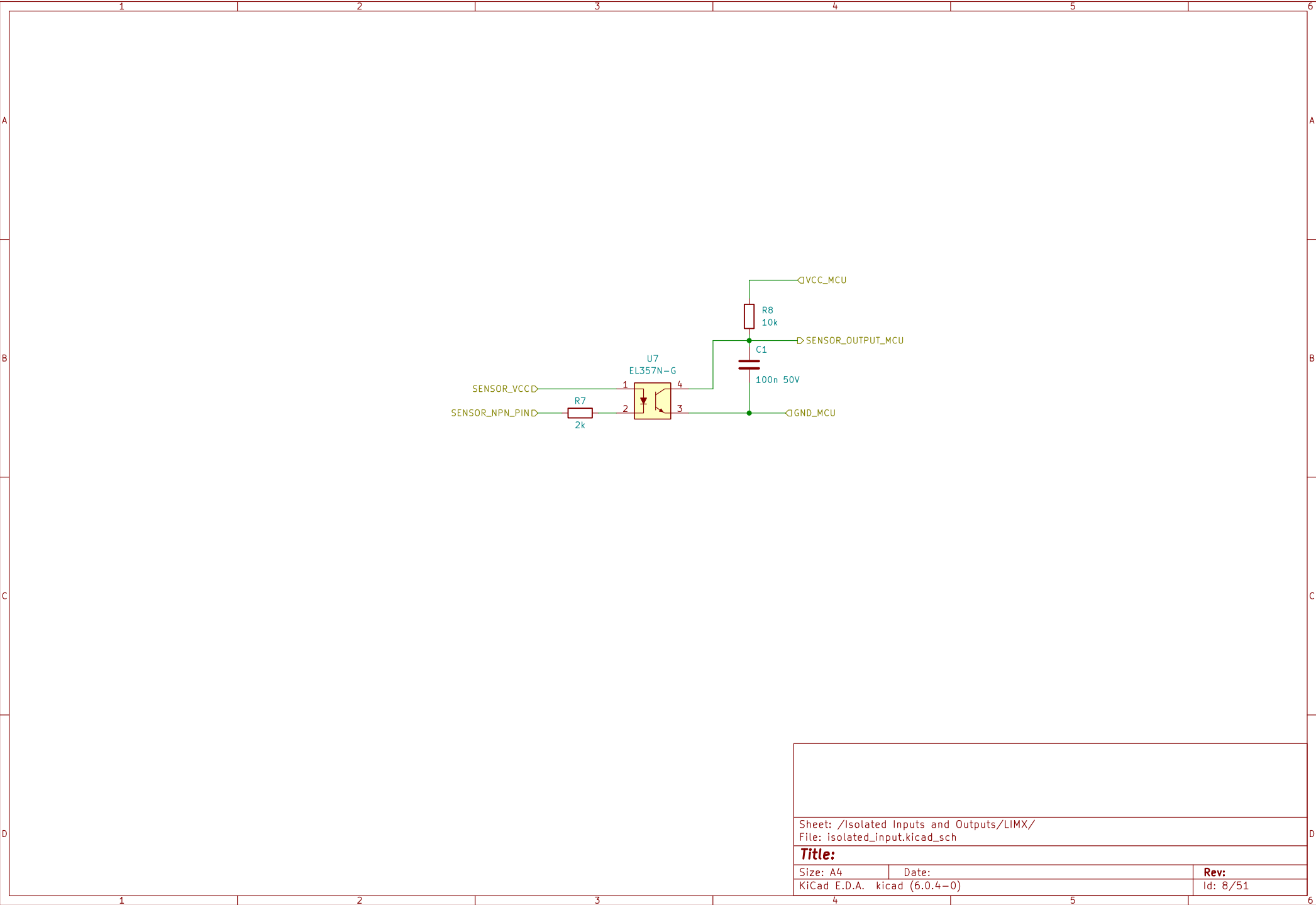
Size: A4

Date:

KiCad E.D.A. kicad (6.0.4-0)

