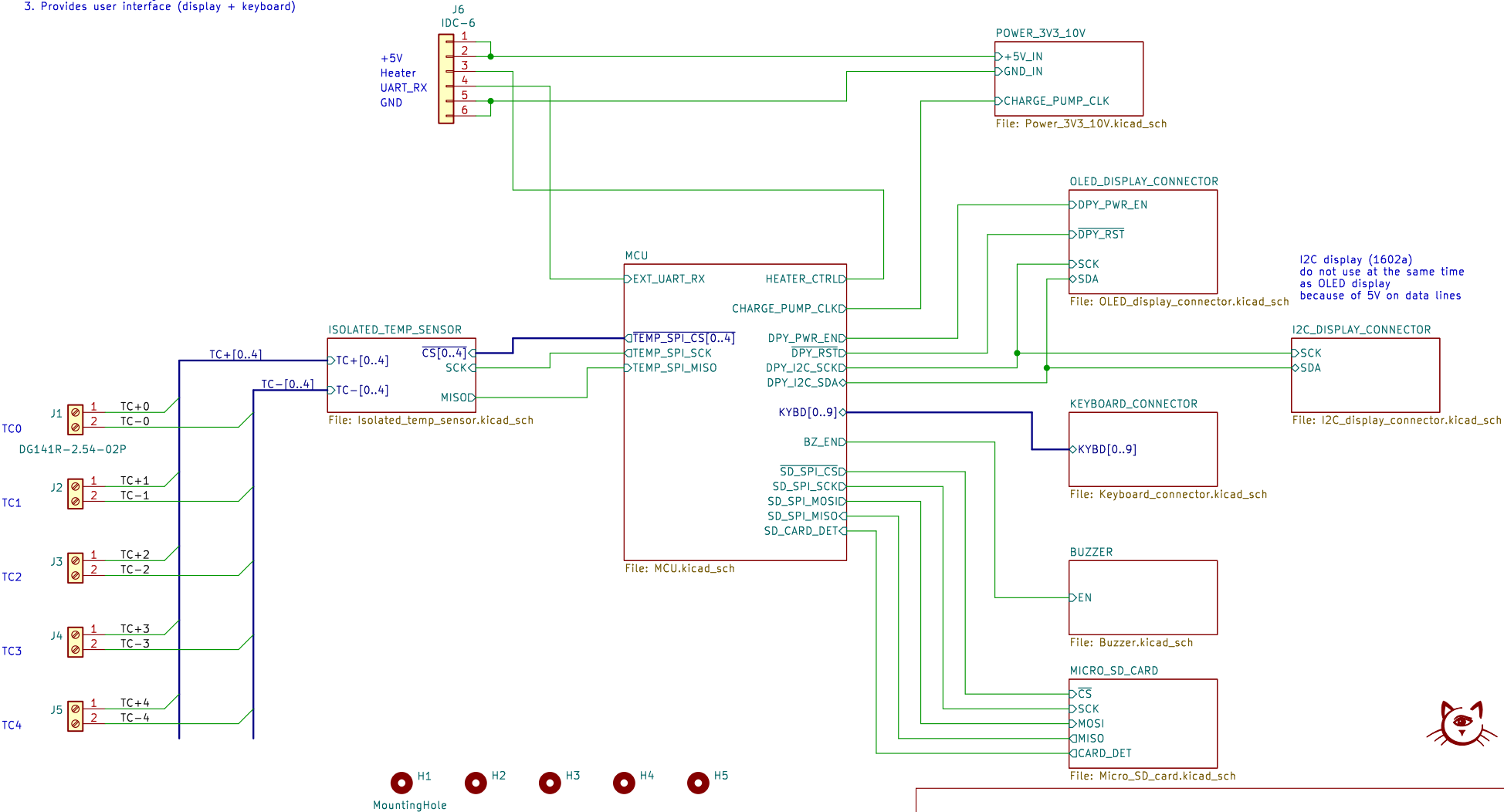
