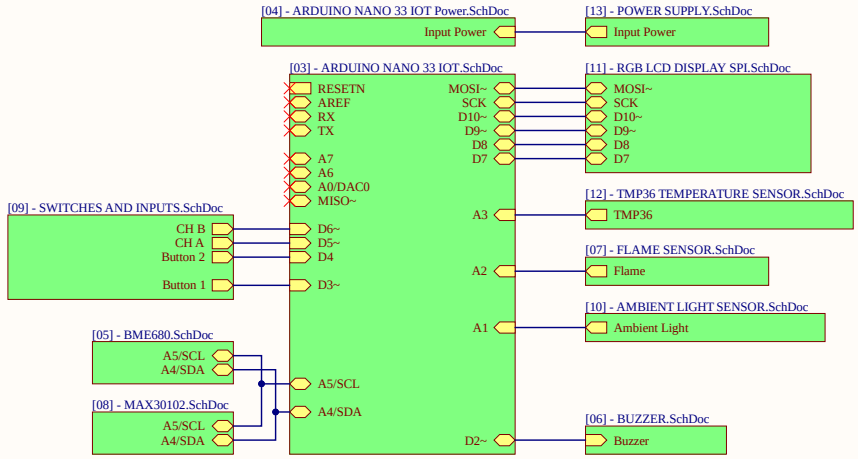
[01] - COVER PAGE.SchDoc

[02] - BLOCK DIAGRAM.SchDoc

[14] - DOC REVISION HISTORY.SchDoc



TEMPLATE NOTES

Set Project Parameters

1) Go to Project -> Project Options -> Parameters
2) Set Company, Project and VersionRevision

Mark Not Fitted Components as
NF

Net Class Example

Differential signal example

TITLE Examples (You can change the color to reflect your company color)

PAGE TITLE

Peripheral / Group of component title

Smaller Ttitle

Schematic Status Explanation

DRAFT - Very early stage of schematic, ignore details.

PRELIMINARY - Close to final schematic.

CHECKED - There should not be any mistakes. Tell the engineer if you find one.

RELEASED - A board with this schematic has been sent to production.

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Title:	Elderly Wearable Device	Variant: [No Variations]
Page Contents:	EWD Base Board Project.SchDoc	Checked by
Size:	DWG NO	Revision: Version 1
Date:	25/08/2024	Sheet 1 of 15

Elderly Wearable Device

Variant: [No Variations]

25/08/2024
Version 1

DESIGN CONSIDERATIONS

DESIGN NOTE:
Example text for informational design notes .

DESIGN NOTE:
Example text for critical design notes.

DESIGN NOTE:
Example text for cautionary design notes.

LAYOUT NOTE:
Example text for critical layout guidelines.

