



Gastroscopy Controller

Gastroscopy Controller

09.11.2022

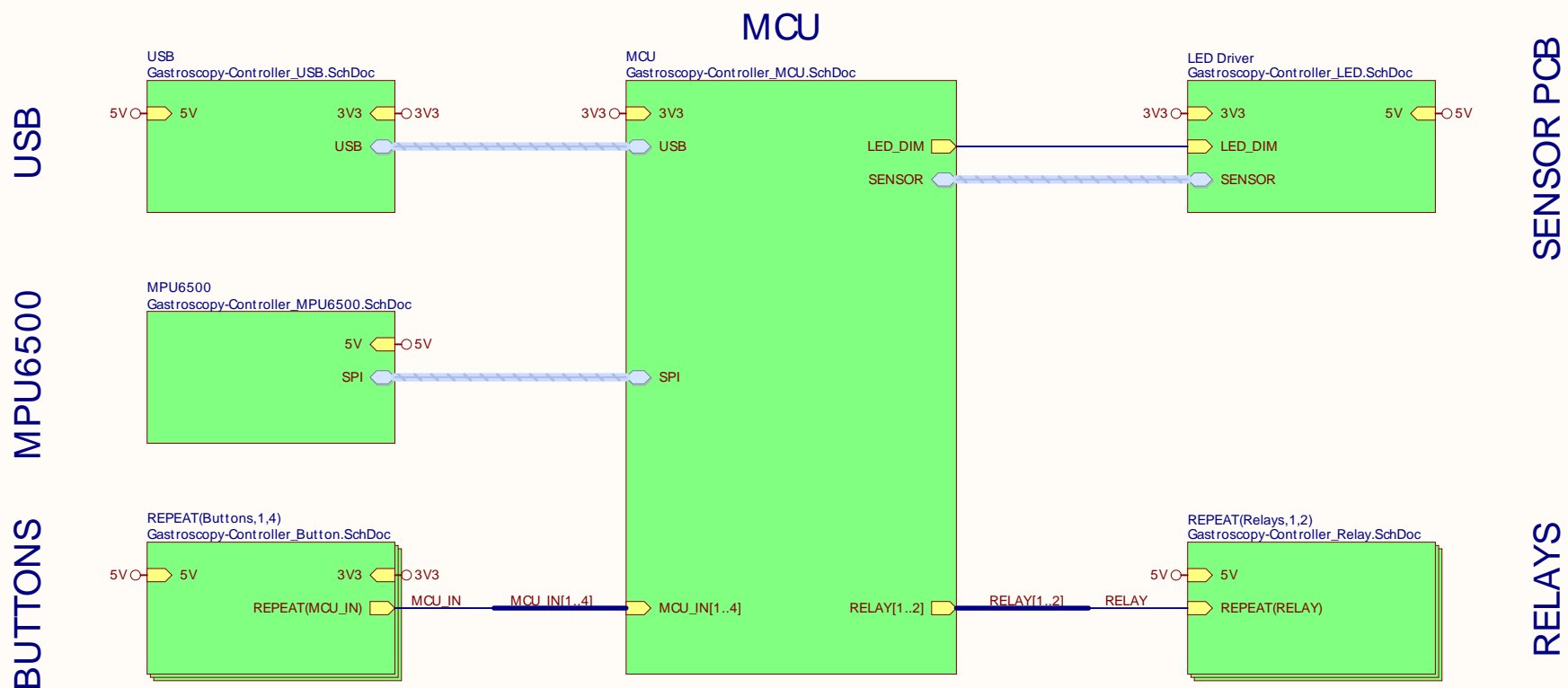
[Overview](#)
[Gastroscopy-Controller_Overview.SchDoc](#)