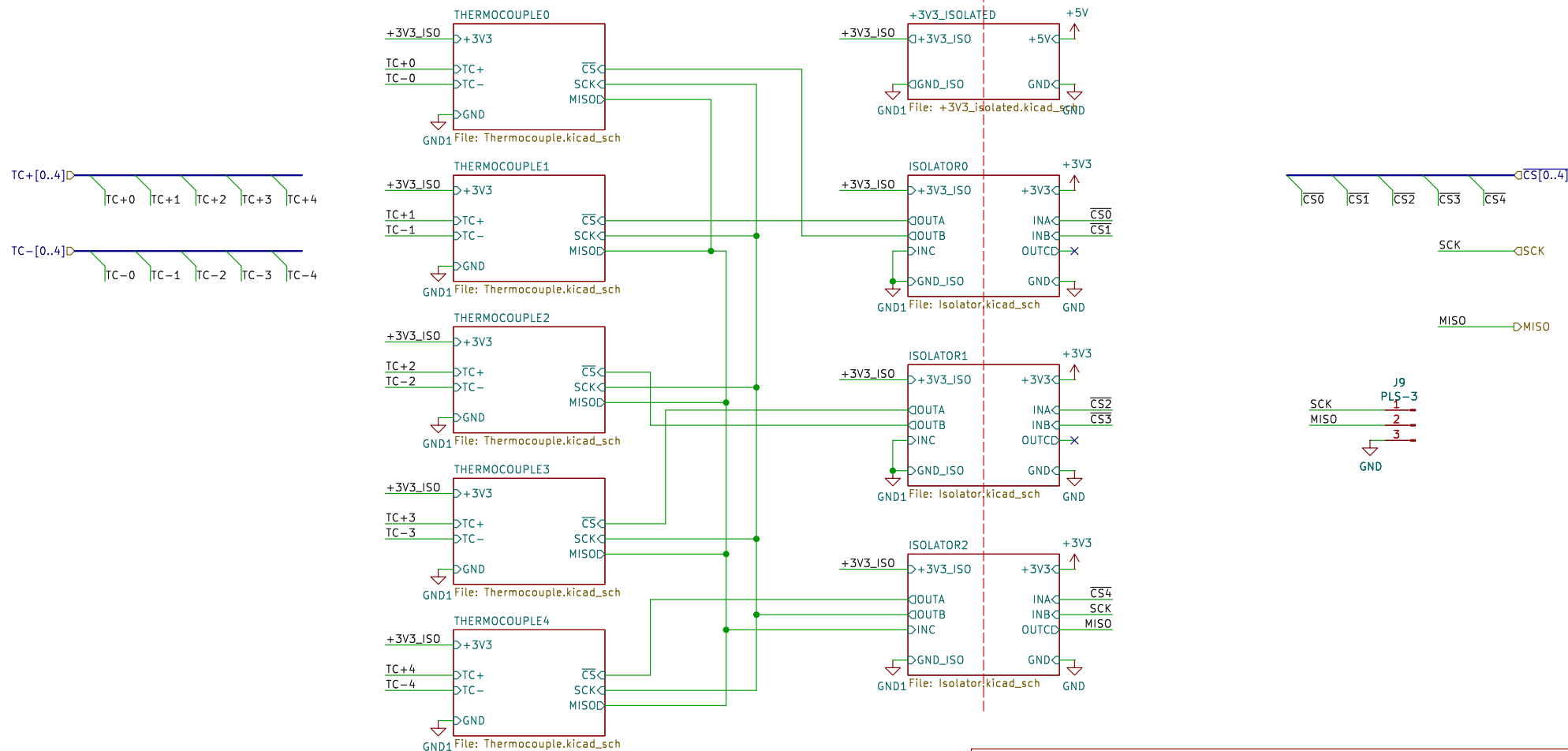