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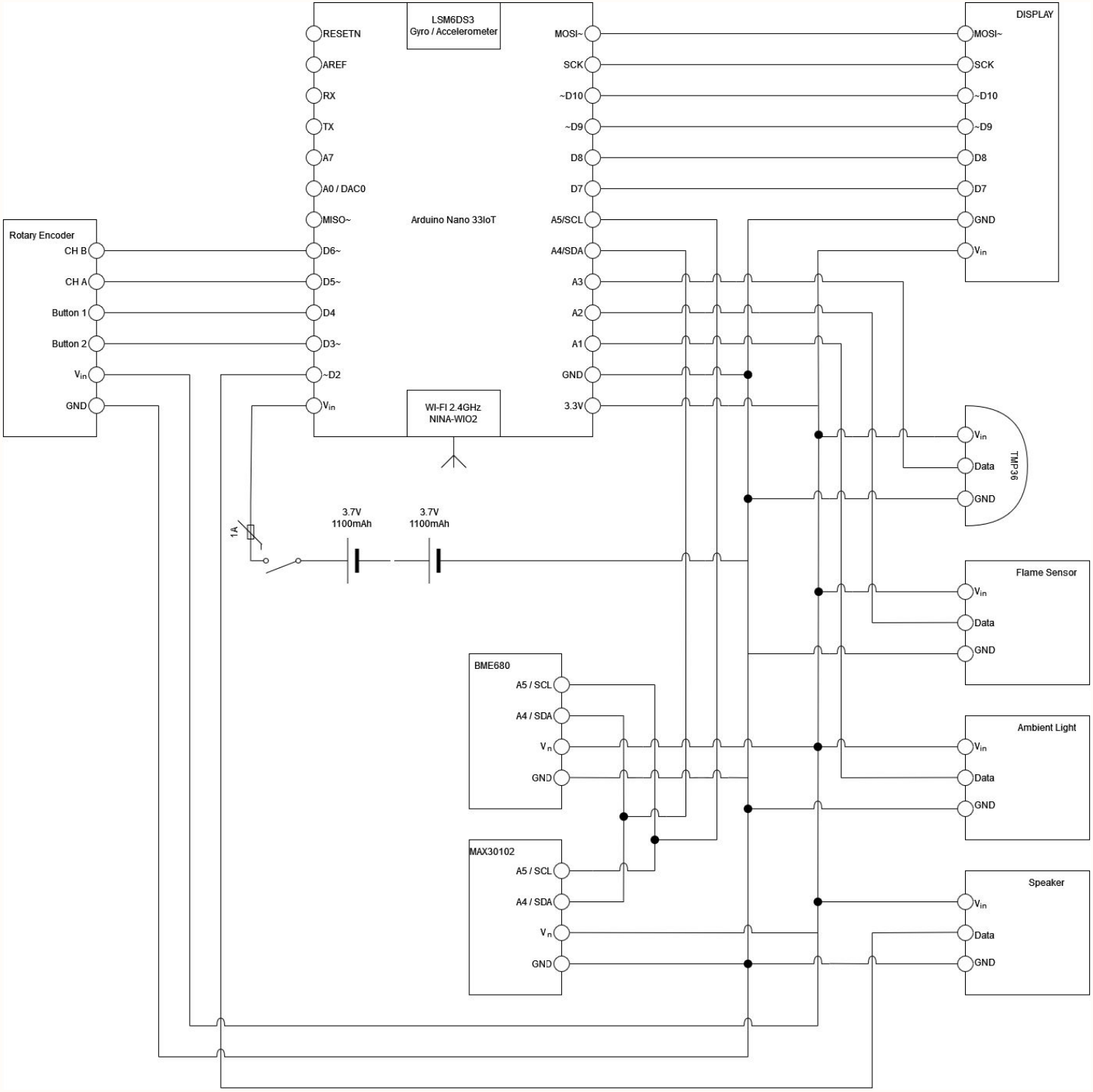
Title: Elderly Wearable Device		Variant: [No Variations]
Page Contents: [01] - COVER PAGE.SchDoc		Checked by
Size:	DWG NO	Revision: Version 1
Date: 25/08/2024		Sheet 2 of 15

Elderly Wearable Device

(Block Diagram)



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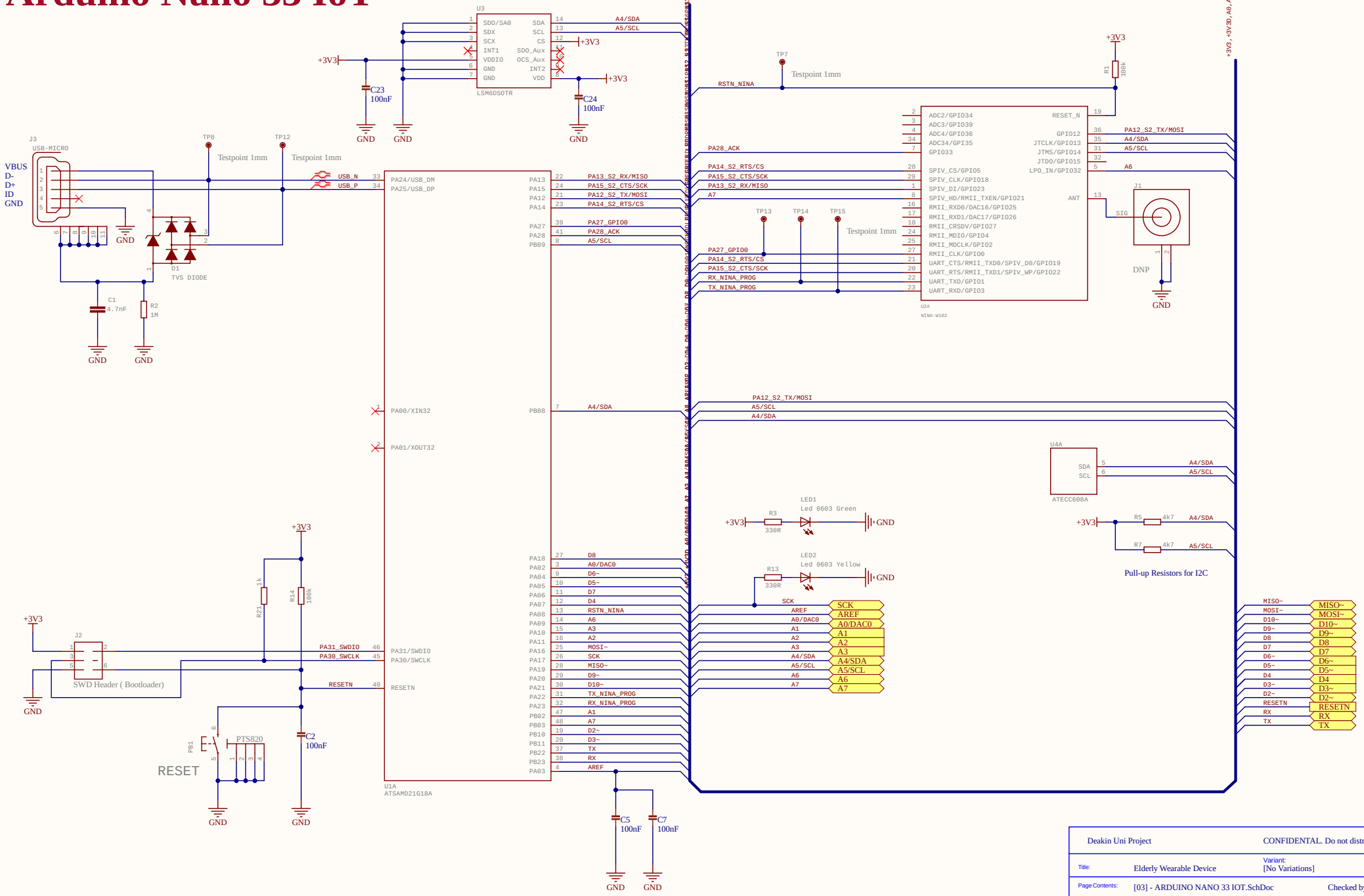
Title: Elderly Wearable Device		Variant: [No Variations]
Page Contents: [02] - BLOCK DIAGRAM.SchDoc		Checked by
Size:	DWG NO	Revision: Version 1
Date: 25/08/2024	Sheet 3 of 15	