**Rev:**

Id: 7/51

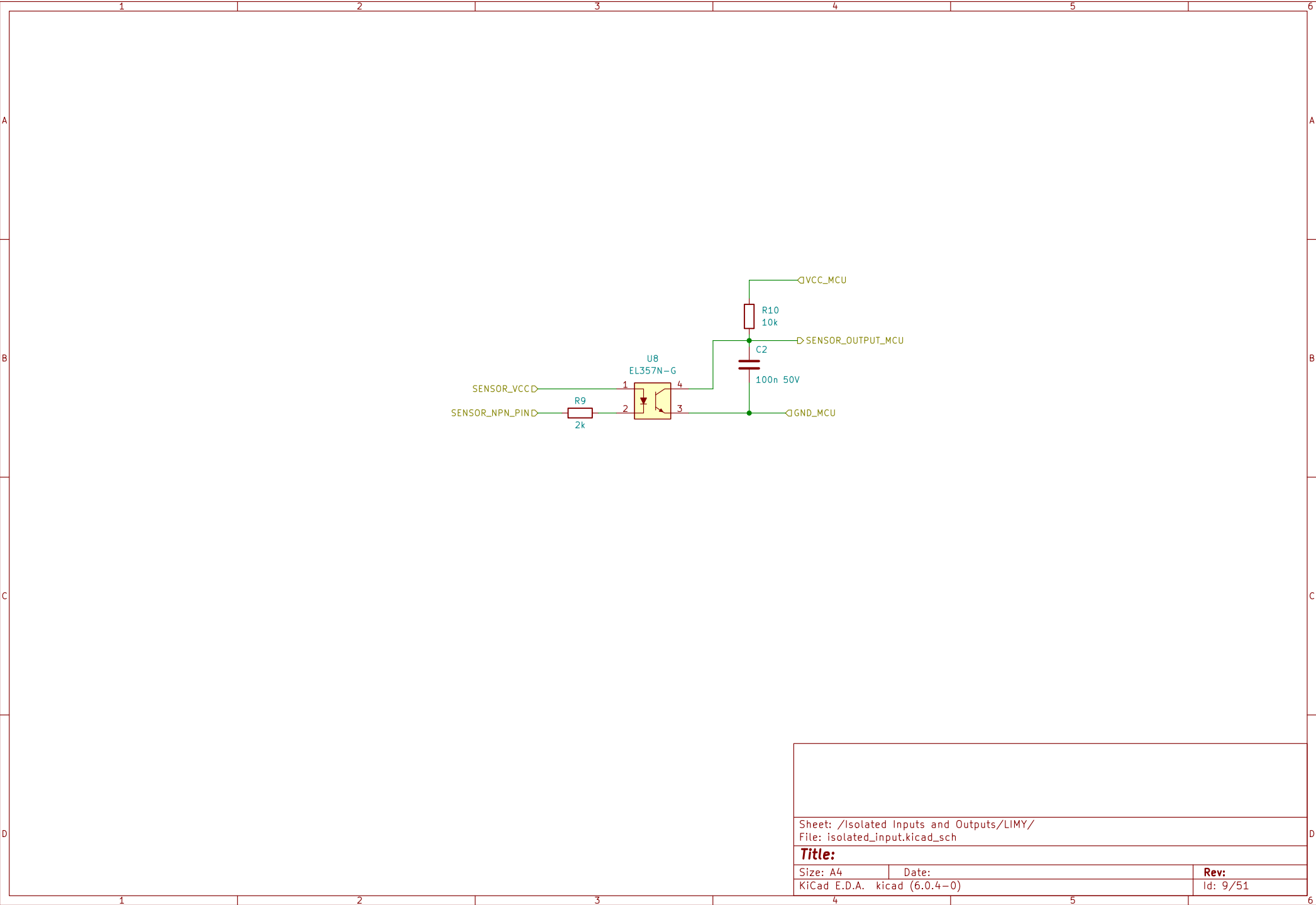


Sheet: /Isolated Inputs and Outputs/LIMX/  
File: isolated\_input.kicad\_sch

**Title:**

Size: A4	Date:	Rev:
KiCad E.D.A. kicad (6.0.4-0)		Id: 8/51

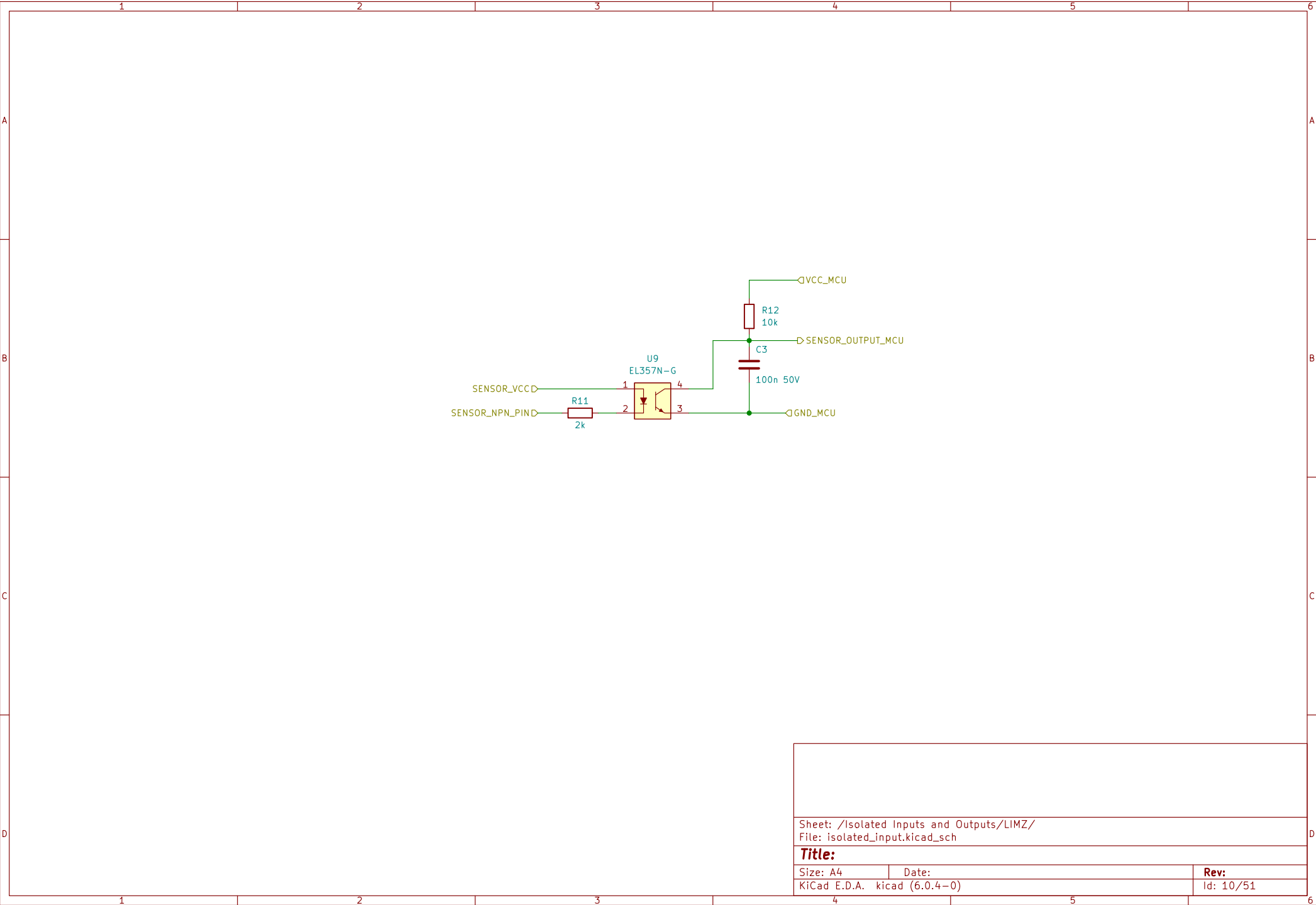




Sheet: /Isolated Inputs and Outputs/LIMY/  
File: isolated\_input.kicad\_sch

**Title:**

Size: A4	Date:	Rev:
KiCad E.D.A. kicad (6.0.4-0)		Id: 9/51



Sheet: /Isolated Inputs and Outputs/LIMZ/  
File: isolated\_input.kicad\_sch

**Title:**

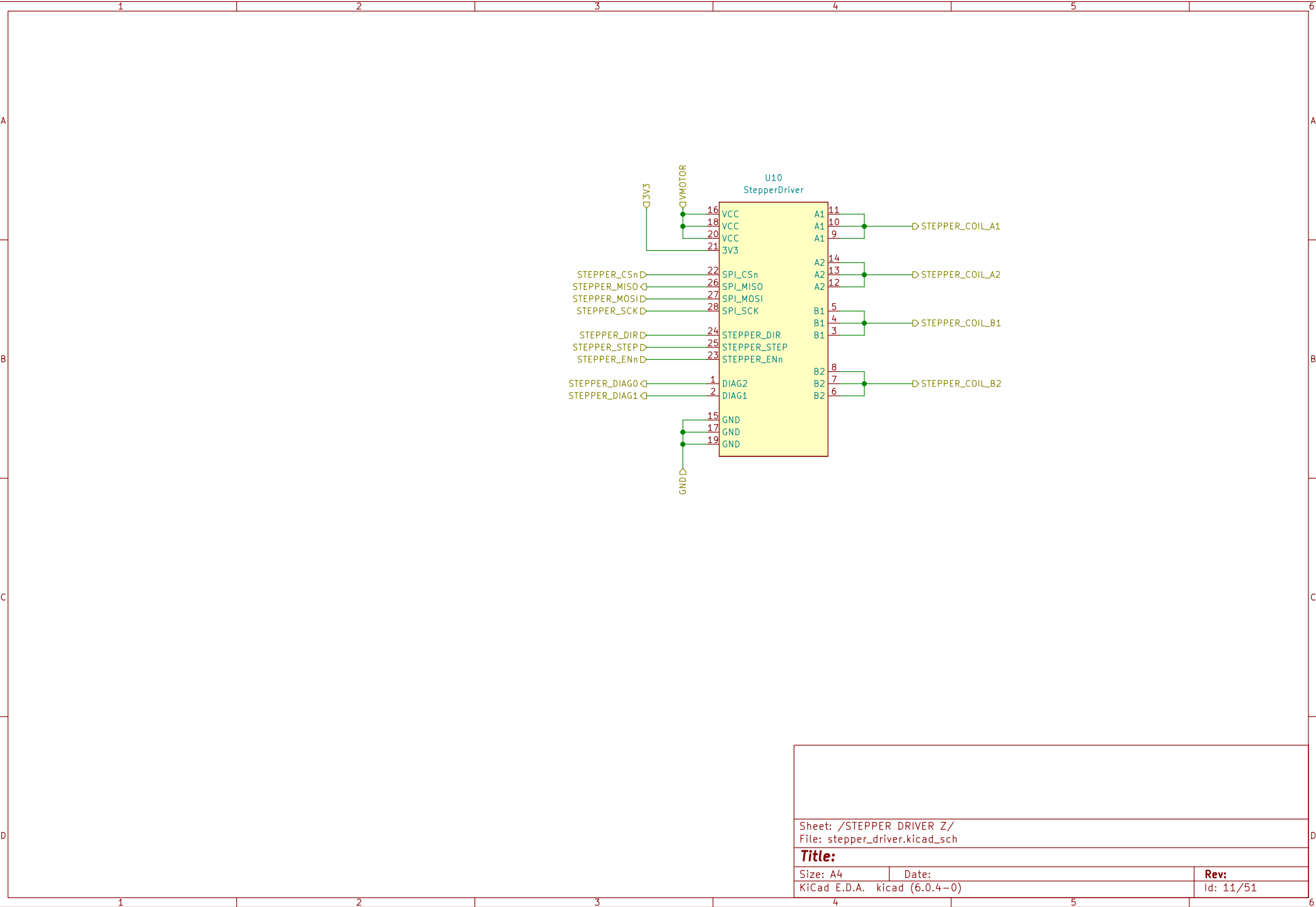
Size: A4

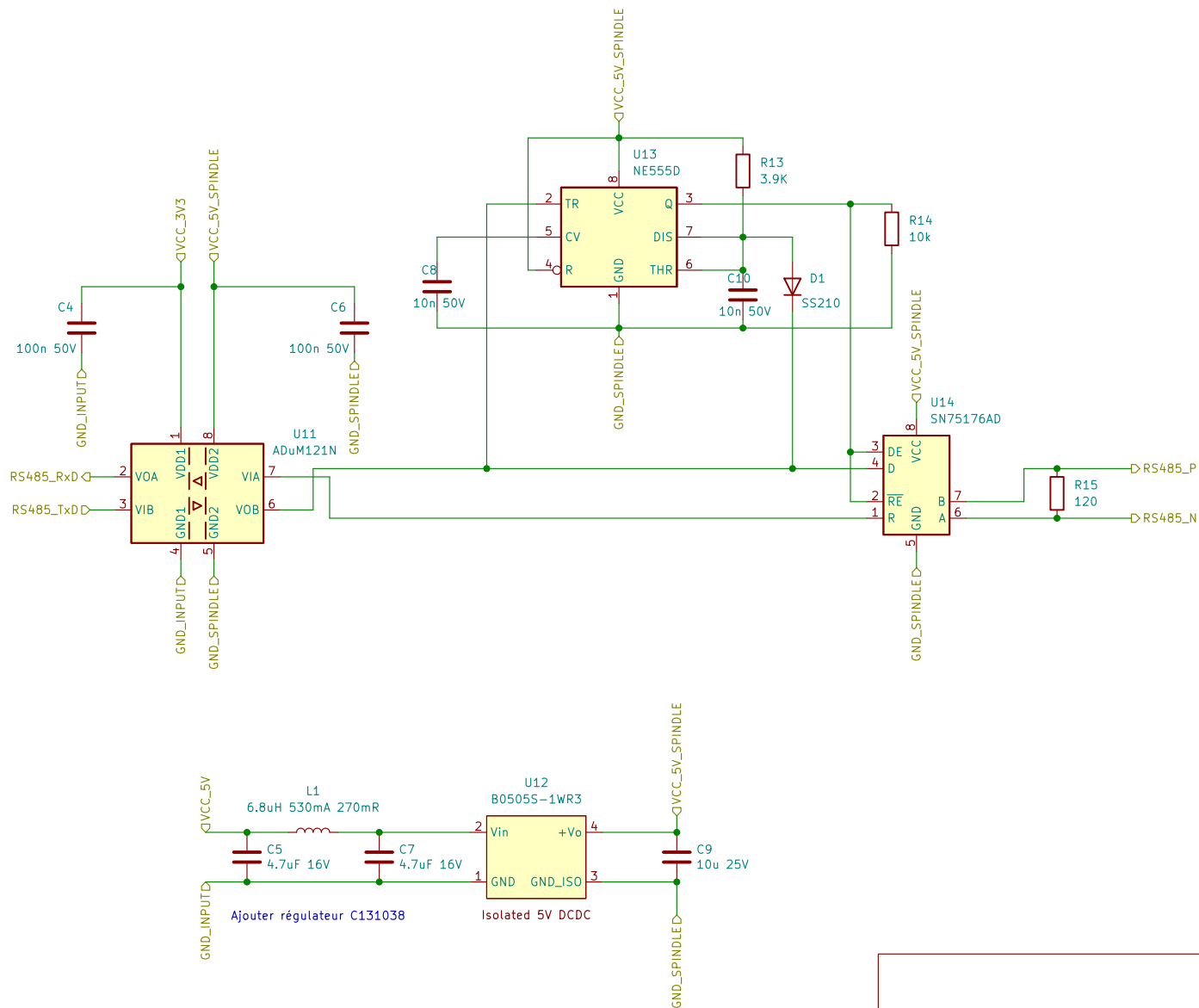
Date:

KiCad E.D.A. kicad (6.0.4-0)

**Rev:**

Id: 10/51





Sheet: /Spindle Isolated RS485/  
File: isolated\_rs485.kicad\_sch

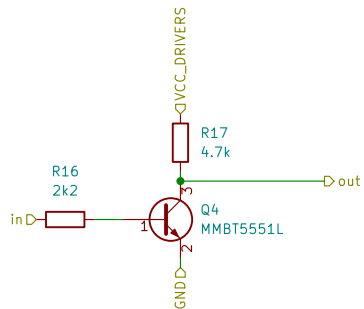
# **Title:**

Size: A4  
KiCad E.D.A. kicad (6.0.4-0)

Date:

Rev:

Id: 12/51



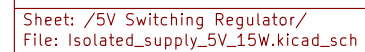
Sheet: /level\_shifter\_x3\_A/level\_shifter\_1/  
File: level\_shifter.kicad\_sch

**Title:**

Size: A4  
KiCad E.D.A. kicad (6.0.4-0)

Date:

Rev:  
Id: 13/51

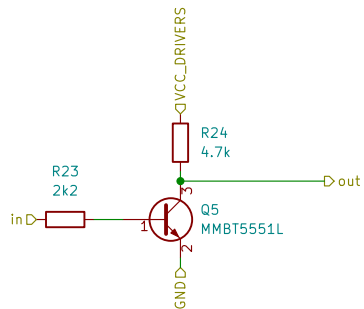


Size: A4	Date:
KiCad E.D.A. kicad (6.0.4-0)	

ad (6.0.4-0)

Id: 14/51





Sheet: /level\_shifter\_x3\_A/level\_shifter\_2/  
File: level\_shifter.kicad\_sch

**Title:**

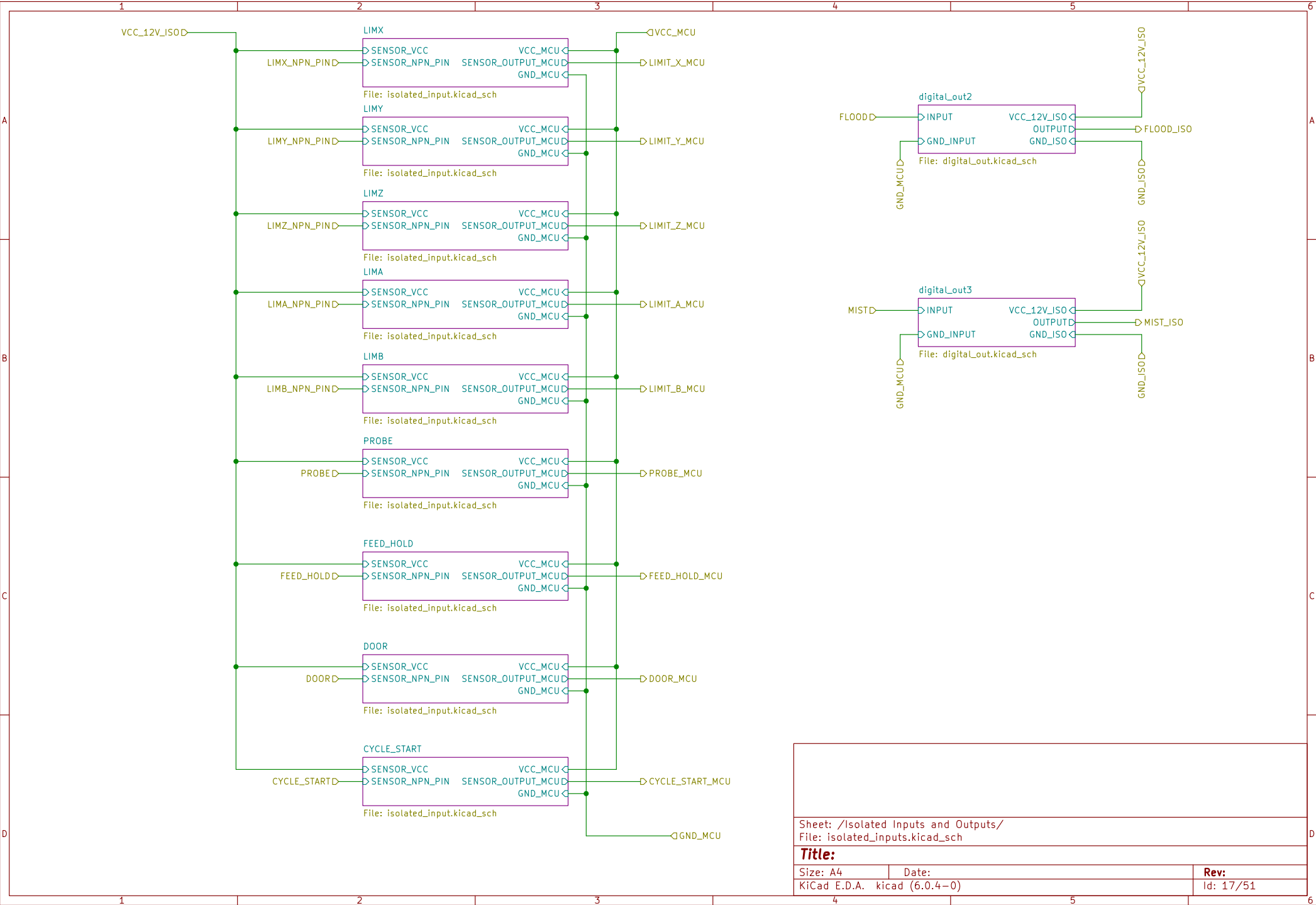
Size: A4  
KiCad E.D.A. kicad (6.0.4-0)