Company: MRobot, LLC

Project: Gastroscopy Controller

Jira Key: GSTRONTRL

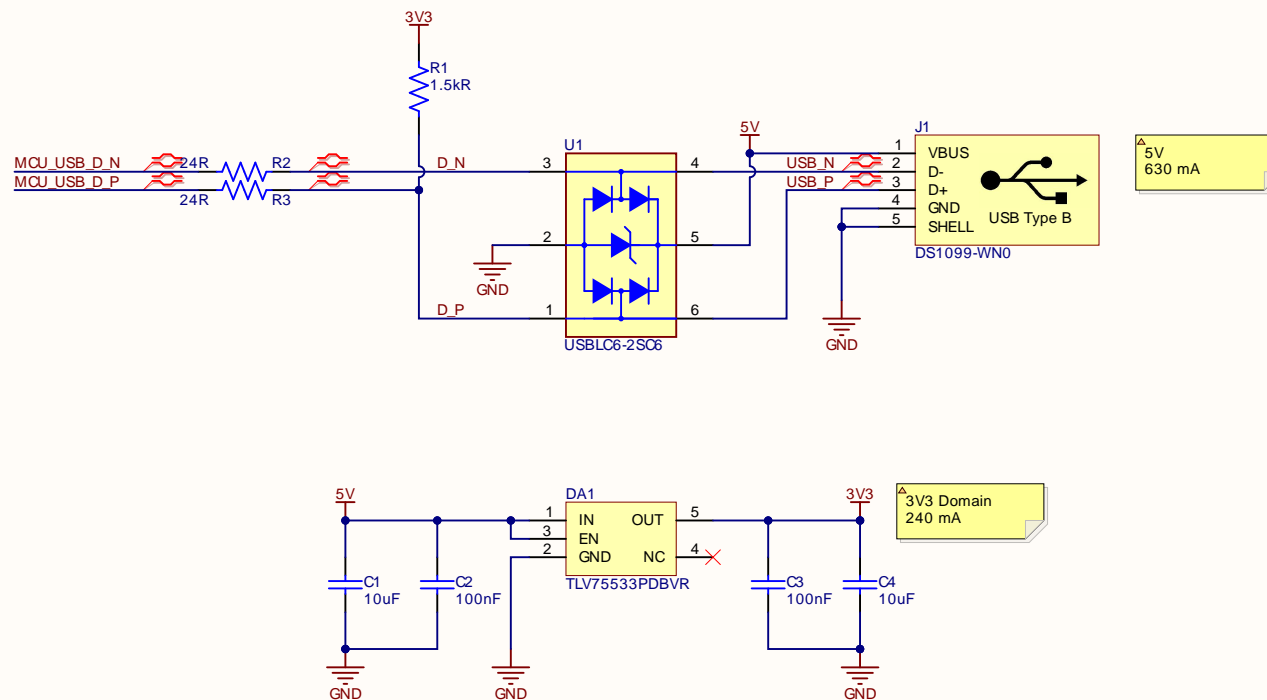
| REVISION | DESCRIPTION | DATE | ECO | ENGINEER |
|----------|-------------|------------|------|----------------|
| 0.1.0 | Prototype | 10/17/2022 | 0000 | Podlesnyi V.S. |




