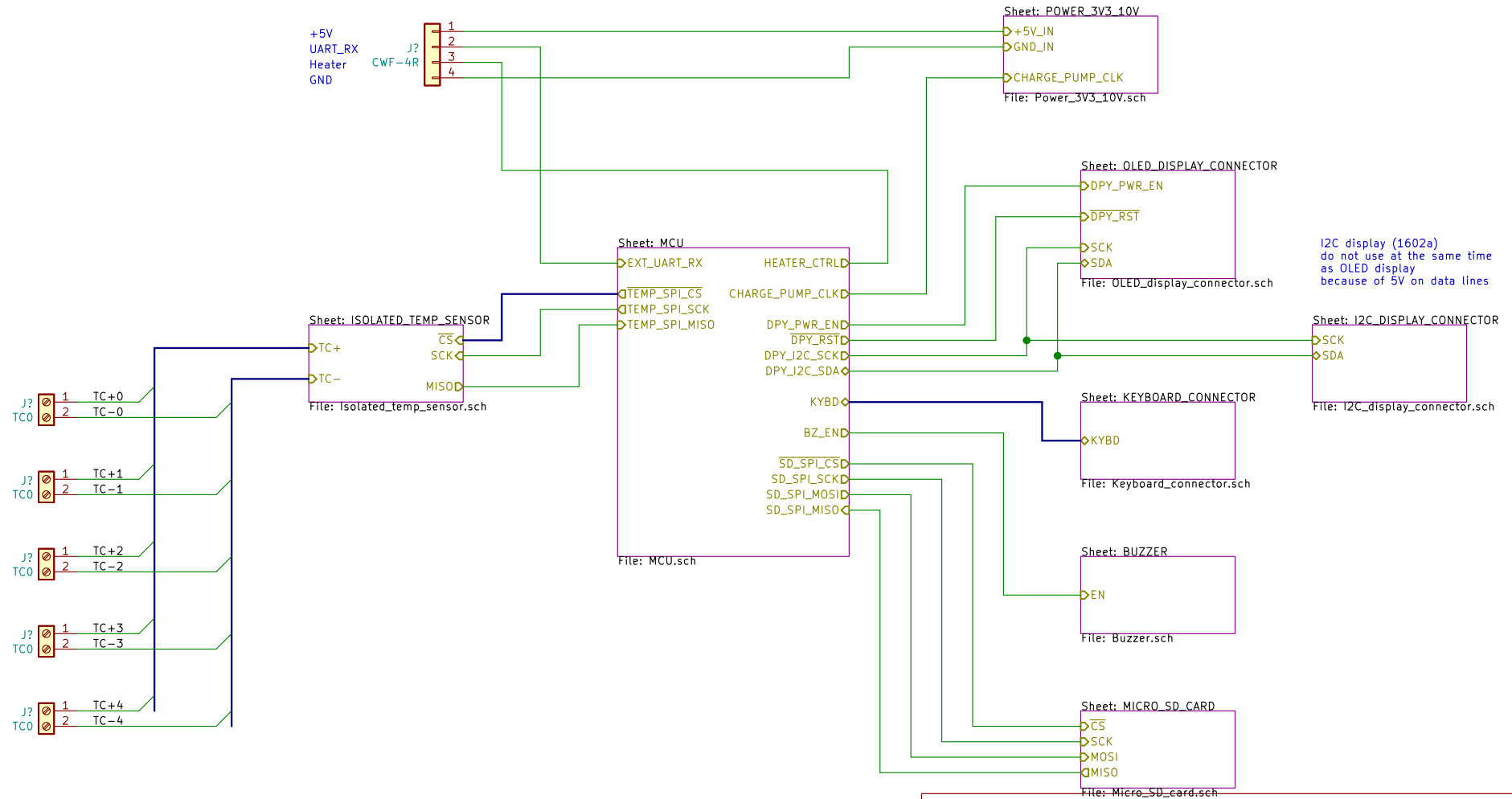


# Controller

This board  
1. Mesures furnace temperature  
2. Controls load throught the 230V board  
3. Provides user interface (display + keyboard)