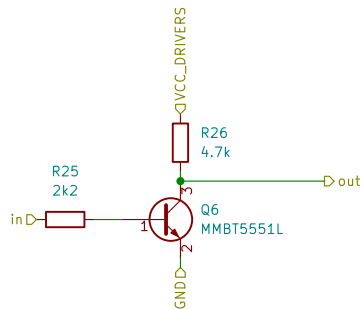
Date:

**Rev:**

Id: 16/51







Sheet: /level\_shifter\_x3\_A/level\_shifter\_3/  
File: level\_shifter.kicad\_sch

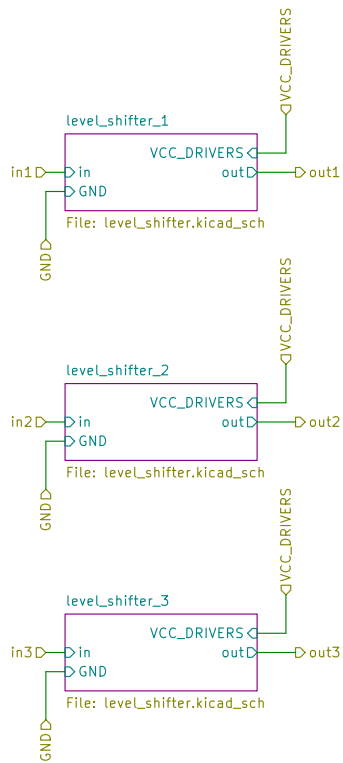
**Title:**

Size: A4  
KiCad E.D.A. kicad (6.0.4-0)

Date:

**Rev:**

Id: 18/51



Sheet: /level\_shifter\_x3\_A/  
File: level\_shifter\_x3.kicad\_sch

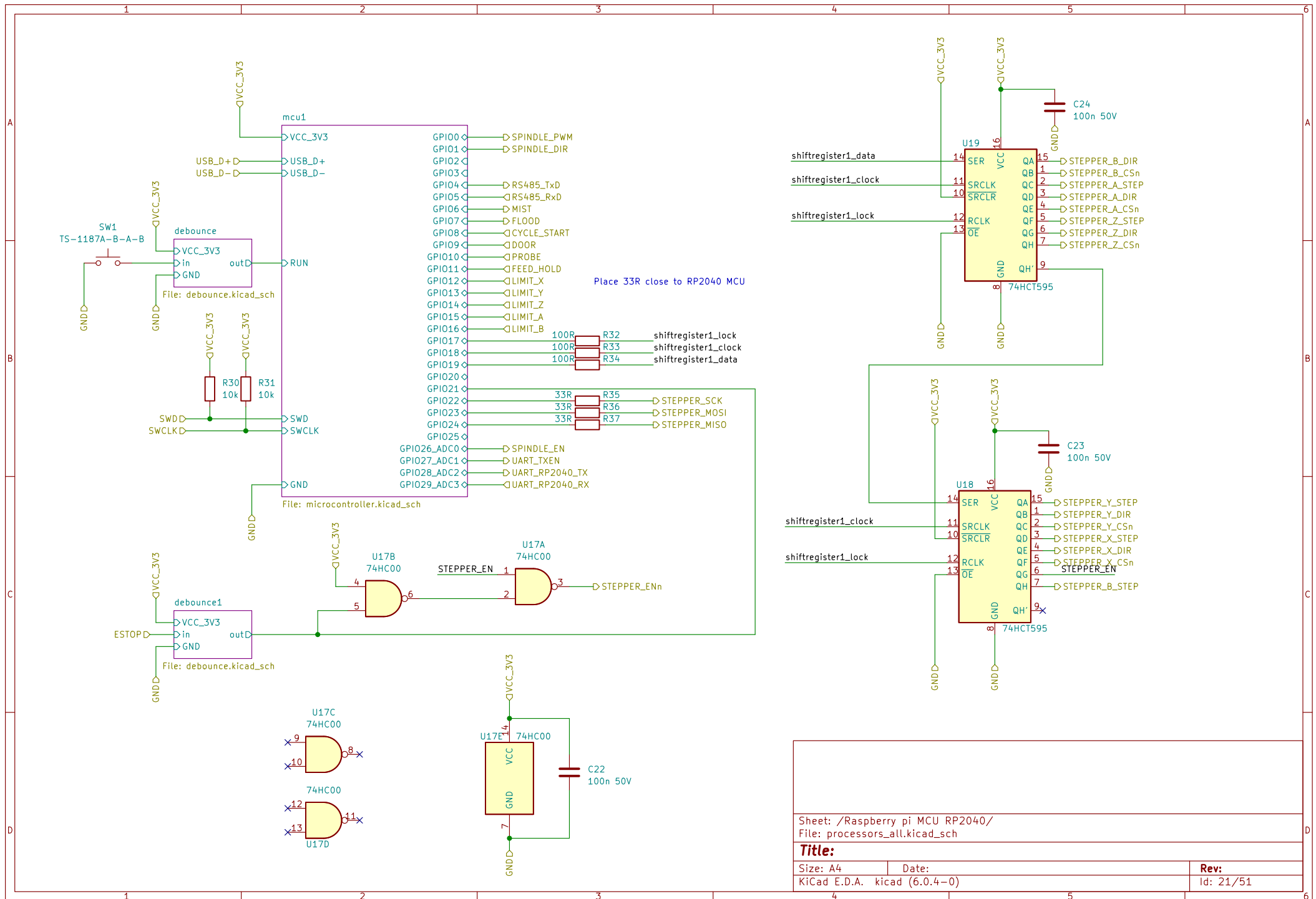
**Title:**

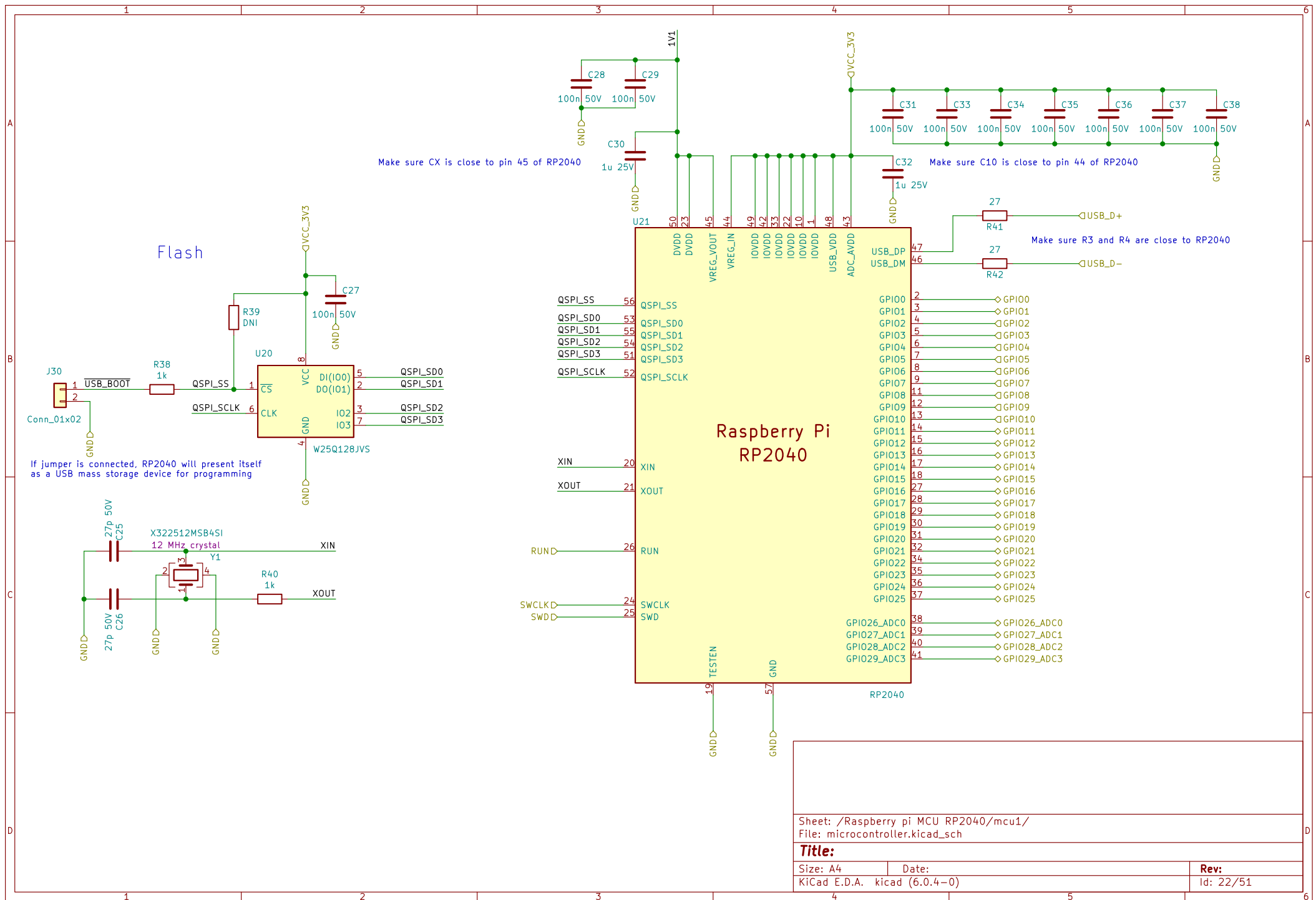
Size: A4  
KiCad E.D.A. kicad (6.0.4-0)

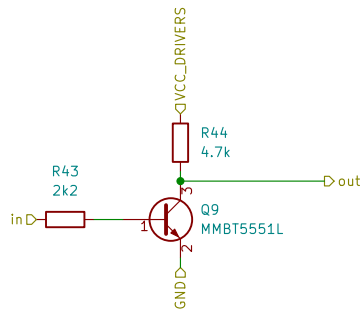
Date:

Rev:  
Id: 19/51









Sheet: /level\_shifter\_x3\_Z/level\_shifter\_1/  
File: level\_shifter.kicad\_sch

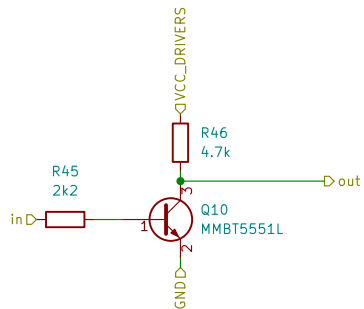
**Title:**

Size: A4  
KiCad E.D.A. kicad (6.0.4-0)

Date:

**Rev:**

Id: 23/51

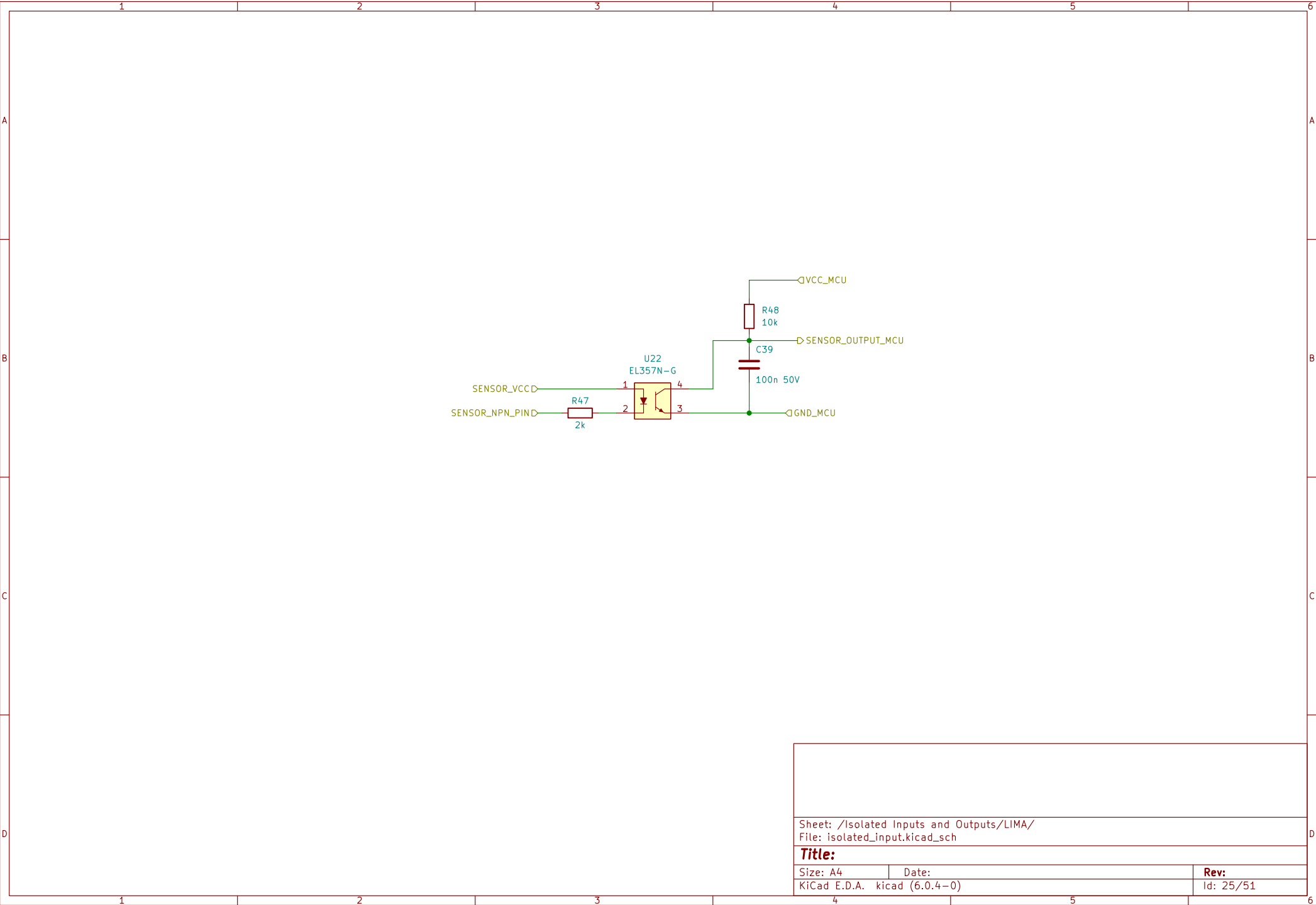


Sheet: /level\_shifter\_x3\_Z/level\_shifter\_2/  
File: level\_shifter.kicad\_sch

**Title:**

Size: A4	Date:	Rev:
KiCad E.D.A. kicad (6.0.4-0)		Id: 24/51





Sheet: /Isolated Inputs and Outputs/LIMA/  
File: isolated\_input.kicad\_sch

**Title:**

Size: A4

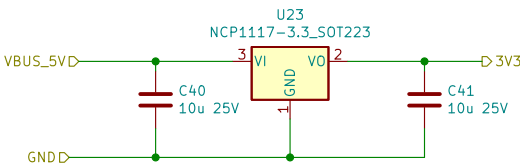
Date:

KiCad E.D.A. kicad (6.0.4-0)

**Rev:**

Id: 25/51

Power



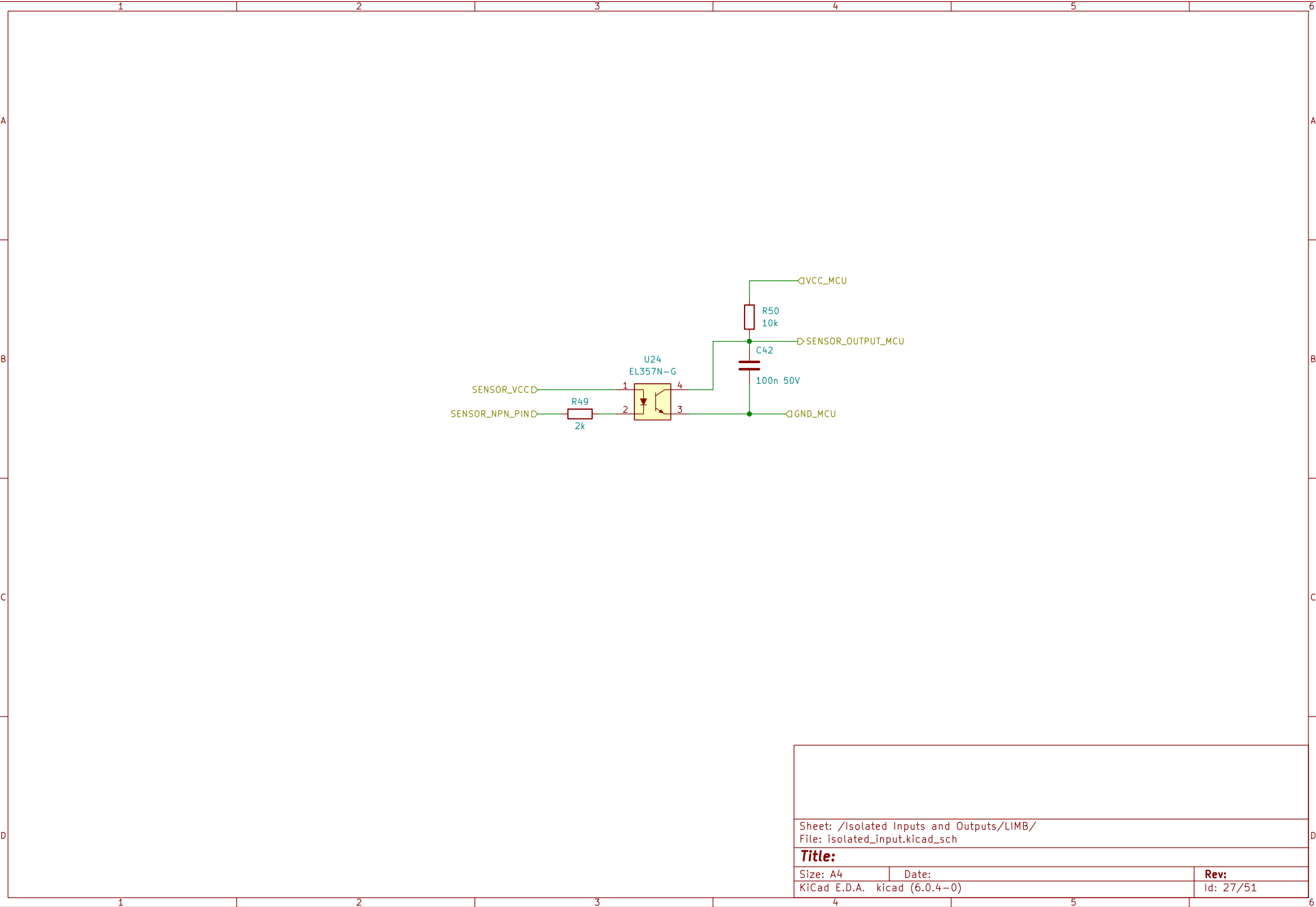
Sheet: /3V3 Linear Regulator/  
File: linear\_regulator\_3V3.kicad\_sch

**Title:**

Size: A4  
KiCad E.D.A. kicad (6.0.4-0)

Date:

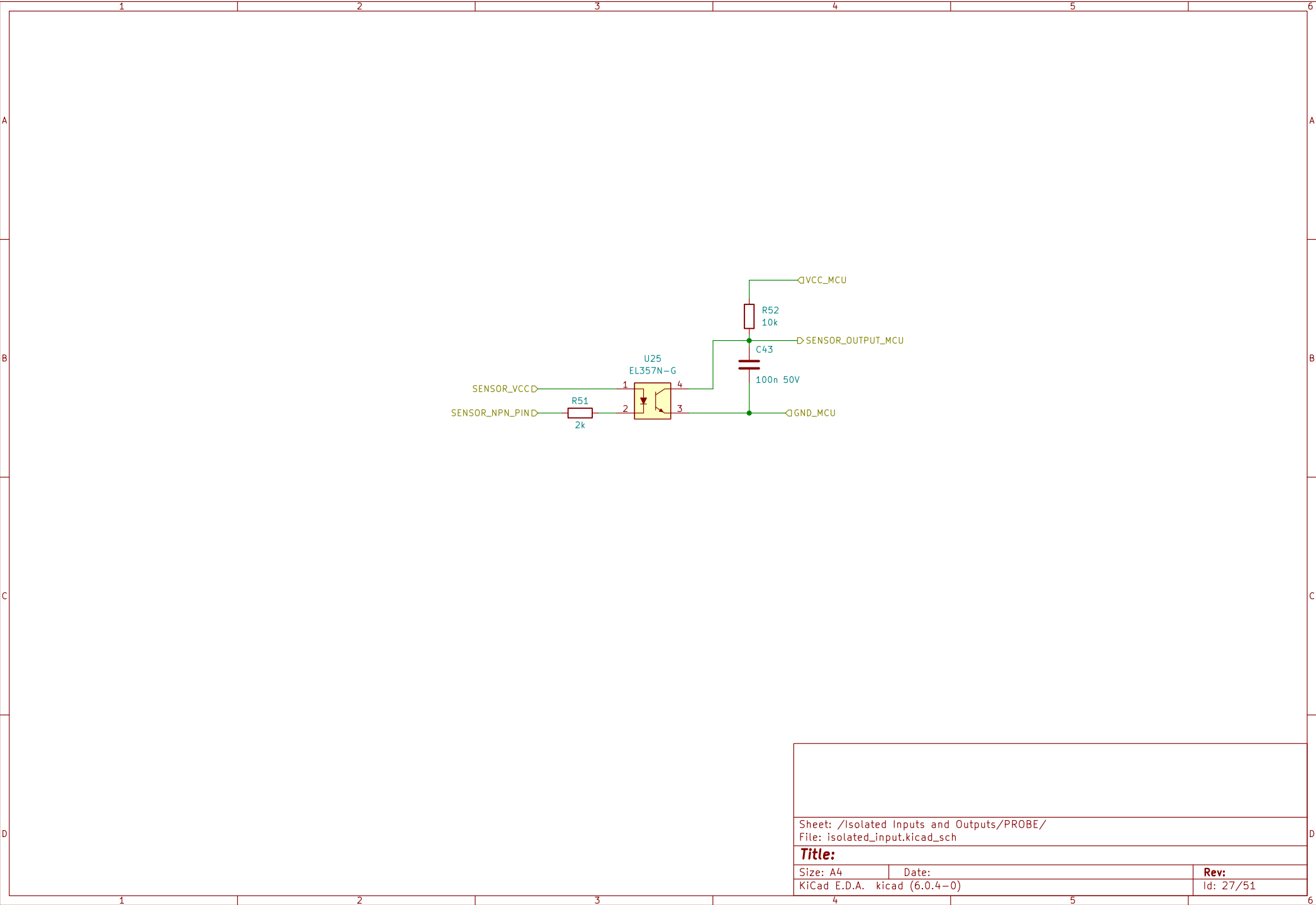
**Rev:**  
Id: 26/51



Sheet: /Isolated Inputs and Outputs/LIMB/  
File: isolated\_input.kicad\_sch

**Title:**

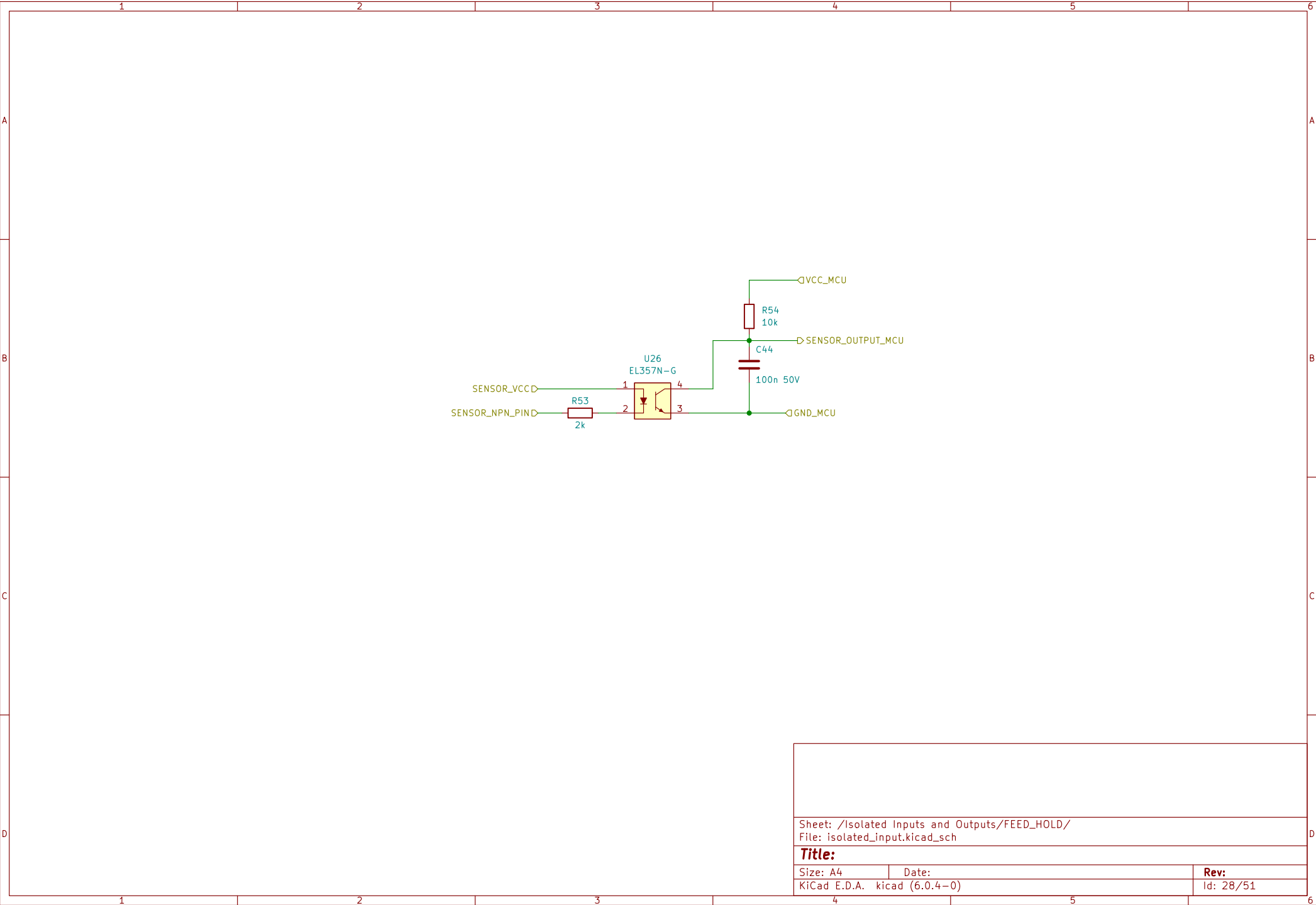
Size: A4	Date:	Rev:
KiCad E.D.A. kicad (6.0.4-0)		Id: 27/51



Sheet: /Isolated Inputs and Outputs/PROBE/  
File: isolated\_input.kicad\_sch

**Title:**

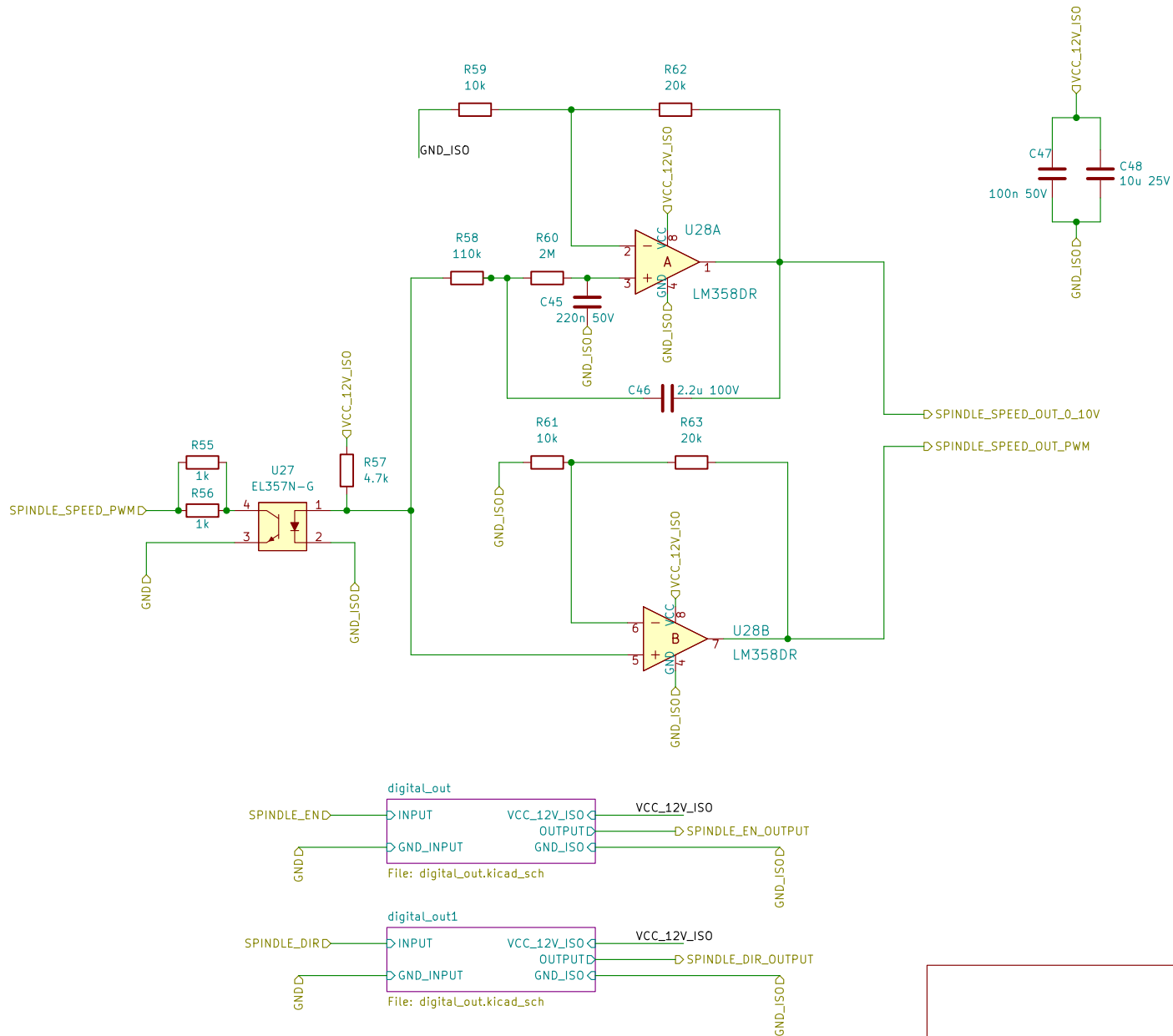
Size: A4	Date:	Rev:
KiCad E.D.A. kicad (6.0.4-0)		Id: 27/51



Sheet: /Isolated Inputs and Outputs/FEED\_HOLD/  
File: isolated\_input.kicad\_sch

**Title:**

Size: A4	Date:	Rev:
KiCad E.D.A. kicad (6.0.4-0)		Id: 28/51



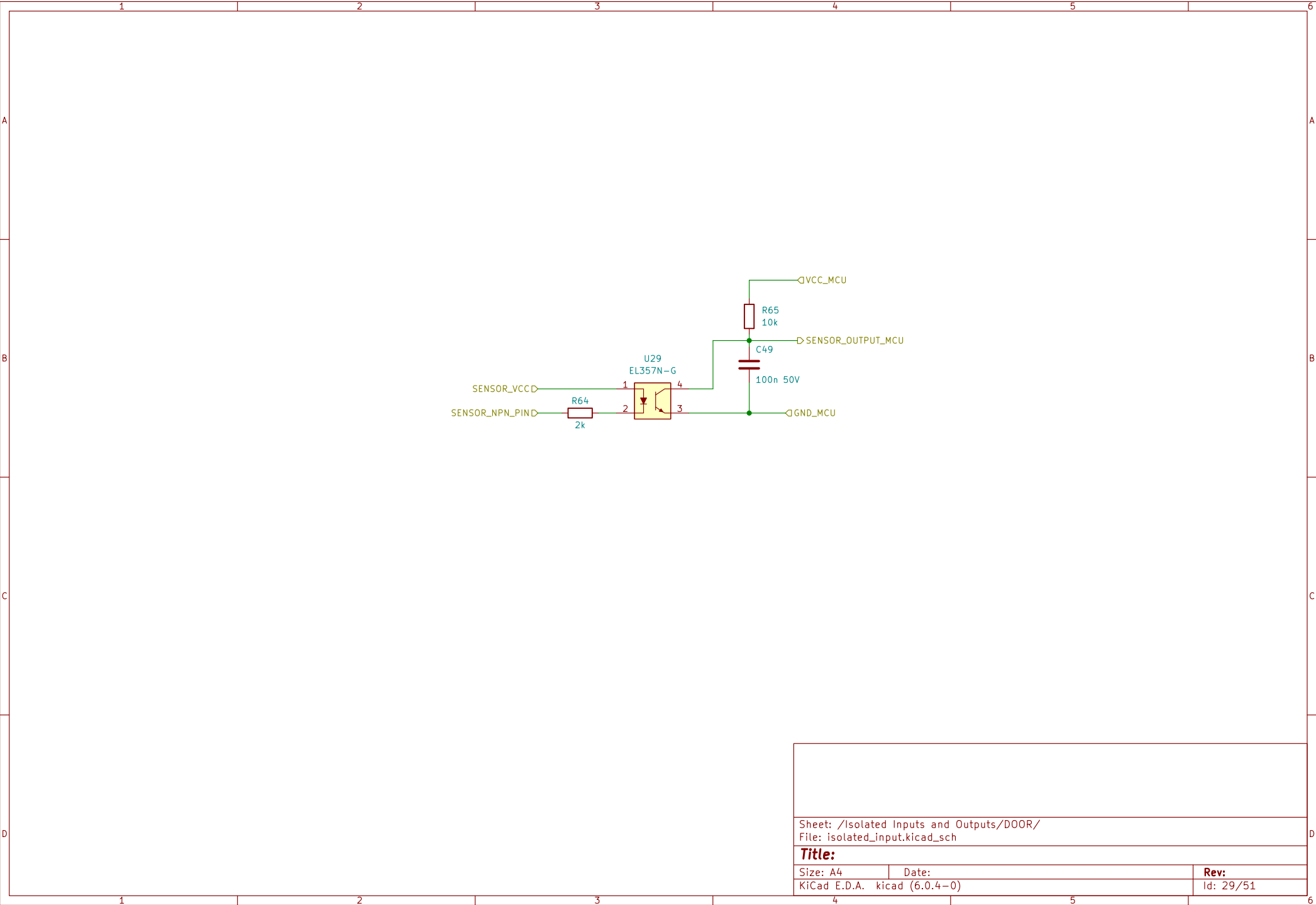
Sheet: /Untitled Sheet/  
File: spindle\_control.kicad\_sch