Controller

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



Isolated 5x temperature sensor



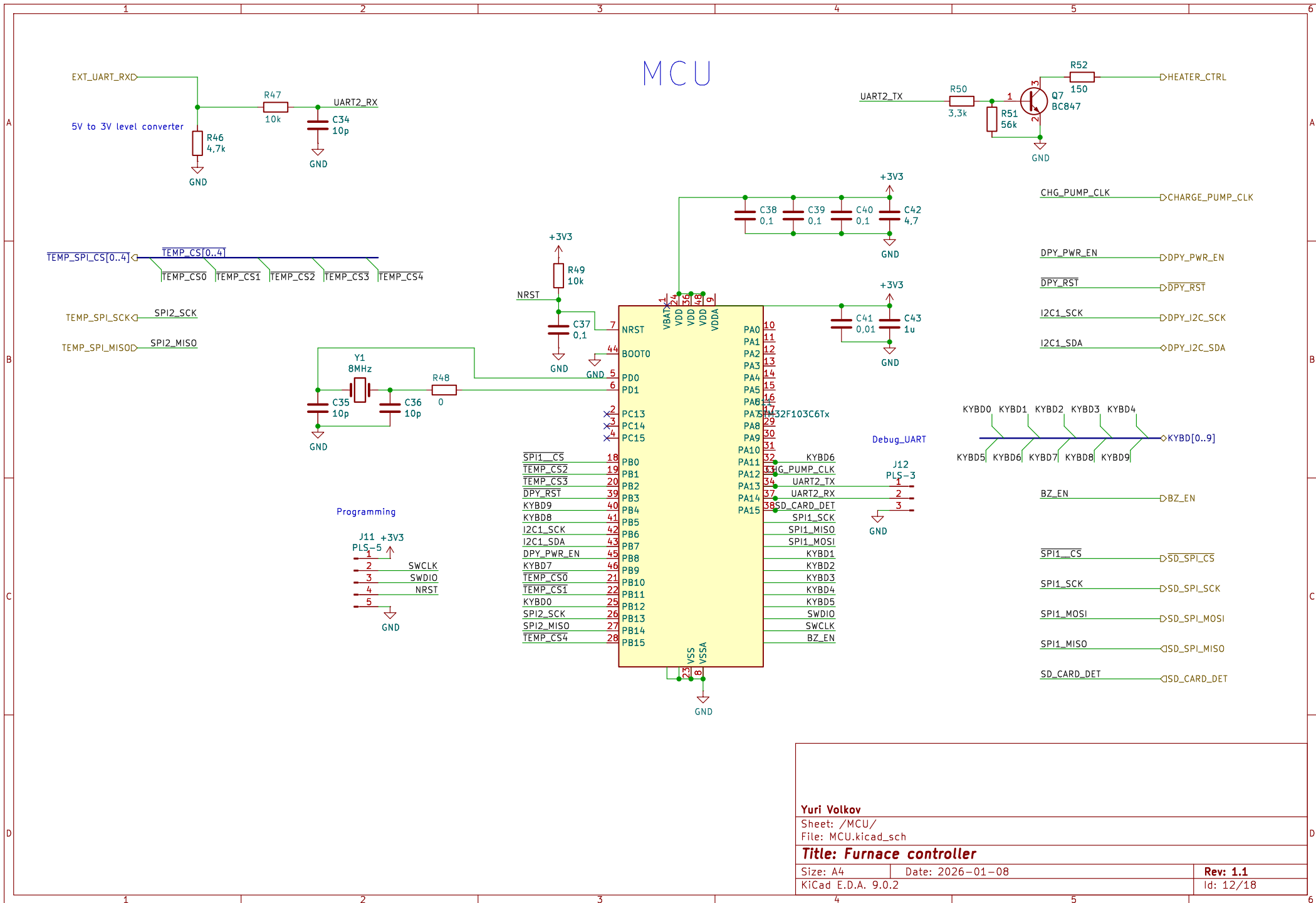
Yuri Volkov

Sheet: /ISOLATED_TEMP_SENSOR/
File: Isolated_temp_sensor.kicad_sch

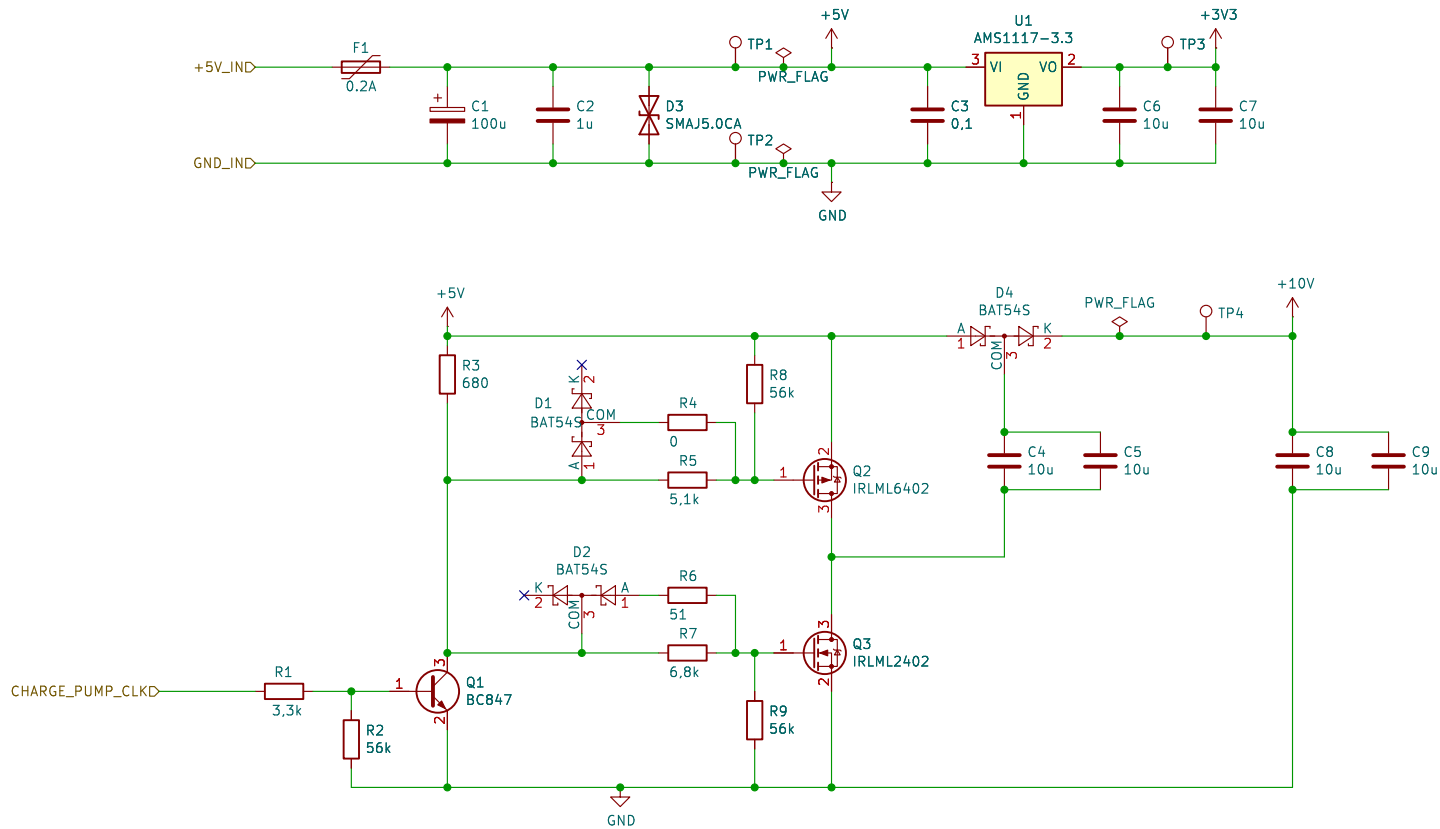
Title: Furnace controller