Sheet: /  
File: furnace\_controller.sch

## Title:

Size: A4  
KiCad E.D.A. kicad (5.1.10)-1

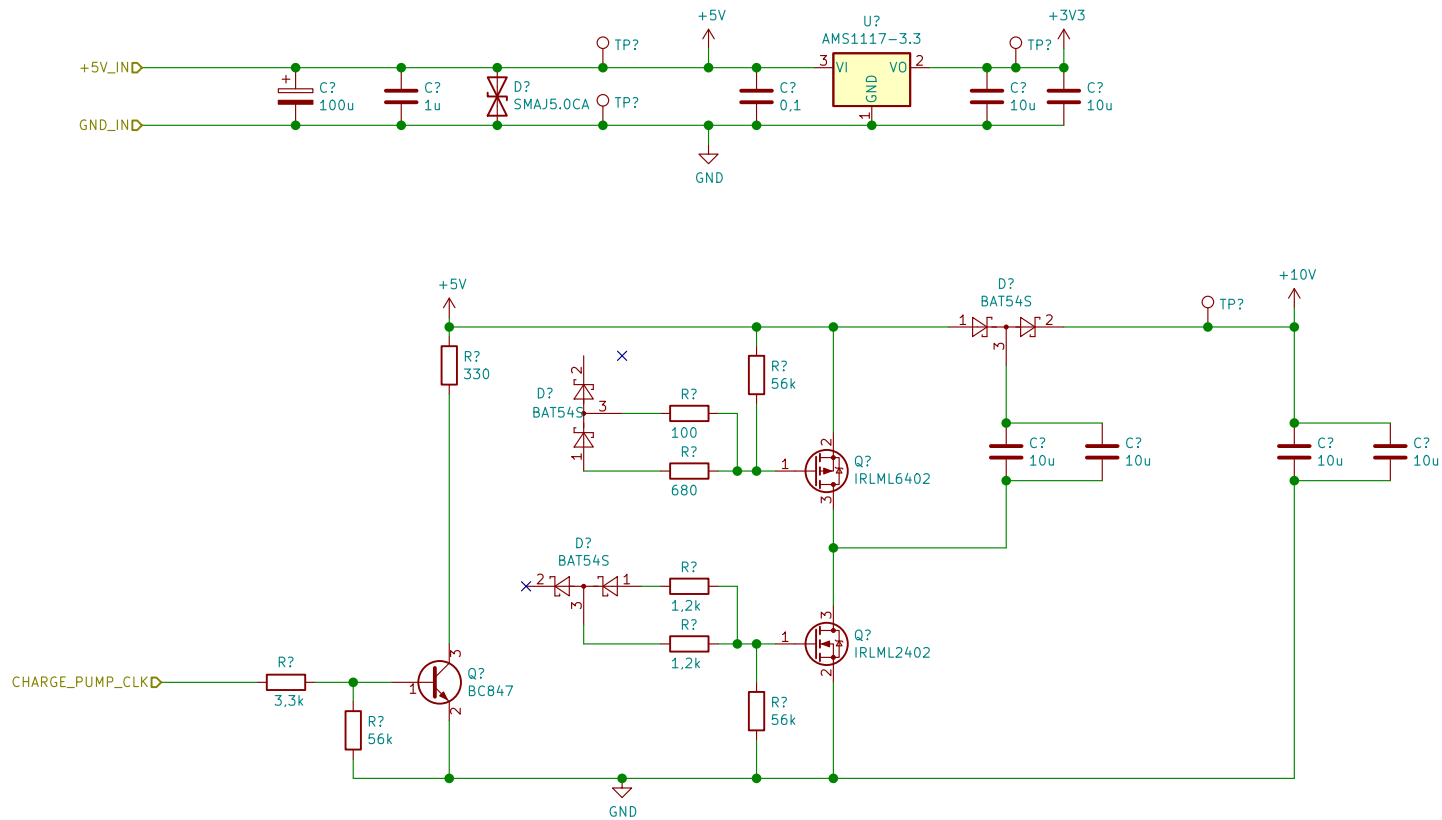
Date:

Rev:

Id: 1/18



# Power sources 3V3 and 10V



Sheet: /POWER\_3V3\_10V/  
File: Power\_3V3\_10V.sch

## Title:

Size: A4

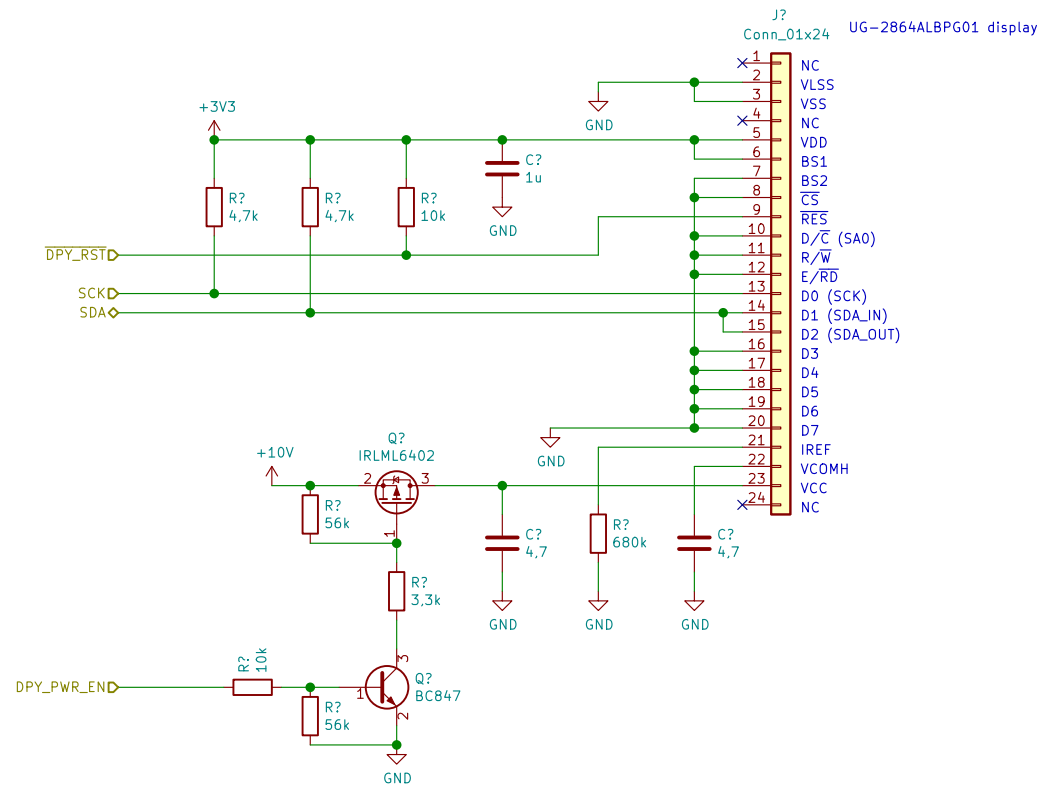
Date:

KiCad E.D.A. kicad (5.1.10)-1

Rev:

Id: 3/18

# Connector fo OLED display



Sheet: /OLED\_DISPLAY\_CONNECTOR/  
File: OLED\_display\_connector.sch

## Title:

Size: A4

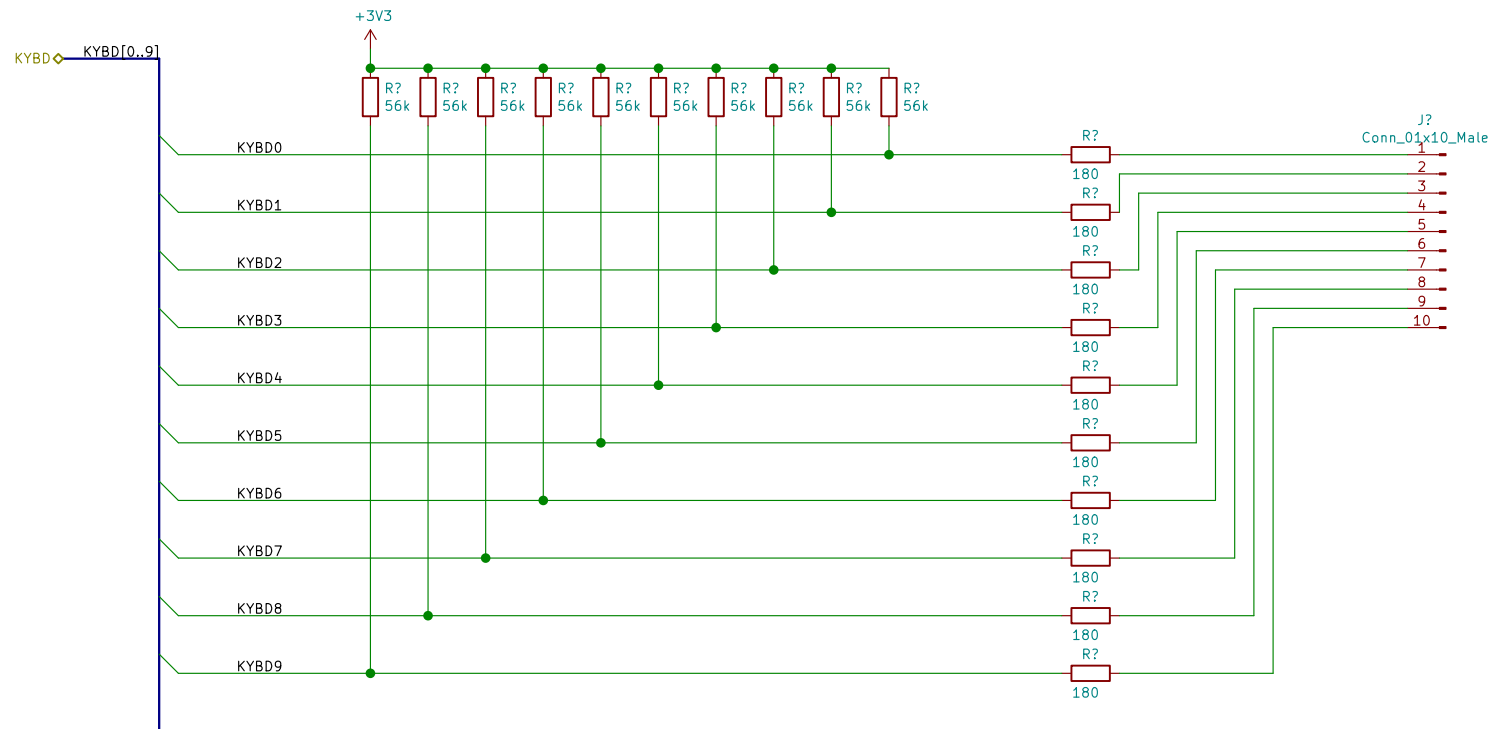
Date:

KiCad E.D.A. kicad (5.1.10)-1

Rev:

Id: 4/18

# Connector for matrix keyboard



Sheet: /KEYBOARD\_CONNECTOR/  
File: Keyboard\_connector.sch

**Title:**

Size: A4

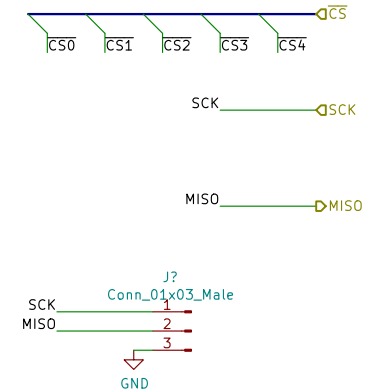
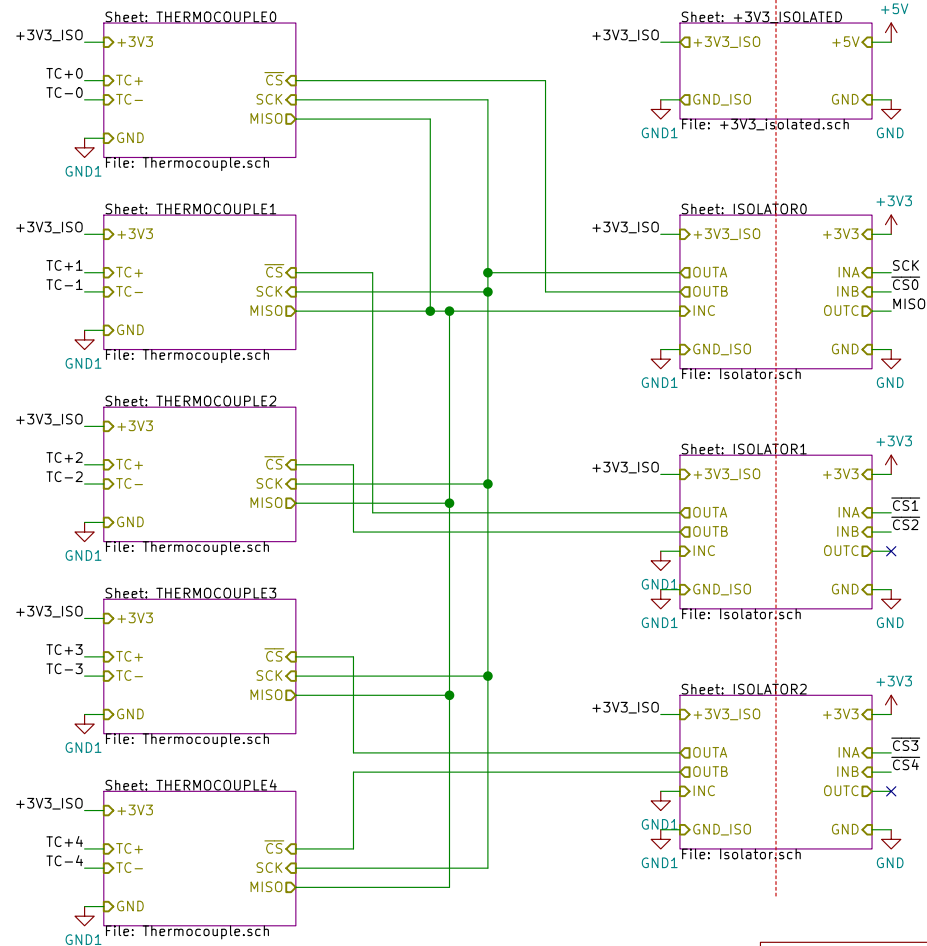
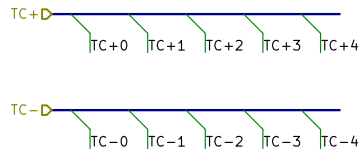
Date:

KiCad E.D.A. kicad (5.1.10)-1

**Rev:**

Id: 5/18

# Isolated 5x temperature sensor



Sheet: /ISOLATED\_TEMP\_SENSOR/  
File: Isolated\_temp\_sensor.sch

## Title:

Size: A4

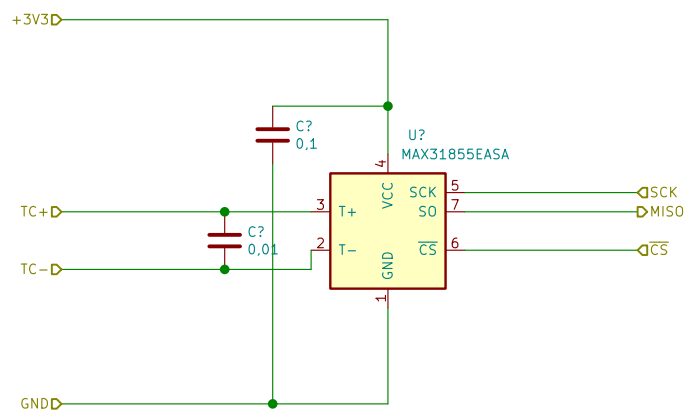
Date:

KiCad E.D.A. kicad (5.1.10)-1

Rev:

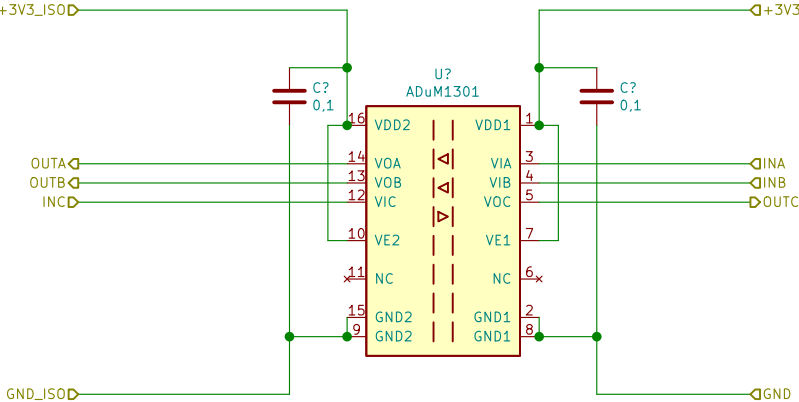
Id: 6/18

# Thermocouple sensor



Sheet: /ISOLATED_TEMP_SENSOR/THERMOCOUPLE0/ File: Thermocouple.sch		
<b>Title:</b>		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad (5.1.10)-1		Id: 7/18