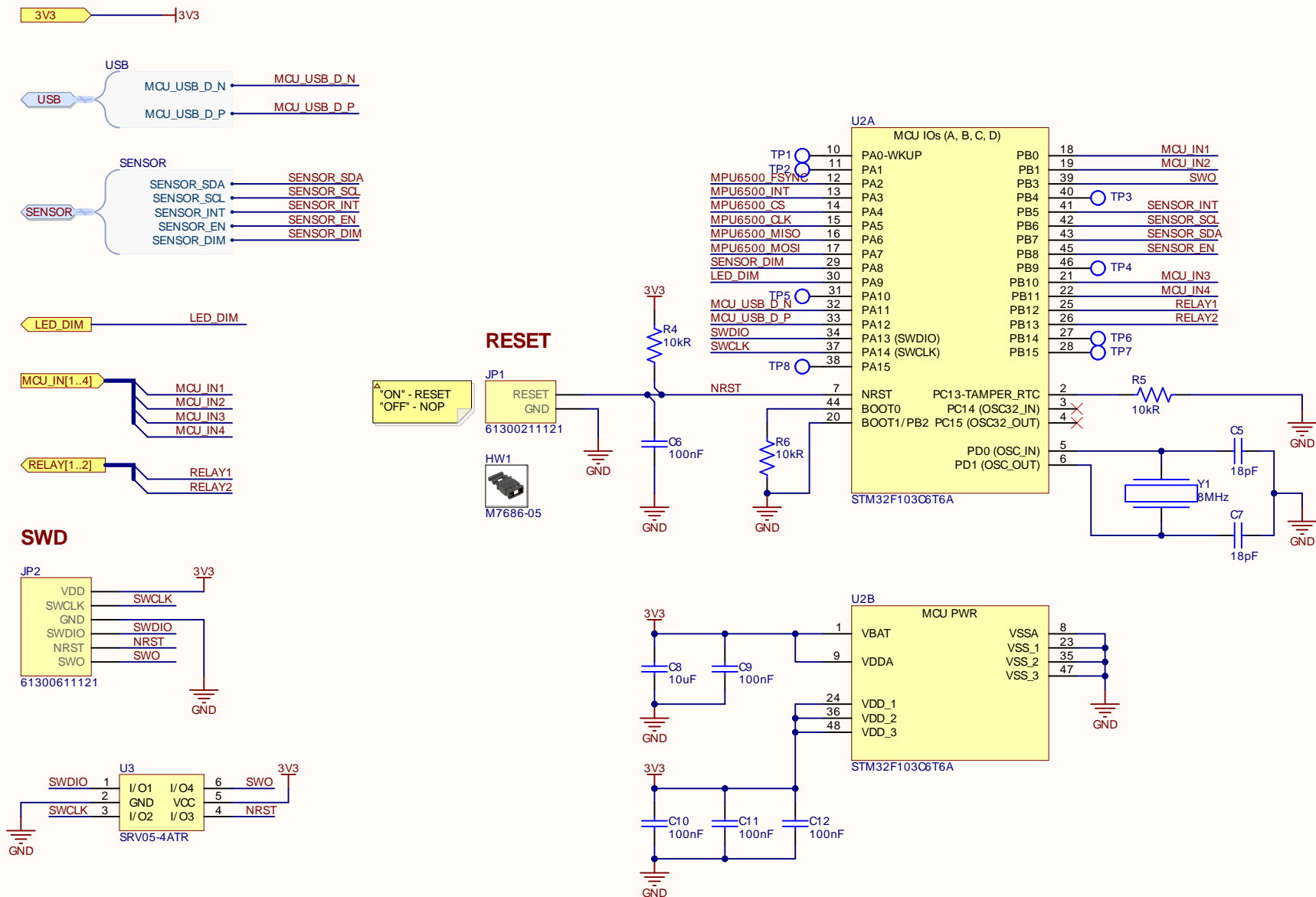
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|--|-------------------|----------------|--|---|
| Title: Overview | | | MRobot, LCC nab. reki Karpovki, d. 5/3E Saint-Petersburg, 197022 Ph: +7 (911) 701-51-99 |  www.mrobots.ru |
| Project: Gastroscopy Controller | | | | |
| Size A | Number: 0000-0000 | Revision 0.1.0 | Engineer: Podlesnyi Vasilii | |
| Date: 09.11.2022 | Time: 8:08:55 | Sheet 2 of 12 | | |
| File: Gastroscopy-Controller_Overview.SchDoc | | | | |


