



Gastroscopy Controller

Gastroscopy Controller

09.11.2022

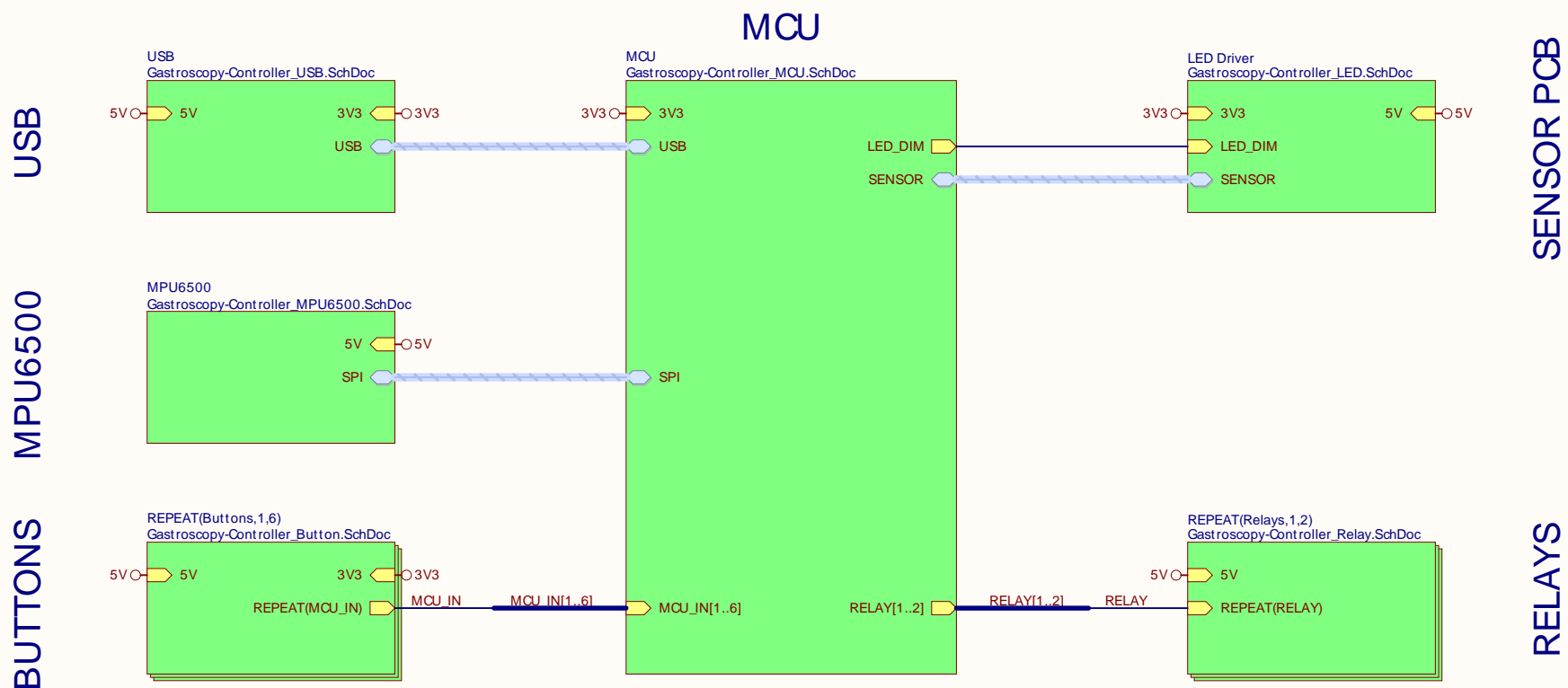
[Overview](#)
[Gastroscopy-Controller_Overview.SchDoc](#)