# Isolator for thermocouple



Sheet: /ISOLATED\_TEMP\_SENSOR/ISOLATOR0/  
File: Isolator.sch

**Title:**

Size: A4  
KiCad E.D.A. kicad (5.1.10)-1

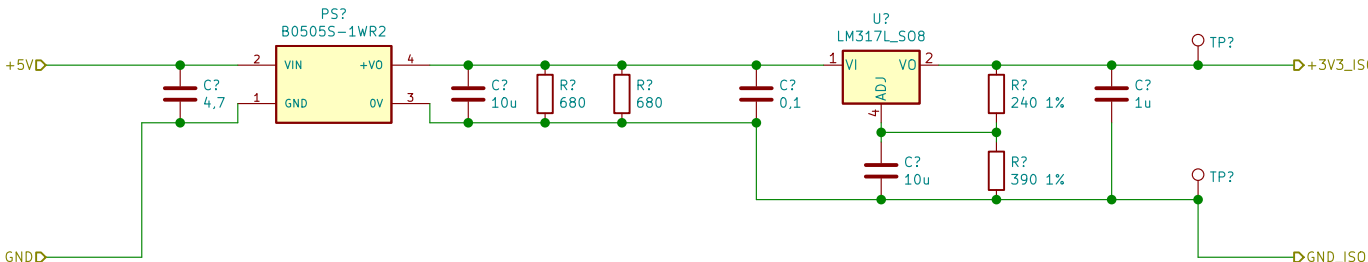
Date:

Rev:

Id: 8/18



Isolated +3V3 power source



Sheet: /ISOLATED\_TEMP\_SENSOR/+3V3\_ISOLATED/  
File: +3V3\_isolated.sch

**Title:**

Size: A4

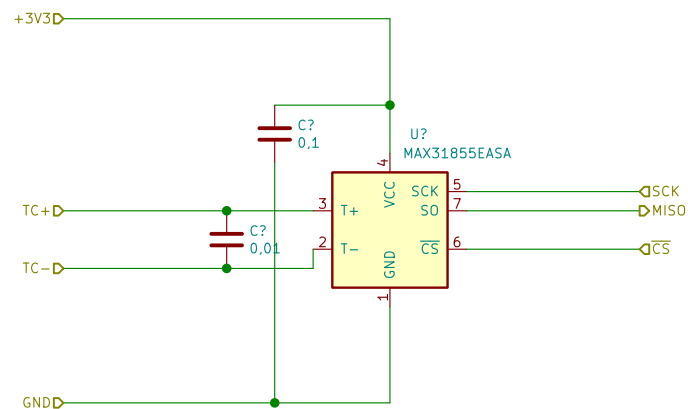
Date:

KiCad E.D.A.	kicad (5.1.10)–1
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Rev:

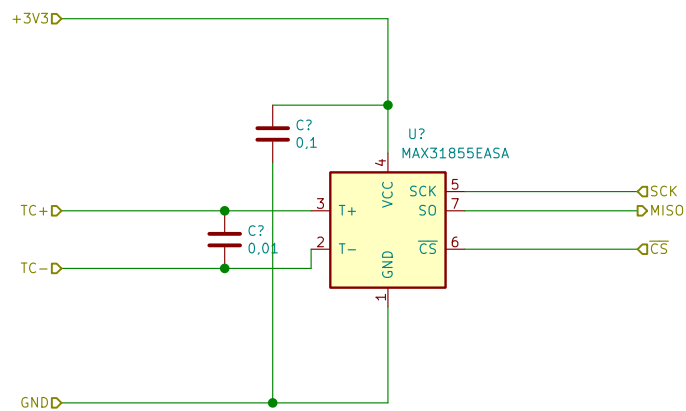
Id: 9/18

# Thermocouple sensor



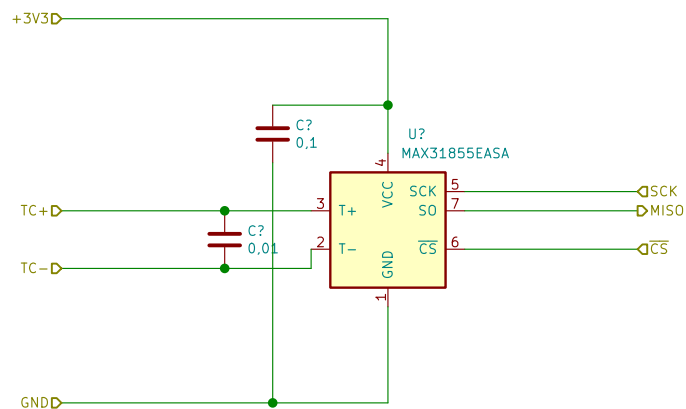
Sheet: /ISOLATED_TEMP_SENSOR/THERMOCOUPLE1/ File: Thermocouple.sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad (5.1.10)-1		Id: 10/18