5V

3V3



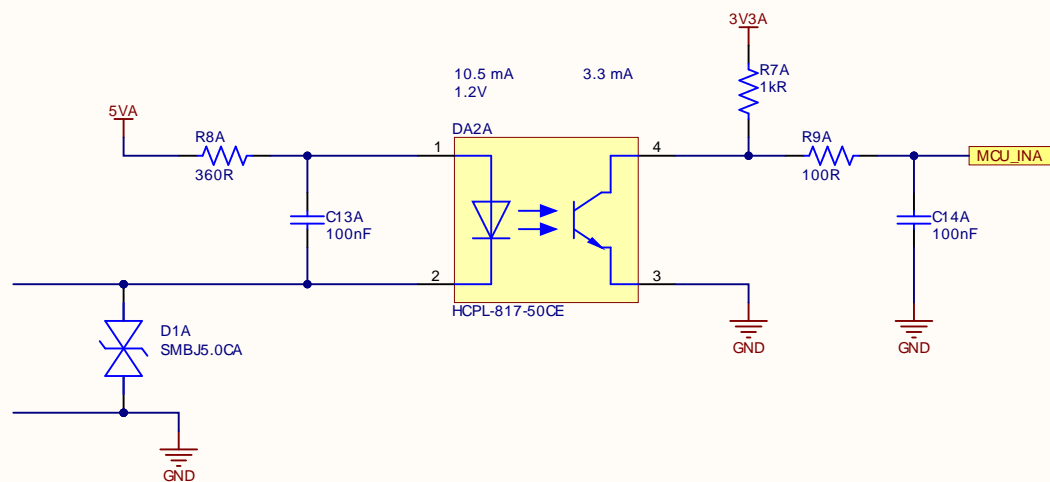
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|---|-------------------|----------------|--|---|
| Title: USB | | | MRobot, LCC nab. reki Karpovki, d. 5/3E Saint-Petersburg, 197022 Ph: +7 (911) 701-51-99 |  www.mrobots.ru |
| Project: Gastroscopy Controller | | | | |
| Size A | Number: 0000-0000 | Revision 0.1.0 | Engineer: Podlesnyi Vasilii | |
| Date: 09.11.2022 | Time: 8:08:55 | Sheet 3 of 12 | | |
| File: Gastroscopy-Controller_USB.SchDoc | | | | |




| | | | | |
|---|-------------------|----------------|--|---|
| Title: MCU | | | MRobot, LCC nab. reki Karpovki, d. 5/3E Saint-Petersburg, 197022 Ph: +7 (911) 701-51-99 |  |
| Project: Gastroscopy Controller | | | | |
| Size A | Number: 0000-0000 | Revision 0.1.0 | Engineer: Podlesnyi Vasilii | www.mrobots.ru |
| Date: 09.11.2022 | Time: 8:08:55 | Sheet 4 of 12 | | |
| File: Gastroscopy-Controller MCU.SchDoc | | | | |