Size: A4 Date: 2026-01-08
KiCad E.D.A. 9.0.2

Rev: 1.1
Id: 2/18



Power sources 3V3 and 10V



Yuri Volkov

Sheet: /POWER_3V3_10V/
File: Power_3V3_10V.kicad_sch

Title: Furnace controller

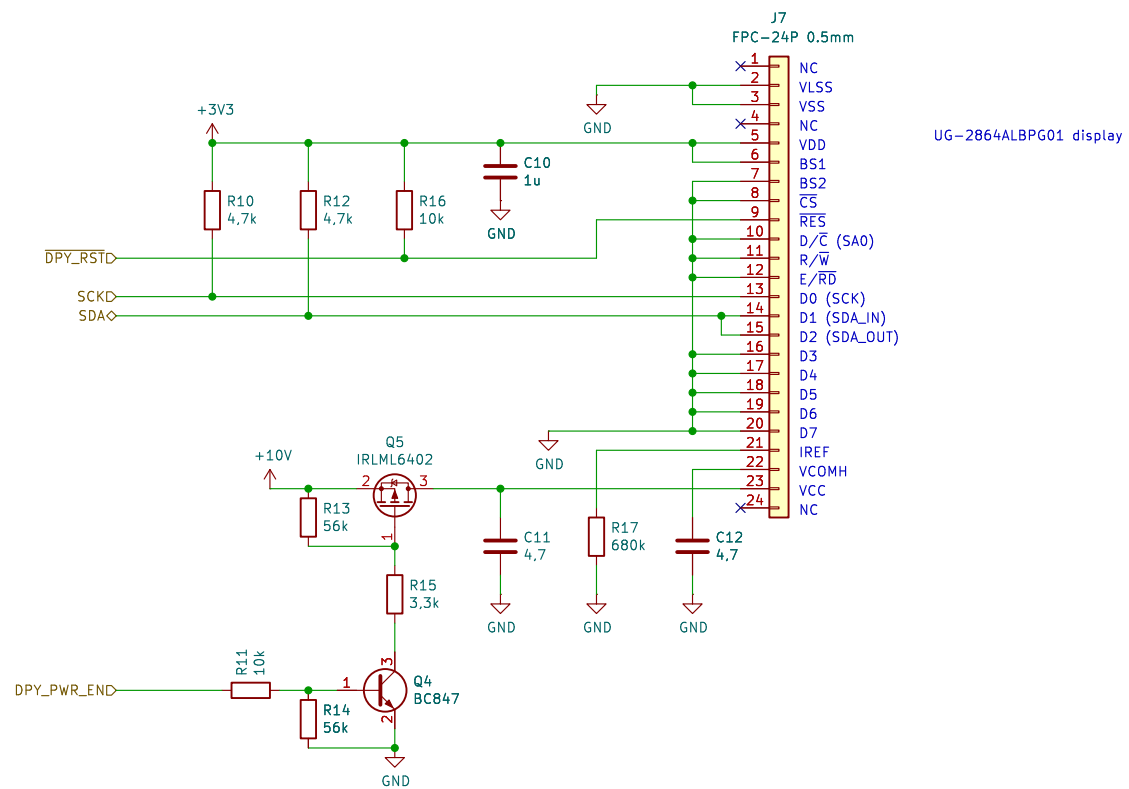
Size: A4 Date: 2026-01-08

KiCad E.D.A. 9.0.2

Rev: 1.1