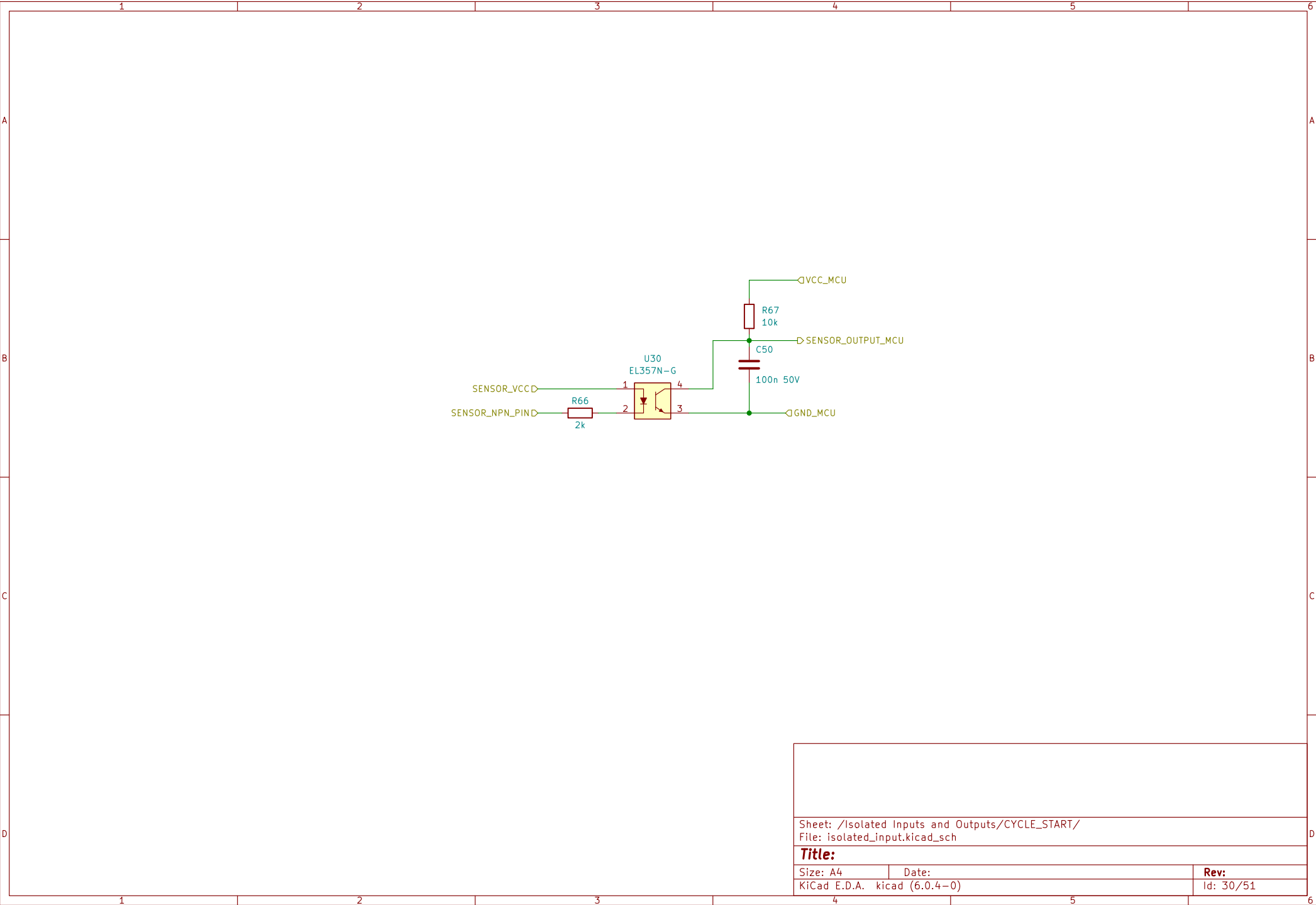
# **Title:**

Size: A4  
KiCad E.D.A. kicad (6.0.4-0)

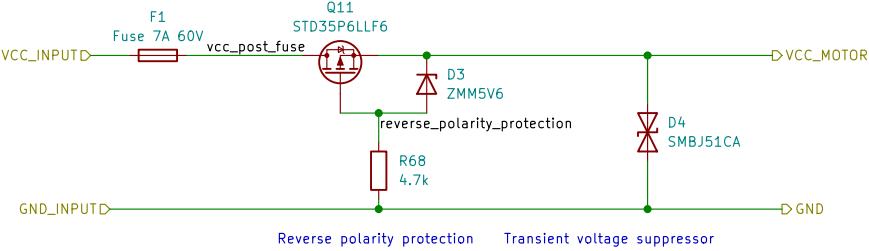
Date:

Rev:  
Id: 28/51









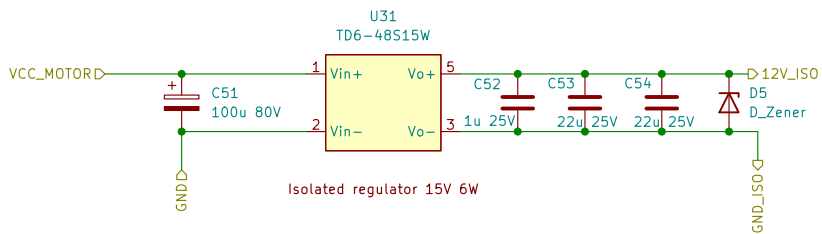
Sheet: /Input\_Protection/  
File: Input\_Protection.kicad\_sch

**Title:**

Size: A4  
KiCad E.D.A. kicad (6.0.4-0)

Date:

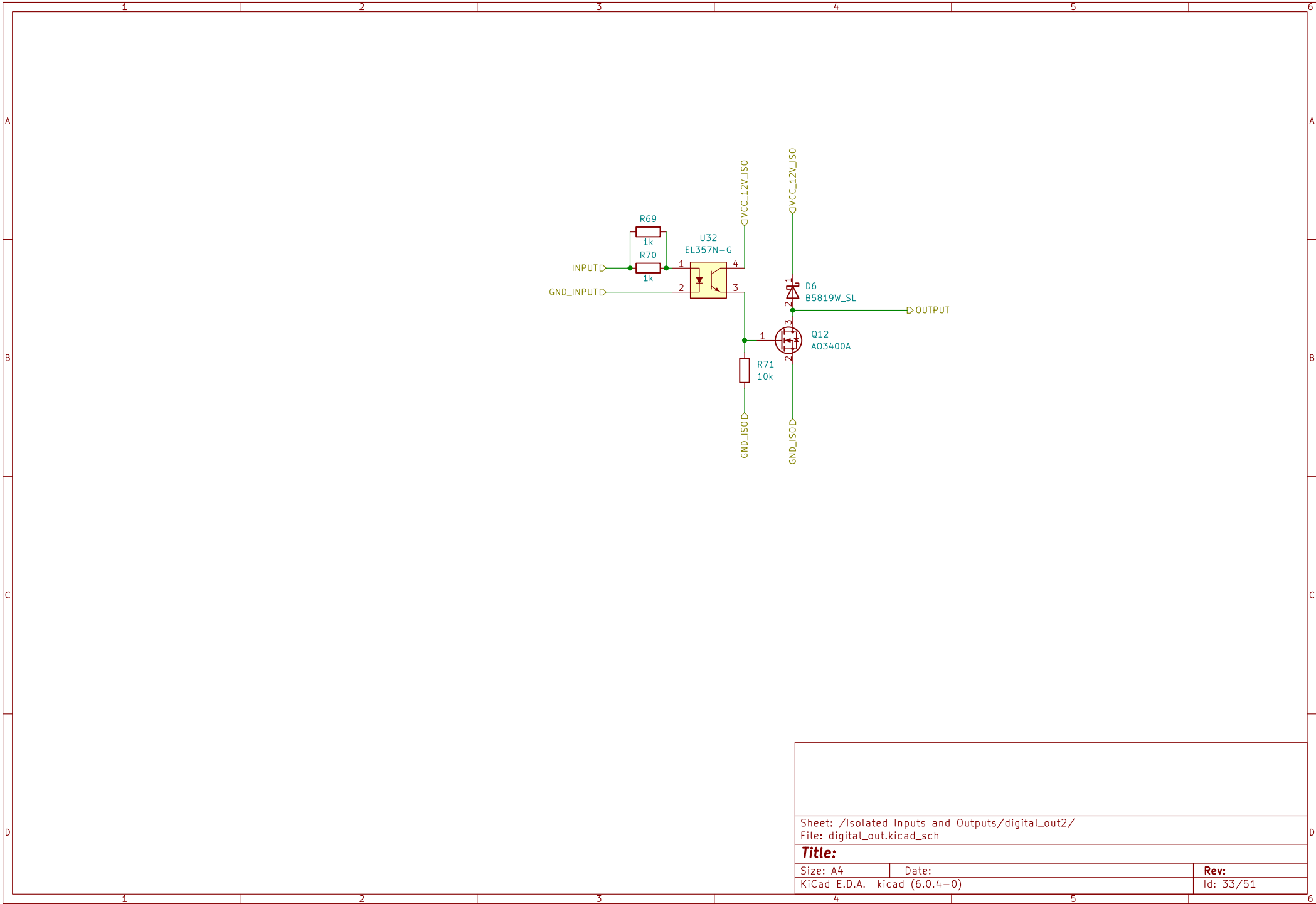
Rev:  
Id: 31/51

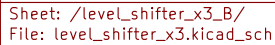


Sheet: /Isolated supply 12V/  
File: Isolated supply 12V.kicad\_sch

**Title:**

Size: A4	Date:	Rev:
KiCad E.D.A. kicad (6.0.4-0)		Id: 32/51

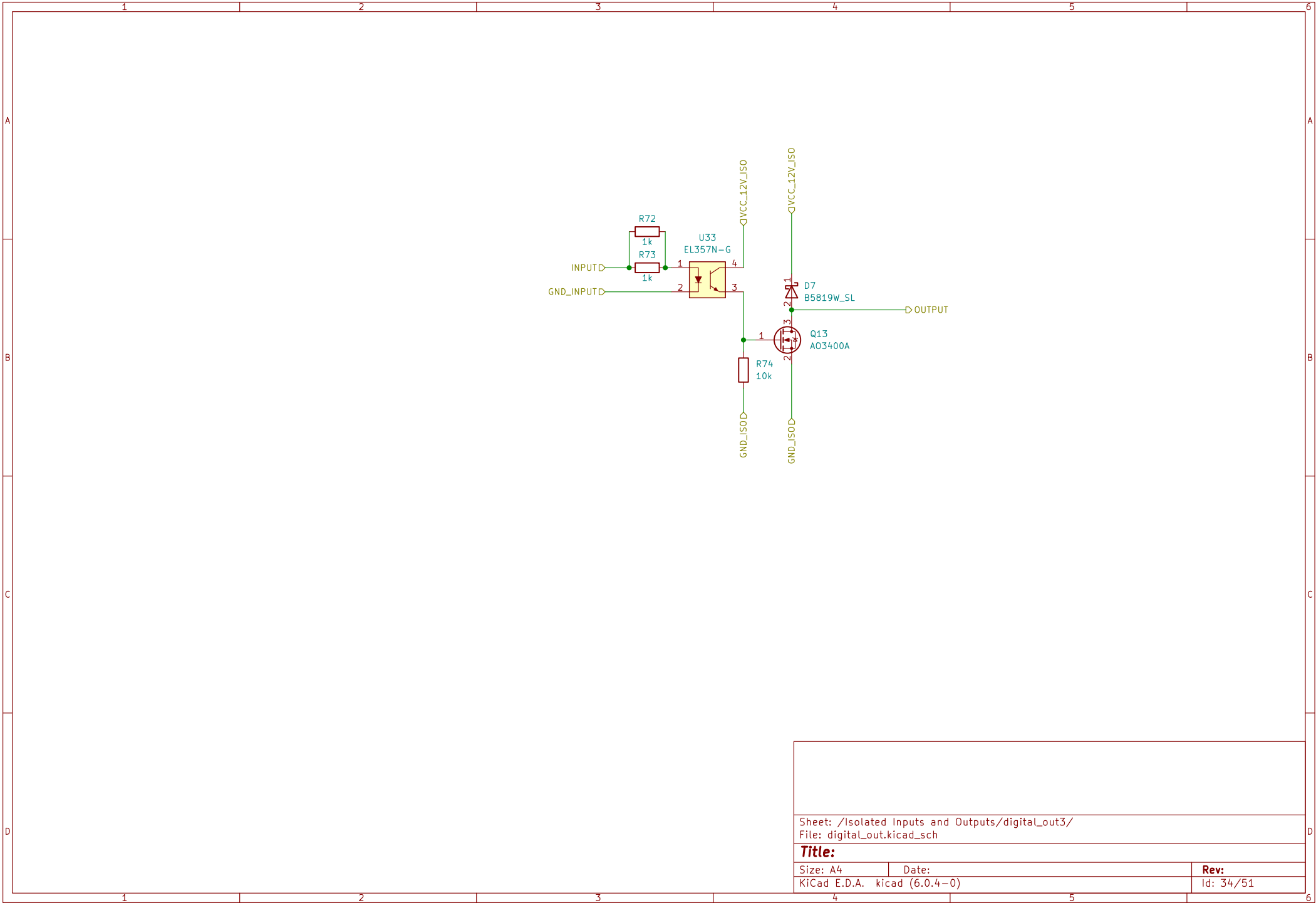


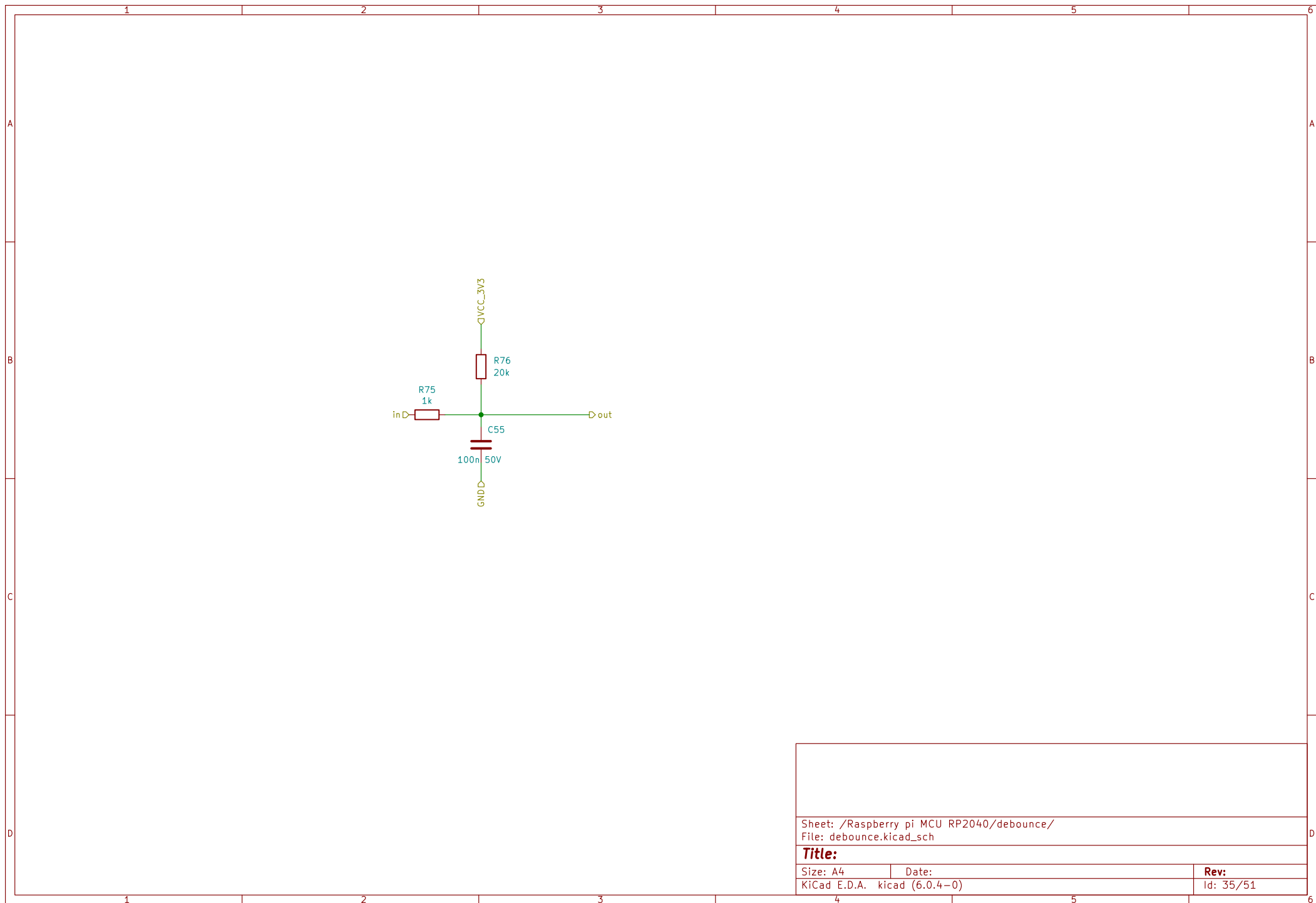


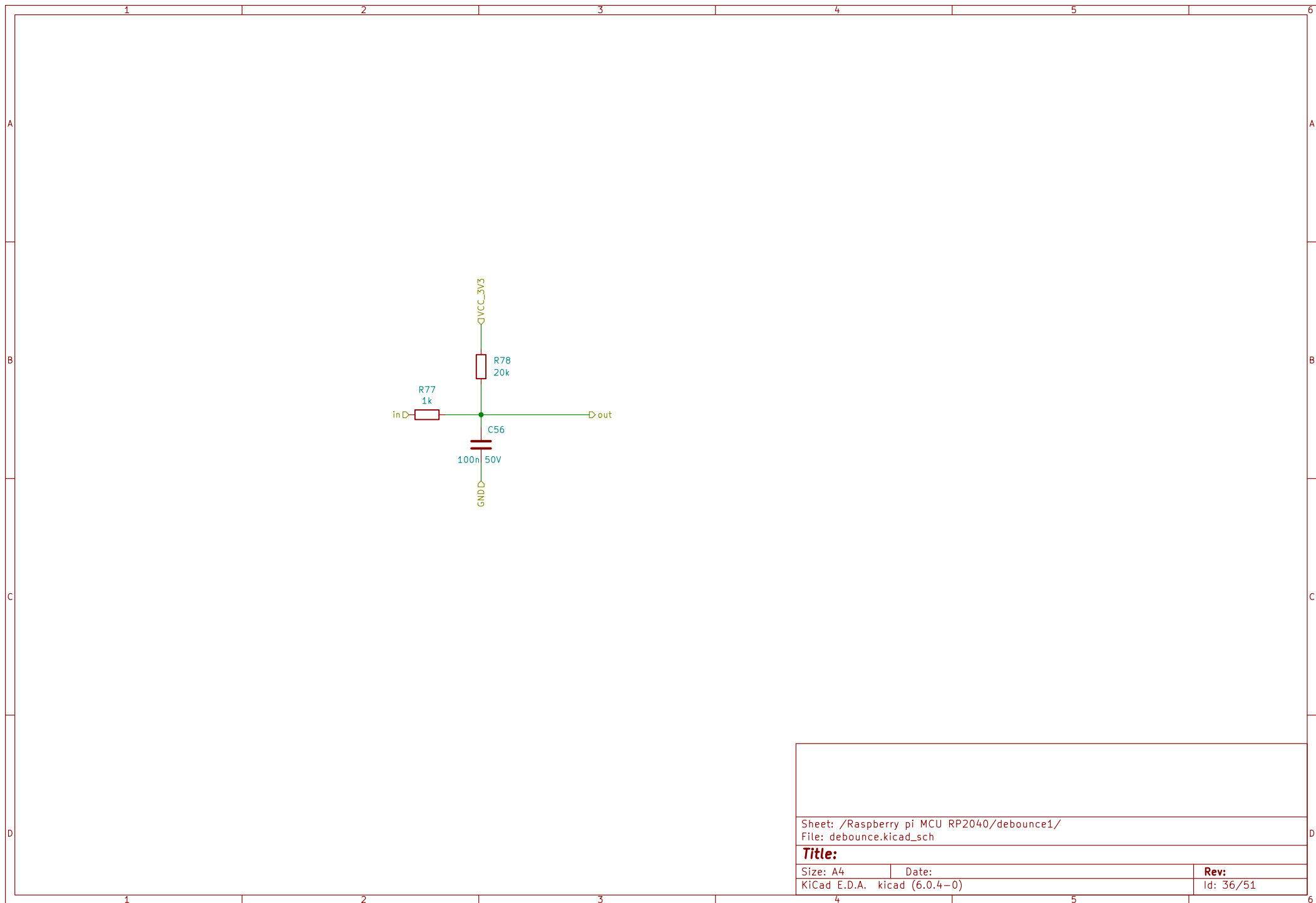
Size: A4	Date:
KiCad E.D.A. kicad (6.0.4-0)	

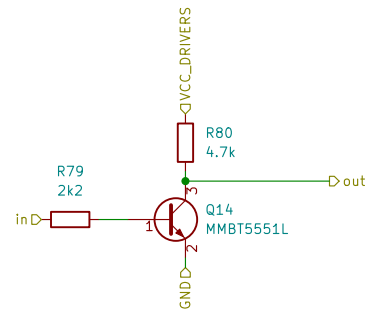
Rev:

Id: 33/51







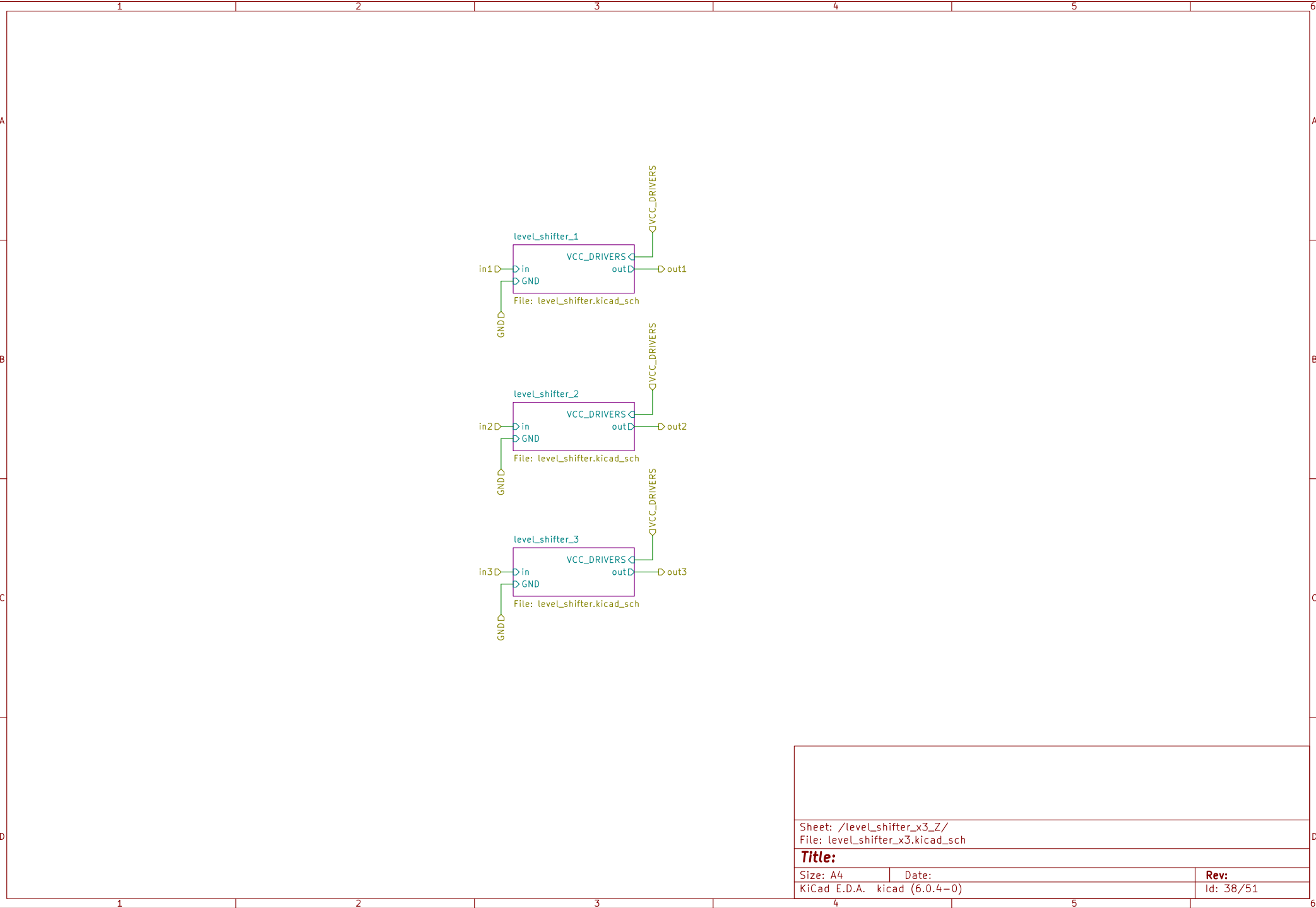


Sheet: /level\_shifter\_x3\_Z/level\_shifter\_3/  
File: level\_shifter.kicad\_sch