5VA 5VA

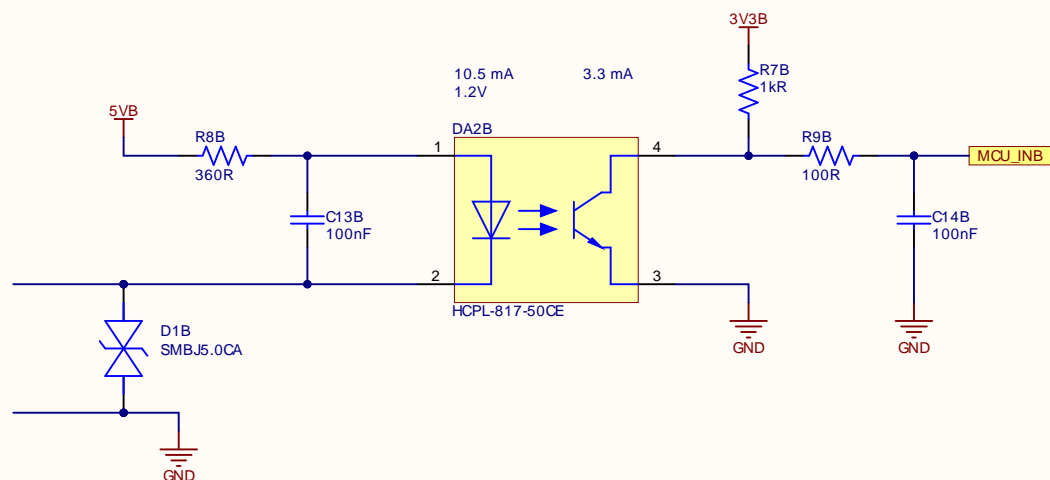
3V3A 3V3A




| | | | | |
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| Title: Buttons | | | MRobot, LCC nab. reki Karpovki, d. 5/3E Saint-Petersburg, 197022 Ph: +7 (911) 701-51-99 |  www.mrobots.ru |
| Project: Gastroscopy Controller | | | | |
| Size A | Number: 0000-0000 | Revision 0.1.0 | Engineer: Podlesnyi Vasilii | |
| Date: 09.11.2022 | Time: 8:08:56 | Sheet 5.1 of 12 | | |
| File: Gastroscopy-Controller_Button.SchDoc | | | | |

5VB

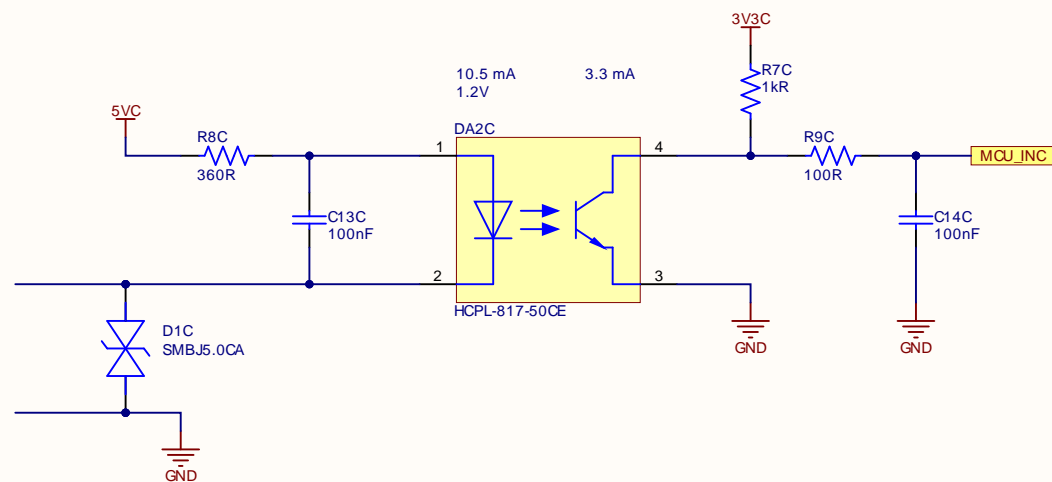
3V3B




| | | | | |
|--|-------------------|-----------------|--|---|
| Title: Buttons | | | MRobot, LCC nab. reki Karpovki, d. 5/3E Saint-Petersburg, 197022 Ph: +7 (911) 701-51-99 |  www.mrobots.ru |
| Project: Gastroscopy Controller | | | | |
| Size A | Number: 0000-0000 | Revision 0.1.0 | Engineer: Podlesnyi Vasilii | |
| Date: 09.11.2022 | Time: 8:08:56 | Sheet 5.2 of 12 | | |
| File: Gastroscopy-Controller_Button.SchDoc | | | | |