Id: 13/18

Connector fo OLED display



Yuri Volkov

Sheet: /OLED_DISPLAY_CONNECTOR/
File: OLED_display_connector.kicad_sch

Title: *Furnace controller*

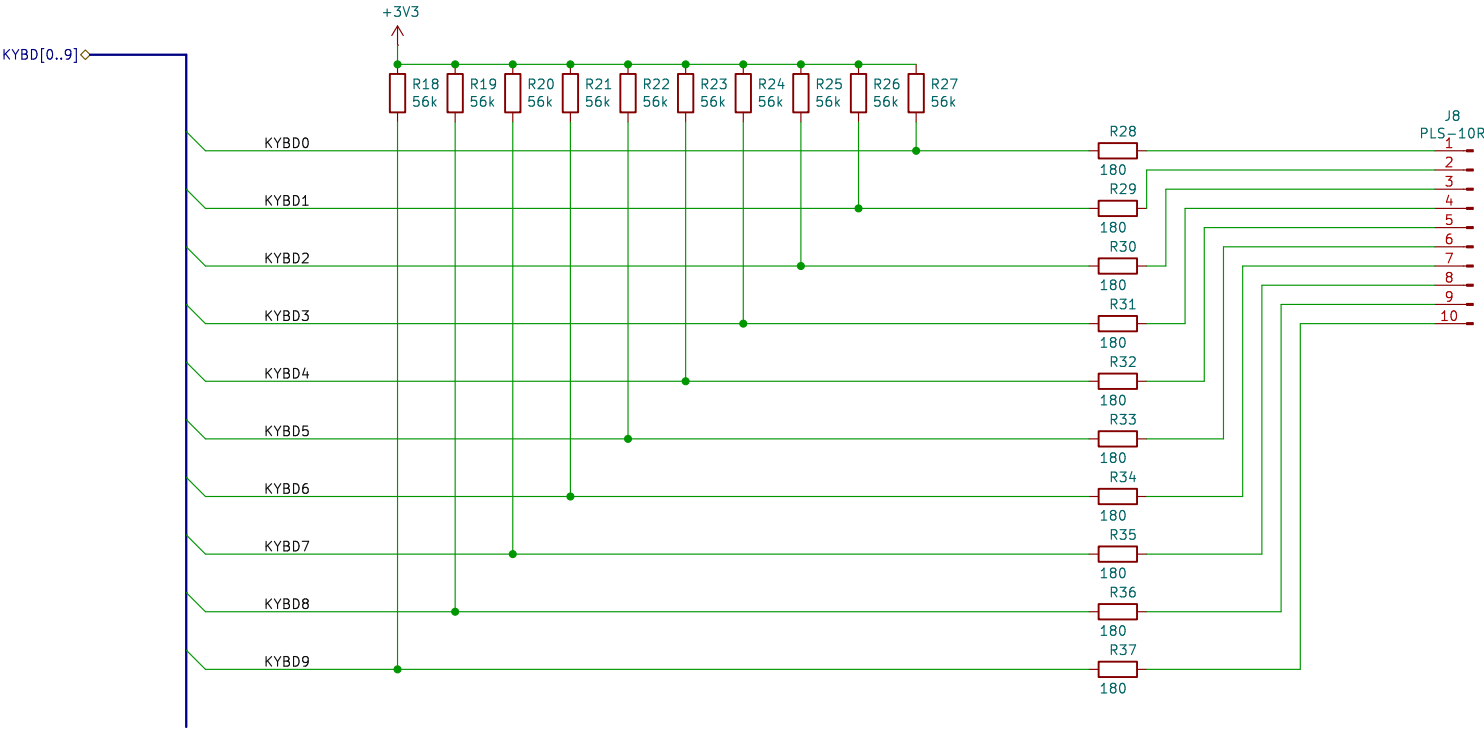
Size: A4	Date: 2026-01-08
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KiCad E.D.A. 9.0.2