Arduino Nano 33 IoT



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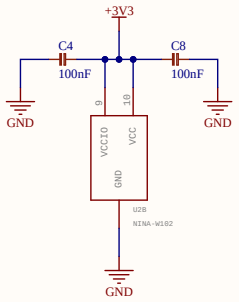
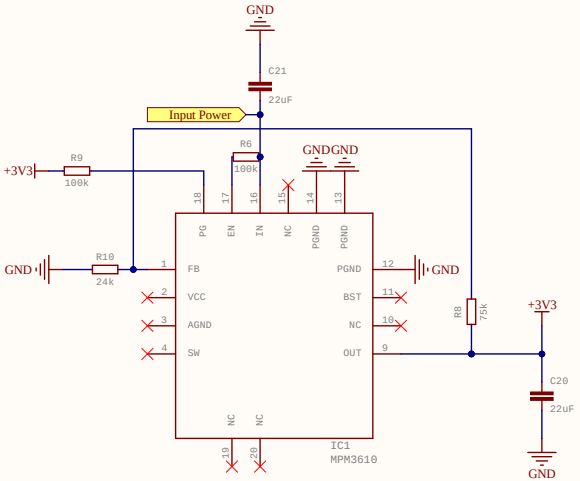
Title: Elderly Wearable Device	Variant: [No Variations]
Page Contents: [03] - ARDUINO NANO 33 IOT.SchDoc	Checked by
Size:	DWG NO / Revision: Version 1
Date: 25/08/2024	Sheet 4 of 15