5VC

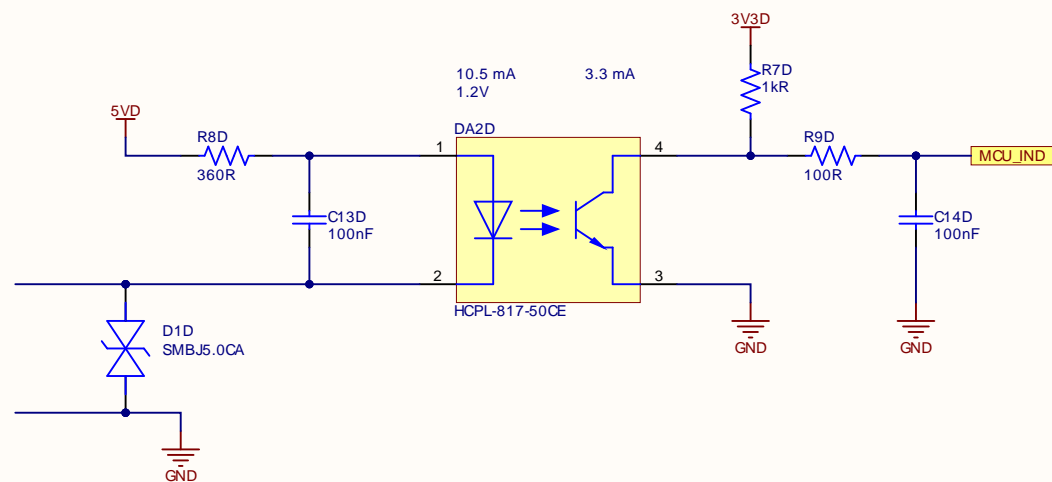
3V3C




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|--|-------------------|----------------|--|---|
| Title: Buttons | | | MRobot, LCC nab. reki Karpovki, d. 5/3E Saint-Petersburg, 197022 Ph: +7 (911) 701-51-99 |  www.mrobots.ru |
| Project: Gastroscopy Controller | | | | |
| Size A | Number: 0000-0000 | Revision 0.1.0 | Engineer: Podlesnyi Vasili | |
| Date: 09.11.2022 | Time: 8:08:56 | Sheet 5.3of 12 | | |
| File: Gastroscopy-Controller_Button.SchDoc | | | | |