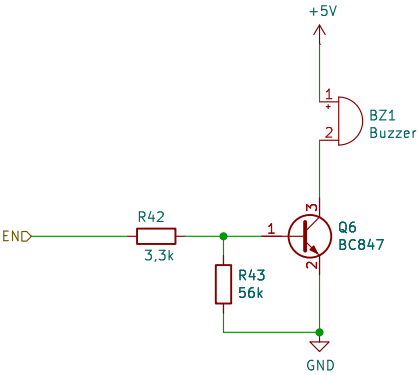
Rev: 1.1

Id: 14/18

Connector for matrix keyboard



Buzzer



Yuri Volkov

Sheet: /BUZZER/

File: Buzzer.kicad_sch

Title: Furnace controller

Size: A4

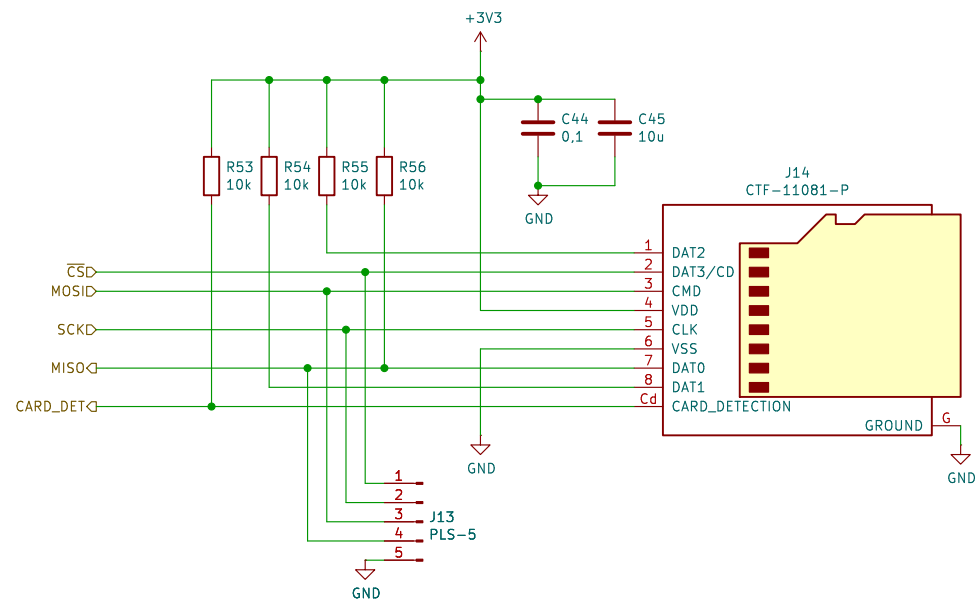
Date: 2026-01-08

Rev: 1.1

KiCad E.D.A. 9.0.2

Id: 16/18

Micro-SD card connector



Yuri Volkov

Sheet: /MICRO_SD_CARD/
File: Micro_SD_card.kicad_sch

Title: Furnace controller

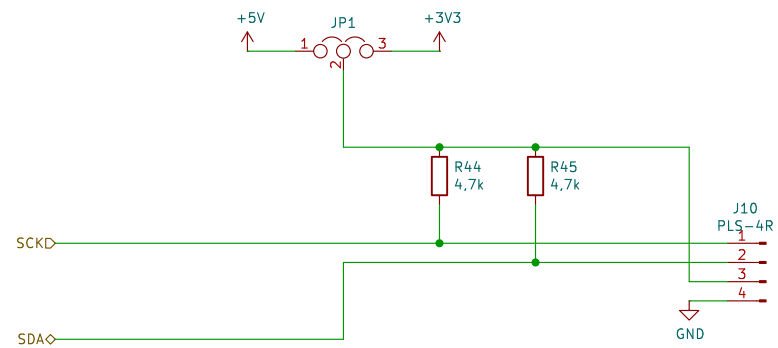
Size: A4 Date: 2026-01-08

KiCad E.D.A. 9.0.2

Rev: 1.1

Id: 17/18

I2C display connector for OLED or LCD display



Yuri Volkov

Sheet: /I2C_DISPLAY_CONNECTOR/
File: I2C_display_connector.kicad_sch

Title: Furnace controller

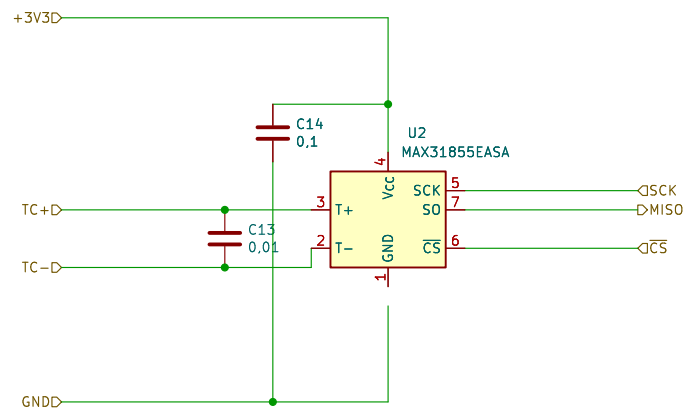
Size: A4 Date: 2026-01-08

KiCad E.D.A. 9.0.2

Rev: 1.1

Id: 18/18

Thermocouple sensor



Yuri Volkov

Sheet: /ISOLATED_TEMP_SENSOR/THERMOCOUPLE0/
File: Thermocouple.kicad_sch

Title: Furnace controller

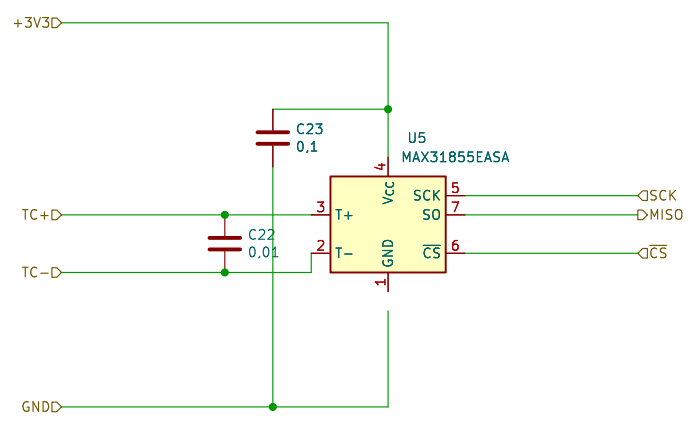
Size: A4 Date: 2026-01-08