Arduino Nano 33 IoT Power

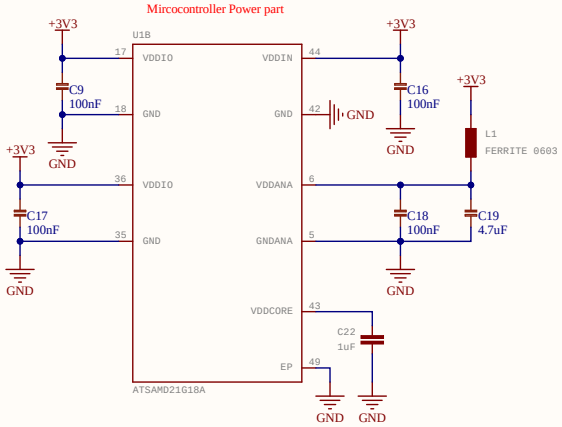
NINA power part

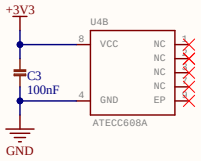


Input Voltage Regulator 4.5V to 21V



Mircocontroller Power part





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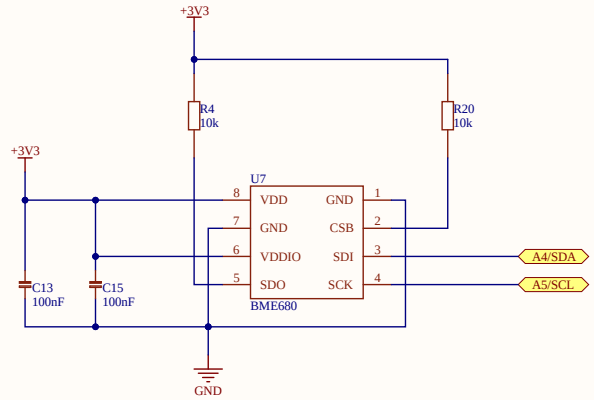
Title:	Elderly Wearable Device	Variant: [No Variations]
Page Contents:	[04] - ARDUINO NANO 33 IOT Power.SchDoc	Checked by
Size:	DWG NO	Revision: Version 1
Date:	25/08/2024	Sheet 5 of 15

BME680 GAS, TEMP, HUMIDITY, PRESSURE SENSOR I2C



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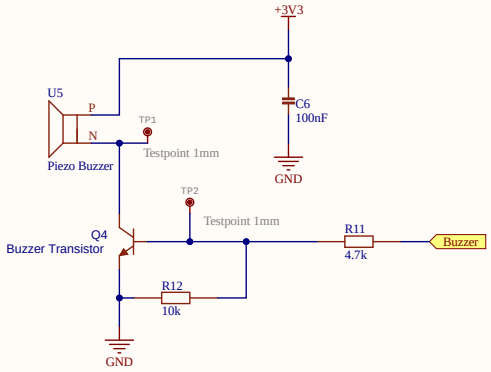
Title: Elderly Wearable Device		Variant: [No Variations]
Page Contents: [05] - BME680.SchDoc		Checked by
Size:	DWG NO	Revision: Version 1
Date: 25/08/2024	Sheet 6 of 15	

BUZZER



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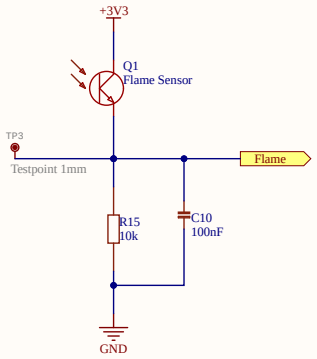
Title: Elderly Wearable Device		Variant: [No Variations]
Page Contents: [06] - BUZZER.SchDoc		Checked by
Size:	DWG NO	Revision: Version 1
Date: 25/08/2024	Sheet 7 of 15	

FLAME SENSOR



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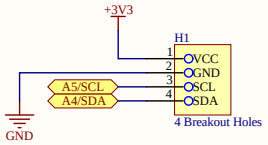
Title: Elderly Wearable Device		Variant: [No Variations]
Page Contents: [07] - FLAME SENSOR.SchDoc		Checked by
Size:	DWG NO	Revision: Version 1
Date: 25/08/2024	Sheet 8 of 15	