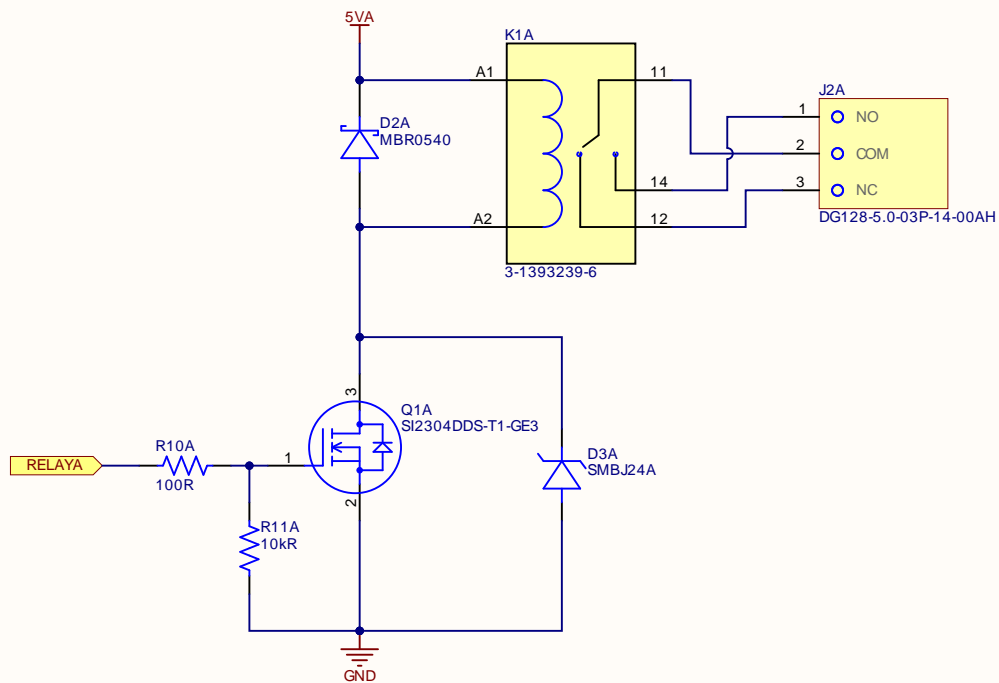
5VD


3V3D

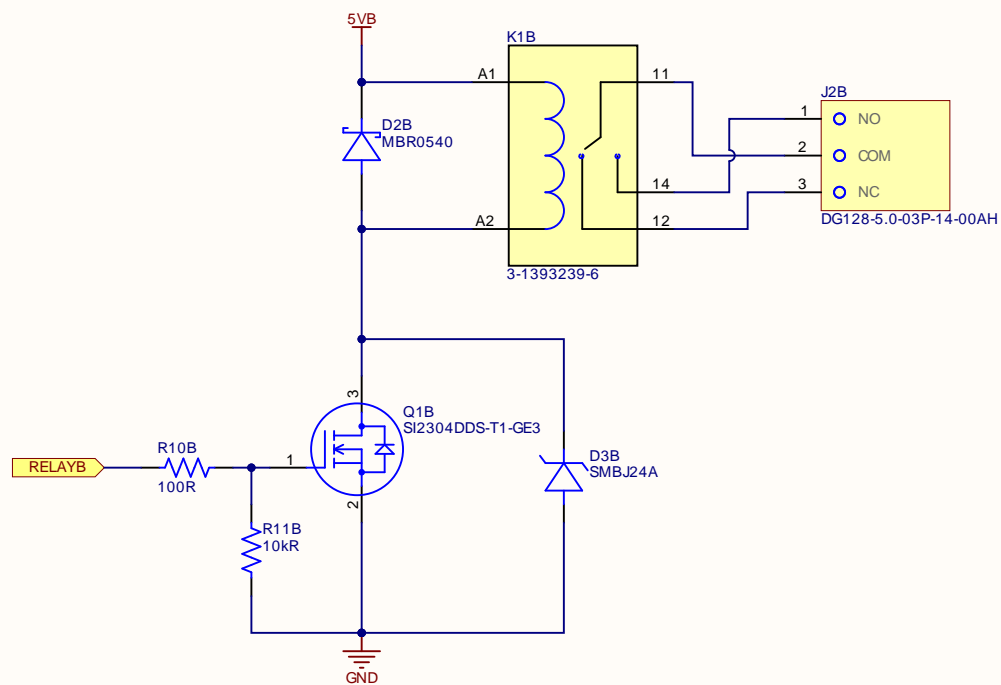



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|--|-------------------|----------------|--|---|
| Title: Buttons | | | MRobot, LCC nab. reki Karpovki, d. 5/3E Saint-Petersburg, 197022 Ph: +7 (911) 701-51-99 |  www.mrobots.ru |
| Project: Gastroscopy Controller | | | | |
| Size A | Number: 0000-0000 | Revision 0.1.0 | Engineer: Podlesnyi Vasili | |
| Date: 09.11.2022 | Time: 8:08:56 | Sheet 5.4of 12 | | |
| File: Gastroscopy-Controller_Button.SchDoc | | | | |

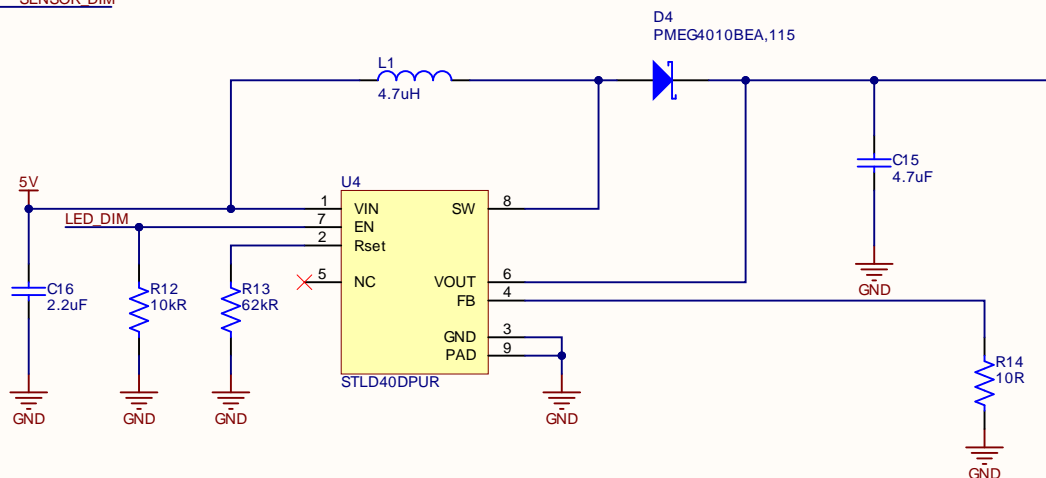
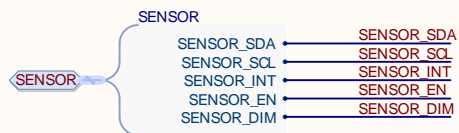
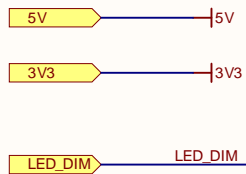
5VA