KiCad E.D.A. 9.0.2

Rev: 1.1

Id: 3/18

Thermocouple sensor



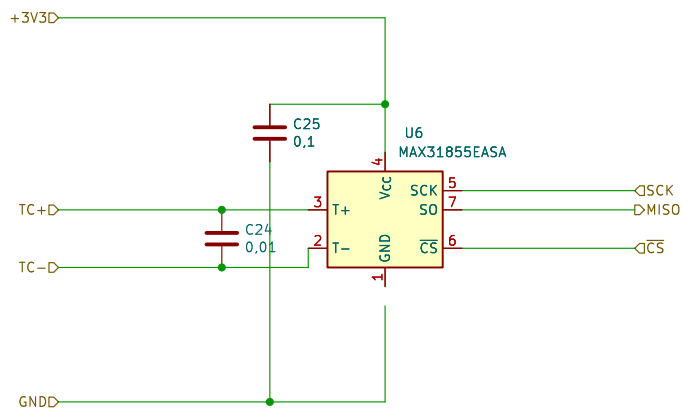
Yuri Volkov

Sheet: /ISOLATED_TEMP_SENSOR/THERMOCOUPLE1/
File: Thermocouple.kicad_sch

Title: Furnace controller

Size: A4	Date: 2026-01-08	Rev: 1.1
KiCad E.D.A. 9.0.2		Id: 4/18

Thermocouple sensor



Yuri Volkov

Sheet: /ISOLATED_TEMP_SENSOR/THERMOCOUPLE2/

File: Thermocouple.kicad_sch

Title: Furnace controller

Size: A4

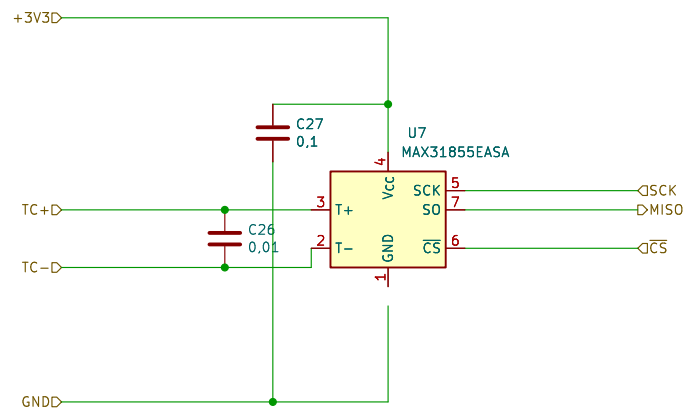
Date: 2026-01-08

Rev: 1.1

KiCad E.D.A. 9.0.2

Id: 5/18

Thermocouple sensor



Yuri Volkov

Sheet: /ISOLATED_TEMP_SENSOR/THERMOCOUPLE3/

File: Thermocouple.kicad_sch

Title: Furnace controller

Size: A4

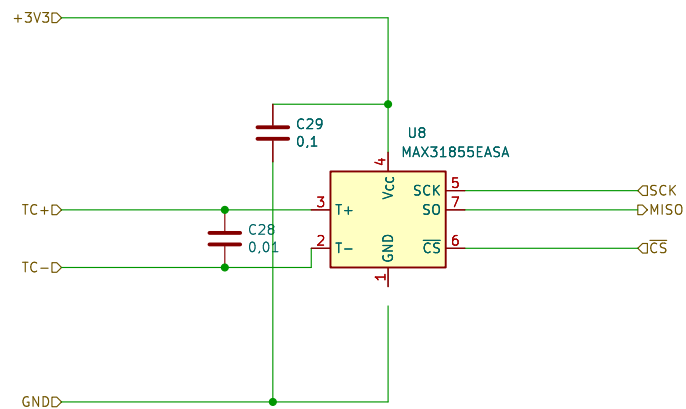
Date: 2026-01-08

Rev: 1.1

KiCad E.D.A. 9.0.2

Id: 6/18

Thermocouple sensor



Yuri Volkov

Sheet: /ISOLATED_TEMP_SENSOR/THERMOCOUPLE4/

File: Thermocouple.kicad_sch

Title: Furnace controller

Size: A4

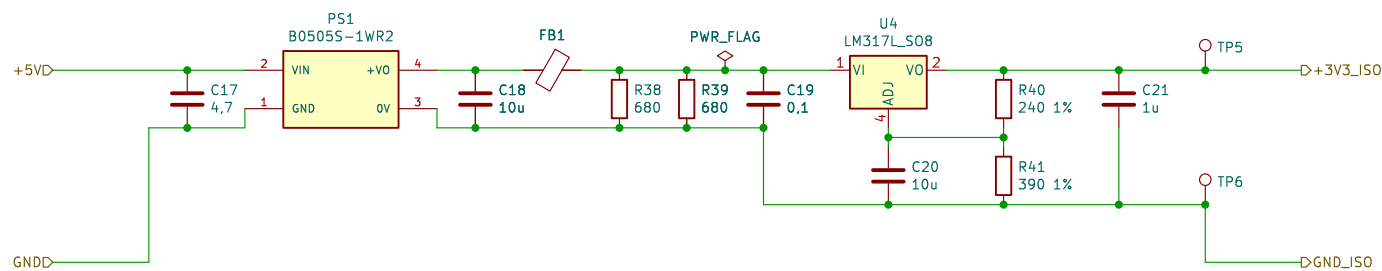
Date: 2026-01-08