MAX30102 HEART RATE & SPO2 SENSOR

Note: this sensor will be connected via 4 wire ribbon cable to the PCB



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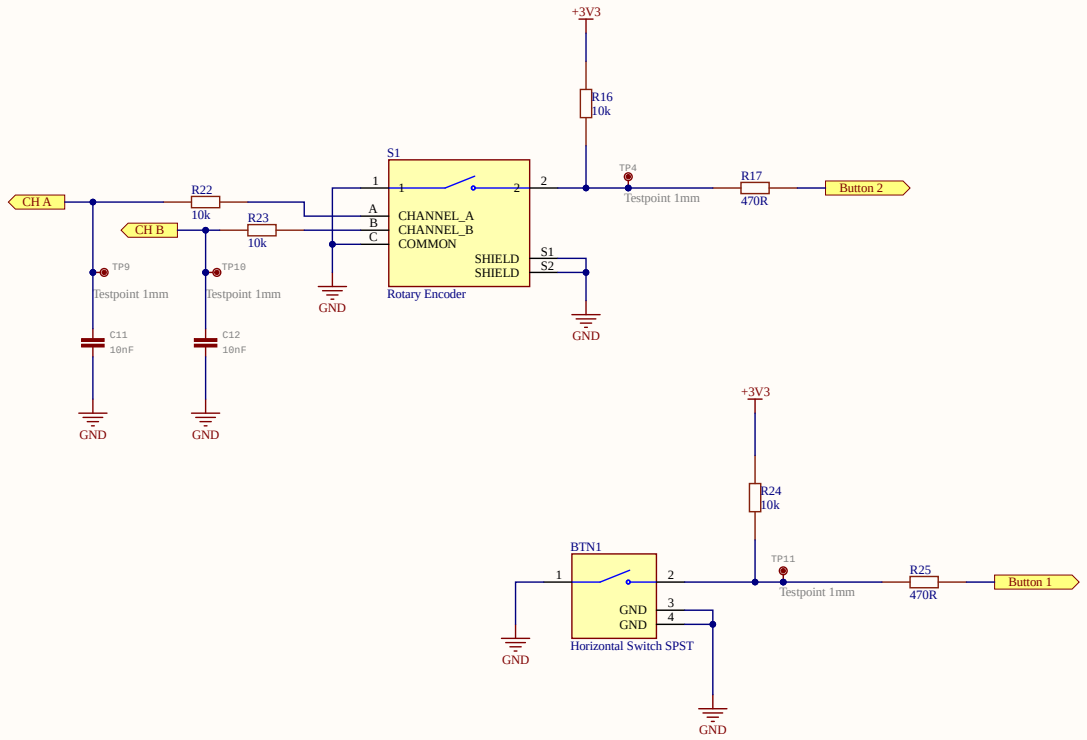
Title: Elderly Wearable Device		Variant: [No Variations]
Page Contents: [08] - MAX30102.SchDoc		Checked by
Size:	DWG NO	Revision: Version 1
Date: 25/08/2024	Sheet 9 of 15	

SWITCHES AND INPUTS



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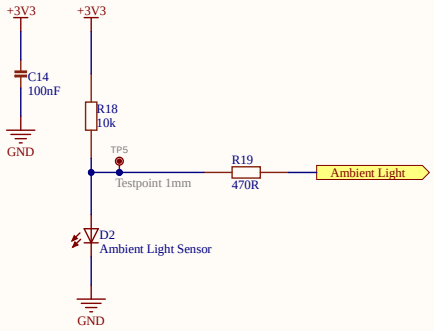
Title:	Elderly Wearable Device	Variant: [No Variations]
Page Contents:	[09] - SWITCHES AND INPUTS.SchDoc	Checked by
Size:	DWG NO	Revision: Version 1
Date:	25/08/2024	Sheet 10 of 15

AMBIENT LIGHT SENSOR



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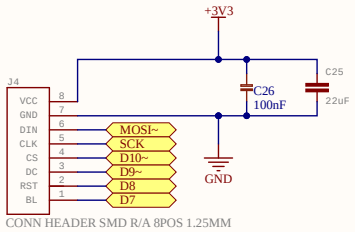
Title: Elderly Wearable Device		Variant: [No Variations]
Page Contents: [10] - AMBIENT LIGHT SENSOR.SchDoc		Checked by
Size:	DWG NO	Revision: Version 1
Date: 25/08/2024	Sheet 11 of 15	

RBG LCD DISPLAY SPI

Note: the display is an external module, connected to the PCB via a disconectable cable



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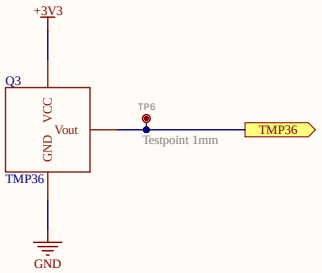
Title: Elderly Wearable Device		Variant: [No Variations]
Page Contents: [11] - RGB LCD DISPLAY SPI.SchDoc		Checked by
Size:	DWG NO	Revision: Version 1
Date: 25/08/2024	Sheet 12 of 15	

TMP36 TEMPERATURE SENSOR



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Title: Elderly Wearable Device		Variant: [No Variations]
Page Contents: [12] - TMP36 TEMPERATURE SENSOR.SchDoc		Checked by
Size:	DWG NO	Revision: Version 1
Date: 25/08/2024	Sheet 13 of 15	

POWER SUPPLY

DC Power supplised by 2 3.7V 1100mAh Lipo Batteries

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Title: Elderly Wearable Device		Variant: [No Variations]
Page Contents: [13] - POWER SUPPLY.SchDoc		Checked by
Size:	DWG NO	Revision: Version 1
Date: 25/08/2024	Sheet 14 of 15	

DOC: REVISION HISTORY

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Title: Elderly Wearable Device		Variant: [No Variations]
Page Contents: [14] - DOC REVISION HISTORY.SchDoc		Checked by
Size:	DWG NO	Revision: Version 1
Date: 25/08/2024		Sheet 15 of 15