| | | | | |
|---|-------------------|-----------------|--|---|
| Title: Relays | | | MRobot, LCC nab. reki Karpovki, d. 5/3E Saint-Petersburg, 197022 Ph: +7 (911) 701-51-99 |  www.mrobots.ru |
| Project: Gastroscopy Controller | | | | |
| Size A | Number: 0000-0000 | Revision 0.1.0 | Engineer: Podlesnyi Vasilii | |
| Date: 09.11.2022 | Time: 8:08:56 | Sheet 6.1 of 12 | | |
| File: Gastroscopy-Controller_Relay.SchDoc | | | | |

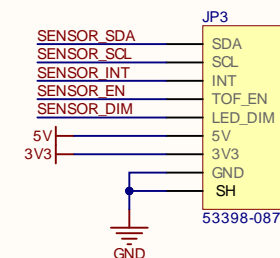


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|---|--------------------------|-----------------------|---|---|
| Title: Relays | | | MRobot, LCC nab. reki Karpovki, d. 5/3E Saint-Petersburg, 197022 Ph: +7 (911) 701-51-99 |  www.mrobots.ru |
| Project: Gastroscoy Controller | | | | |
| Size A | Number: 0000-0000 | Revision 0.1.0 | Engineer: | |
| Date: 09.11.2022 Time: 8:08:56 | | Sheet 6.2of 12 | Podlesnyi Vasilii | |
| File: Gastroscoy-Controller_Relay_SchDoc | | | | |



Vf = 3.2V
number = 6

Vout = 19.2 V
Iout = 15 mA
Ilim = 400 mA



Title: LED Driver

Project: Gastroscopy Controller

Size A Number: 0000-0000

Date: 09.11.2022 Time: 8:08:56

File: Gastroscopy-Controller_LED.SchDoc

Revision 0.1.0

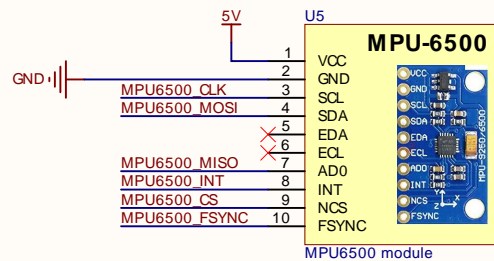
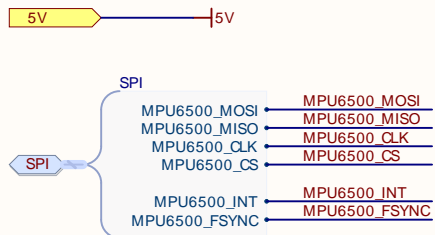
Sheet 7 of 12


MRobot, LCC
nab. reki Karpovki, d. 5/3E
Saint-Petersburg, 197022
Ph: +7 (911) 701-51-99

Engineer:
Podlesnyi Vasilii



www.mrobots.ru



| | | | | |
|---|-------------------|----------------|--|---|
| Title: MPU6500 | | | MRobot, LCC nab. reki Karpovki, d. 5/3E Saint-Petersburg, 197022 Ph: +7 (911) 701-51-99 |  www.mrobots.ru |
| Project: Gastroscopy Controller | | | | |
| Size A | Number: 0000-0000 | Revision 0.1.0 | Engineer: | |
| Date: 09.11.2022 | Time: 8:08:56 | Sheet 8 of 12 | Podlesnyi Vasilii | |
| File: Gastroscopy-Controller MPU6500.SchDoc | | | | |