Company: MRobot, LLC

Project: Gastroscopy Controller

Jira Key: GSTRONTRL

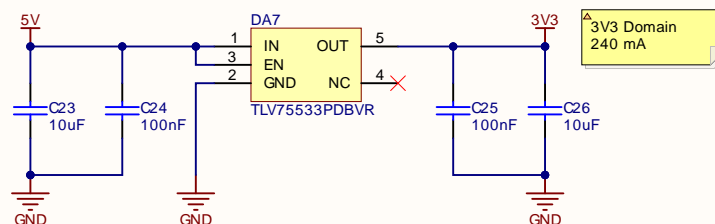
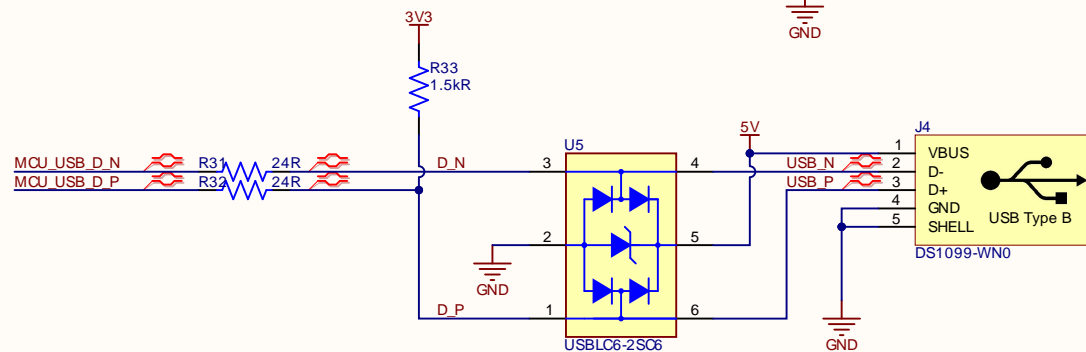
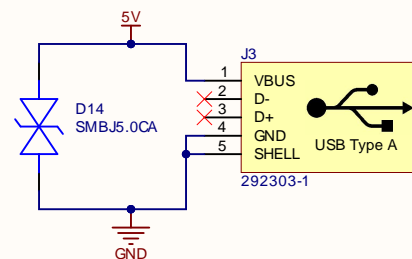
REVISION	DESCRIPTION	DATE	ECO	ENGINEER
0.1.0	Prototype	10/17/2022	0000	Podlesnyi V.S.




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: 22:55:43	Sheet 2 of 14		
File: Gastroscopy-Controller_Overview.SchDoc				

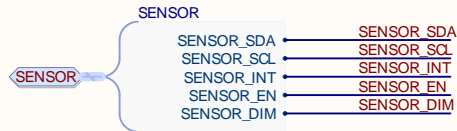
5V

3V3

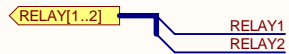
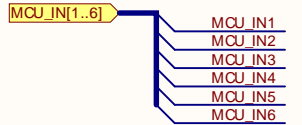


Title: USB			MRobot, LCC nab. reki Karpovki, d. 5/3E Saint-Petersburg, 197022 Ph: +7 (911) 701-51-99	 www.mrobots.ru
Project: Gastroscopy Controller				
Size A	Number: 0000-0000	Revision 0.1.0	Engineer: Podlesnyi Vasilii	
Date: 09.11.2022	Time: 22:55:44	Sheet 3 of 14		
File: Gastroscopy-Controller_USB.SchDoc				

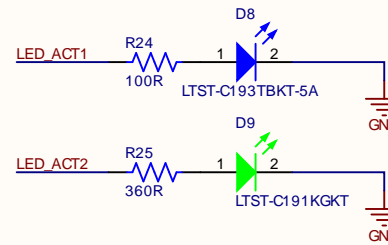
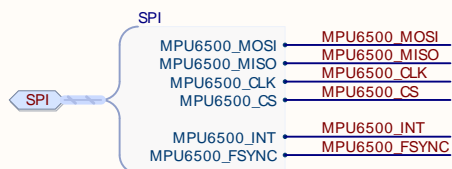
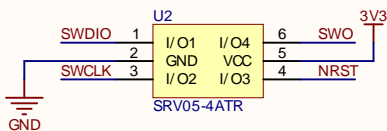
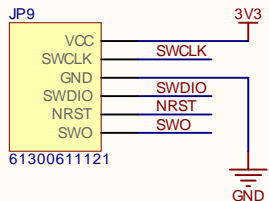
3V3



LED_DIM

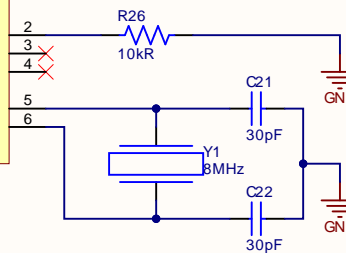
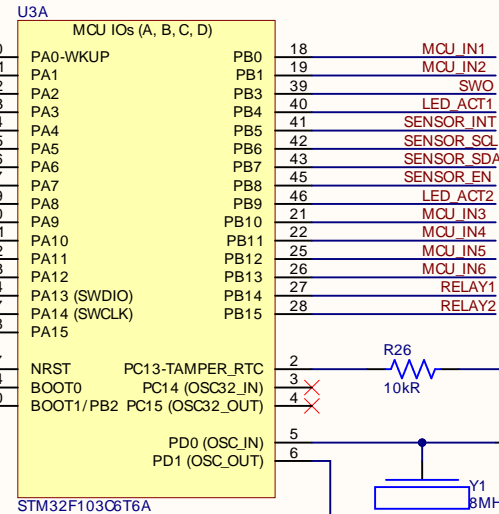
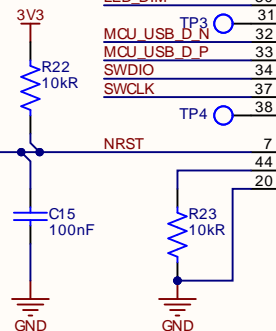