Rev: 1.1

KiCad E.D.A. 9.0.2

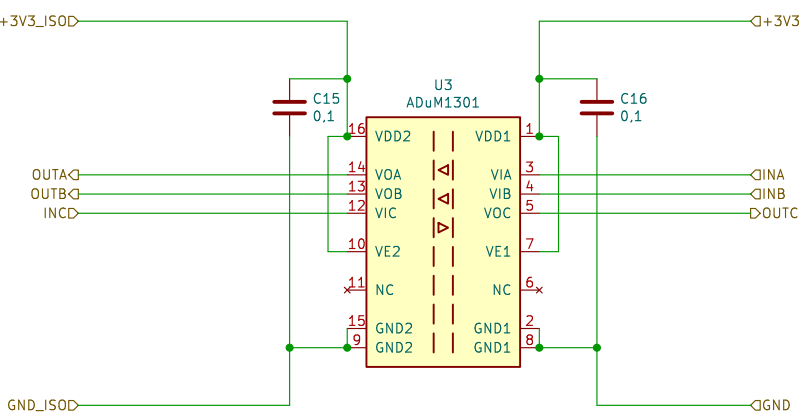
Id: 7/18

Isolated +3V3 power source



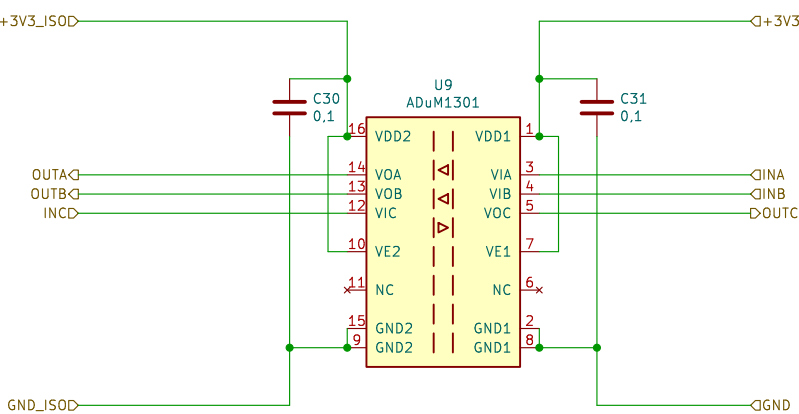
Yuri Volkov		
Sheet: /ISOLATED_TEMP_SENSOR/+3V3_ISOLATED/		
File: +3V3_isolated.kicad_sch		
Title: Furnace controller		
Size: A4	Date: 2026-01-08	Rev: 1.1
KiCad E.D.A. 9.0.2	Id: 8/18	

Isolator for thermocouple



Yuri Volkov		
Sheet: /ISOLATED_TEMP_SENSOR/ISOLATOR0/		
File: Isolator.kicad_sch		
Title: Furnace controller		
Size: A4	Date: 2026-01-08	Rev: 1.1
KiCad E.D.A. 9.0.2		Id: 9/18

Isolator for thermocouple



Yuri Volkov

Sheet: /ISOLATED_TEMP_SENSOR/ISOLATOR1/
File: Isolator.kicad_sch

Title: Furnace controller

Size: A4

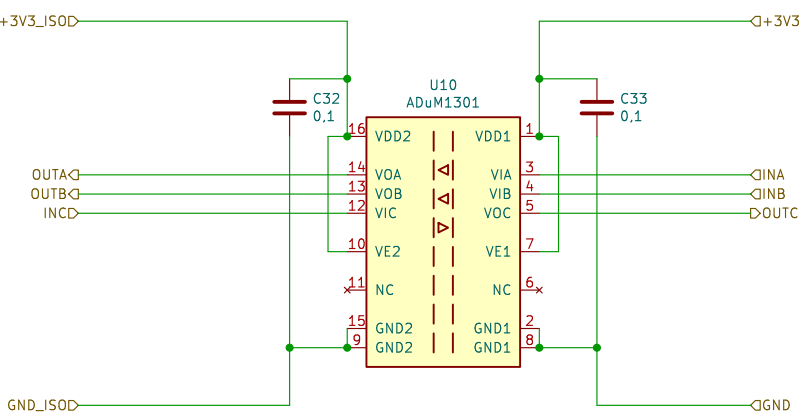
Date: 2026-01-08

Rev: 1.1

KiCad E.D.A. 9.0.2

Id: 10/18

Isolator for thermocouple



Yuri Volkov

Sheet: /ISOLATED_TEMP_SENSOR/ISOLATOR2/
File: Isolator.kicad_sch

Title: Furnace controller

Size: A4

Date: 2026-01-08

Rev: 1.1

KiCad E.D.A. 9.0.2

Id: 11/18