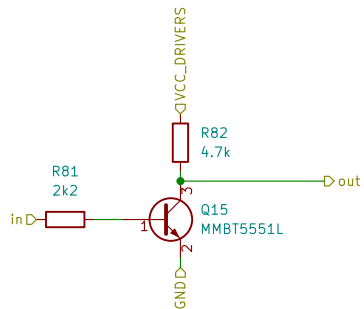
**Title:**

Size: A4	Date:	Rev:
KiCad E.D.A. kicad (6.0.4-0)		Id: 37/51





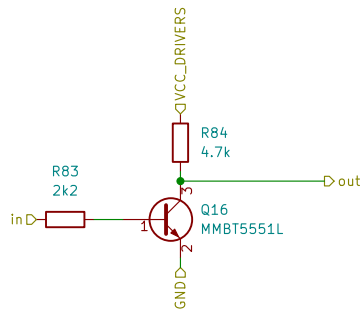
Sheet: /level_shifter_x3_Z/ File: level_shifter_x3.kicad_sch		
<b>Title:</b>		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad (6.0.4-0)		Id: 38/51



Sheet: /level\_shifter\_x3\_Y/level\_shifter\_1/  
File: level\_shifter.kicad\_sch

**Title:**

Size: A4	Date:	Rev:
KiCad E.D.A. kicad (6.0.4-0)		Id: 39/51



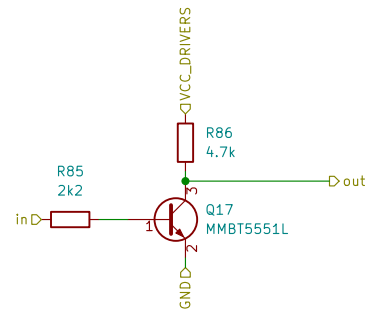
Sheet: /level\_shifter\_x3\_Y/level\_shifter\_2/  
File: level\_shifter.kicad\_sch

**Title:**

Size: A4  
KiCad E.D.A. kicad (6.0.4-0)

Date:

Rev:  
Id: 40/51



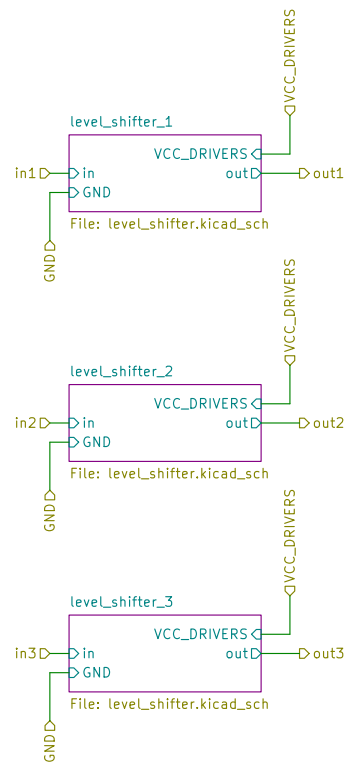
Sheet: /level\_shifter\_x3\_Y/level\_shifter\_3/  
File: level\_shifter.kicad\_sch

**Title:**

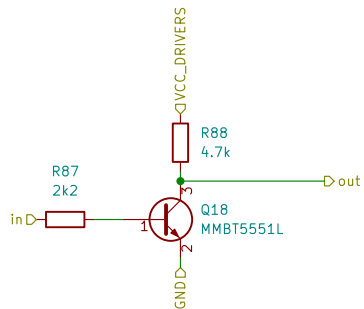
Size: A4  
KiCad E.D.A. kicad (6.0.4-0)

Date:

Rev:  
Id: 41/51



Sheet: /level_shifter_x3_Y/		D
File: level_shifter_x3.kicad_sch		
<b>Title:</b>		
Size: A4	Date:	<b>Rev:</b>
KiCad E.D.A. kicad (6.0.4-0)		Id: 42/51



Sheet: /level\_shifter\_x3\_X/level\_shifter\_1/  
File: level\_shifter.kicad\_sch

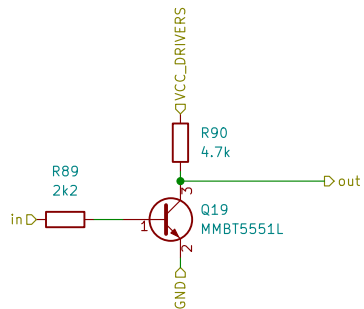
**Title:**

Size: A4  
KiCad E.D.A. kicad (6.0.4-0)

Date:

**Rev:**

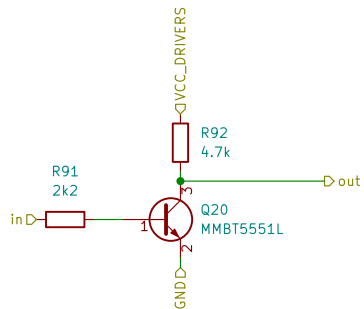
Id: 43/51



Sheet: /level\_shifter\_x3\_X/level\_shifter\_2/  
File: level\_shifter.kicad\_sch

**Title:**

Size: A4	Date:	Rev:
KiCad E.D.A. kicad (6.0.4-0)		Id: 44/51



Sheet: /level\_shifter\_x3\_X/level\_shifter\_3/  
File: level\_shifter.kicad\_sch

**Title:**

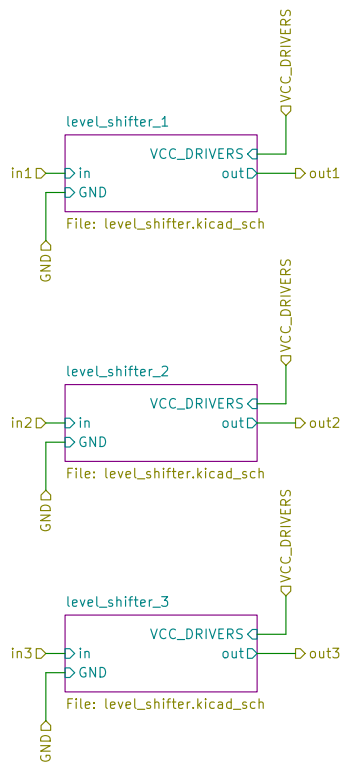
Size: A4  
KiCad E.D.A. kicad (6.0.4-0)

Date:

Rev:

Id: 45/51





Sheet: /level\_shifter\_x3\_X/  
File: level\_shifter\_x3.kicad\_sch

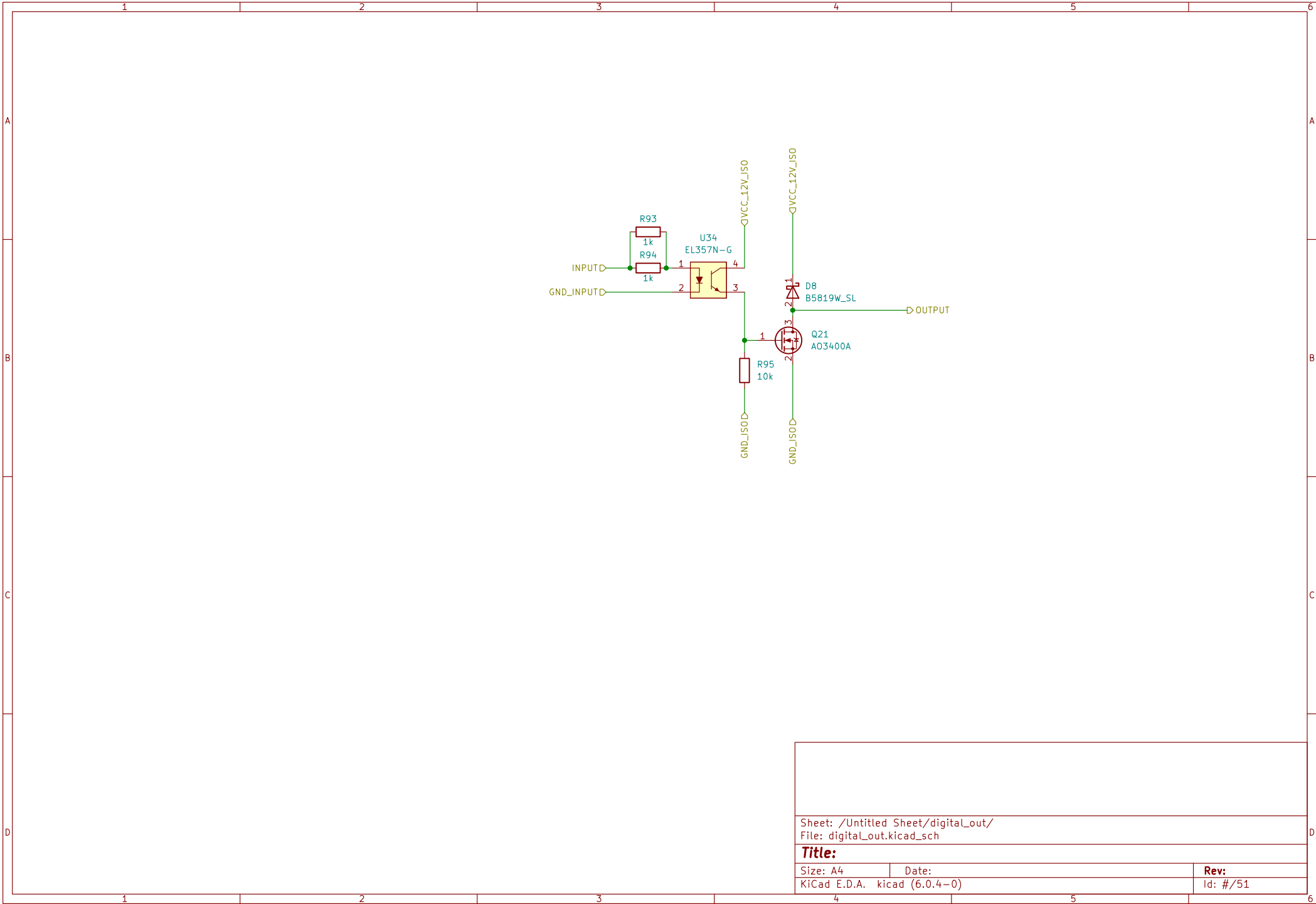
**Title:**

Size: A4  
KiCad E.D.A. kicad (6.0.4-0)

Date:

Rev:

Id: 46/51



Sheet: /Untitled Sheet/digital\_out/  
File: digital\_out.kicad\_sch

**Title:**

Size: A4

Date:

KiCad E.D.A. kicad (6.0.4-0)

**Rev:**

Id: #/51