# Thermocouple sensor



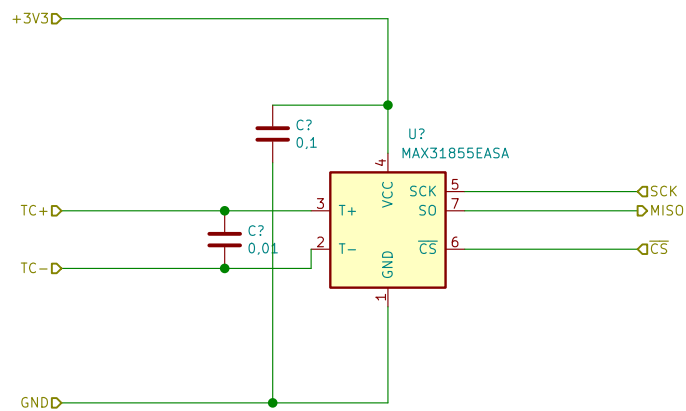
Sheet: /ISOLATED_TEMP_SENSOR/THERMOCOUPLE2/ File: Thermocouple.sch		
<b>Title:</b>		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad (5.1.10)-1		Id: 11/18

# Thermocouple sensor



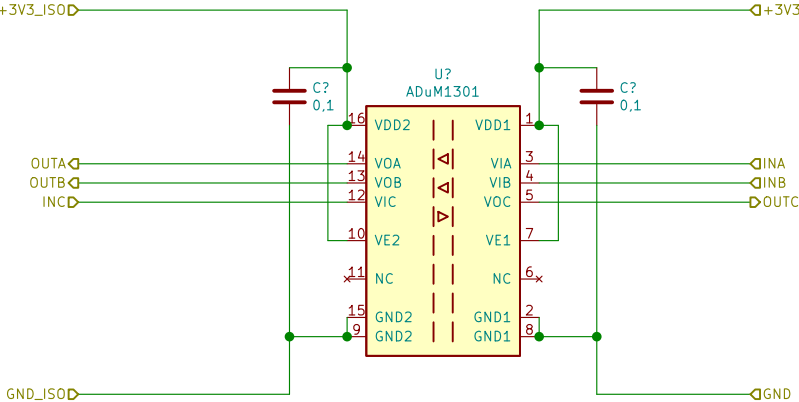
Sheet: /ISOLATED_TEMP_SENSOR/THERMOCOUPLE3/ File: Thermocouple.sch		
<b>Title:</b>		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad (5.1.10)-1		Id: 12/18

# Thermocouple sensor



Sheet: /ISOLATED_TEMP_SENSOR/THERMOCOUPLE4/ File: Thermocouple.sch		
<b>Title:</b>		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad (5.1.10)-1		Id: 13/18

# Isolator for thermocouple



Sheet: /ISOLATED\_TEMP\_SENSOR/ISOLATOR1/  
File: Isolator.sch

**Title:**

Size: A4

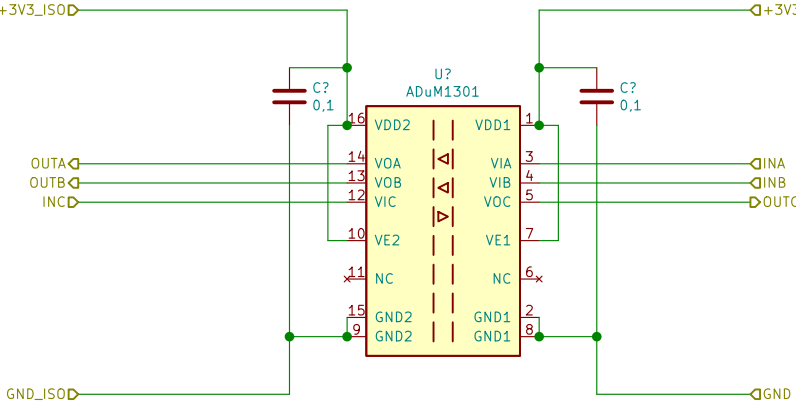
Date:

KiCad E.D.A. kicad (5.1.10)-1

**Rev:**

Id: 14/18

# Isolator for thermocouple



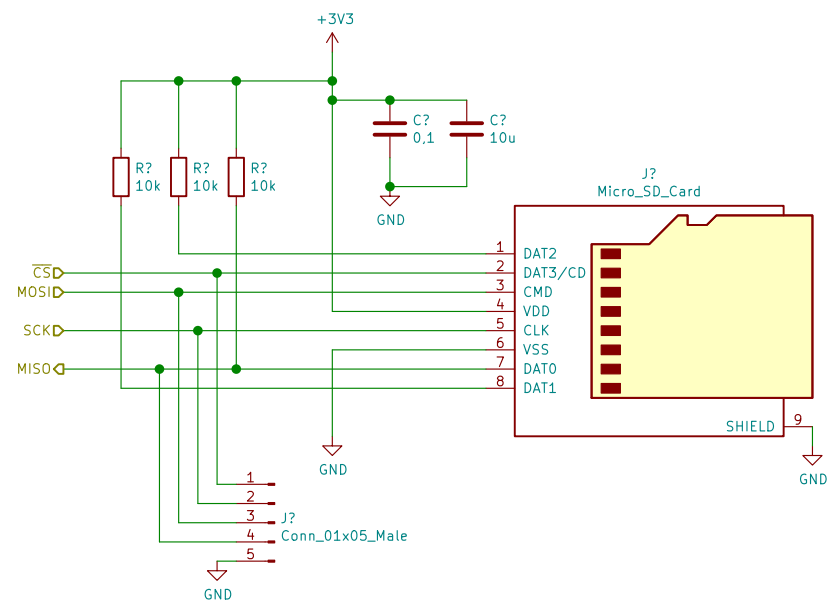
Sheet: /ISOLATED\_TEMP\_SENSOR/ISOLATOR2/  
File: Isolator.sch

**Title:**

Size: A4 Date:  
KiCad E.D.A. kicad (5.1.10)-1

Rev:  
Id: 15/18

## Micro-SD card connector



Sheet: /MICRO\_SD\_CARD/  
File: Micro\_SD\_card.sch

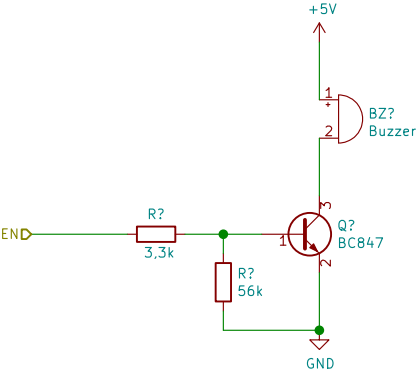
**Title:**

Size: A4	Date:
KiCad E.D.A. kicad (5.1.10)-1	

Rev:  
Id: 16/18

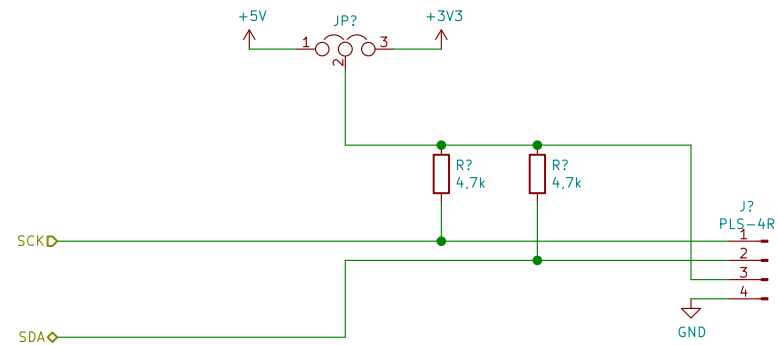


Buzzer



Sheet: /BUZZER/ File: Buzzer.sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad (5.1.10)-1		Id: 17/18

# I2C display connector for OLED or LCD display



Sheet: /I2C\_DISPLAY\_CONNECTOR/  
File: I2C\_display\_connector.sch

**Title:**

Size: A4

Date:

KiCad E.D.A. kicad (5.1.10)-1

**Rev:**

Id: 18/18