SWD

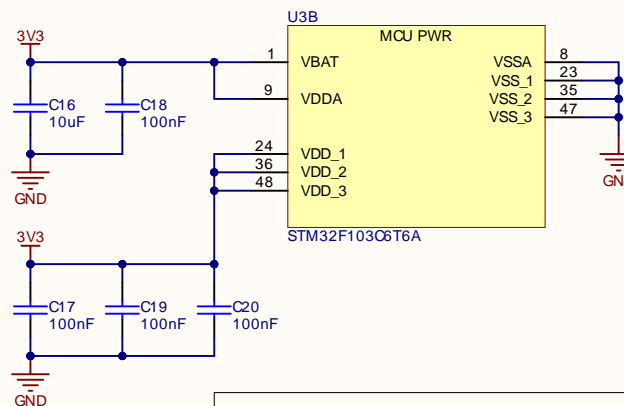


RESET

"ON" - RESET
"OFF" - NOP



$$CL=18pF$$
$$CL=(C1 \cdot C2 / (C1 + C2)) = 18$$
$$C1=Cx+Cp=36pF$$
$$C2=Cx+Cp=36pF$$
$$Cx = 7 \quad Cp = 29$$



Title: MCU

Project: Gastroscopy Controller

Size A Number: 0000-0000

Date: 09.11.2022 Time: 22:55:44

File: Gastroscopy-Controller MCU.SchDoc

Revision 0.1.0

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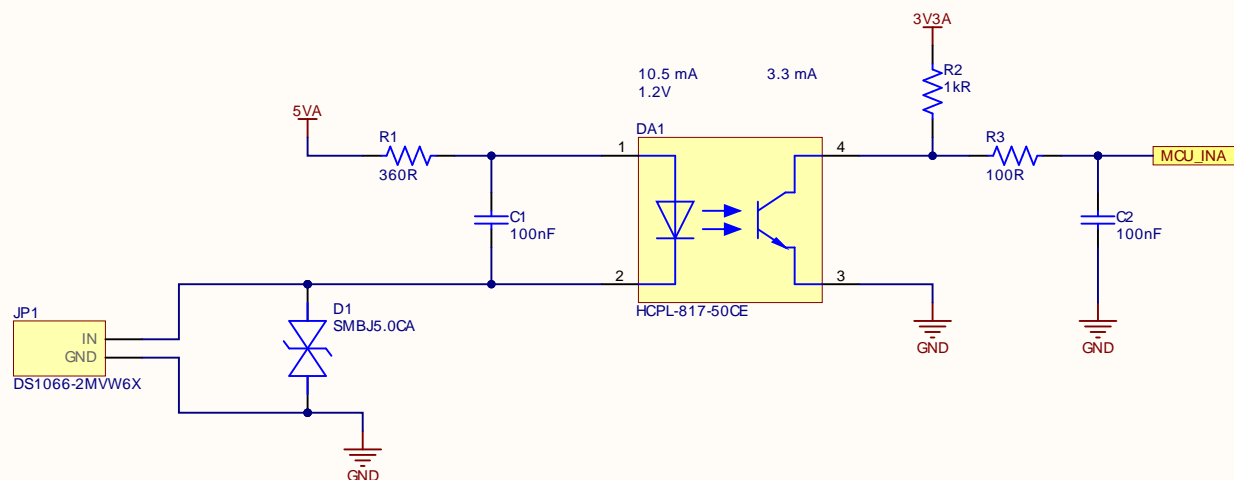
MRobot, LCC
nab. reki Karpovki, d. 5/3E
Saint-Petersburg, 197022
Ph: +7 (911) 701-51-99

Engineer:
Podlesnyi Vasilii



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5VA
3V3A



ADDITIONAL PARTS




HW1
DS1066-2-FCW

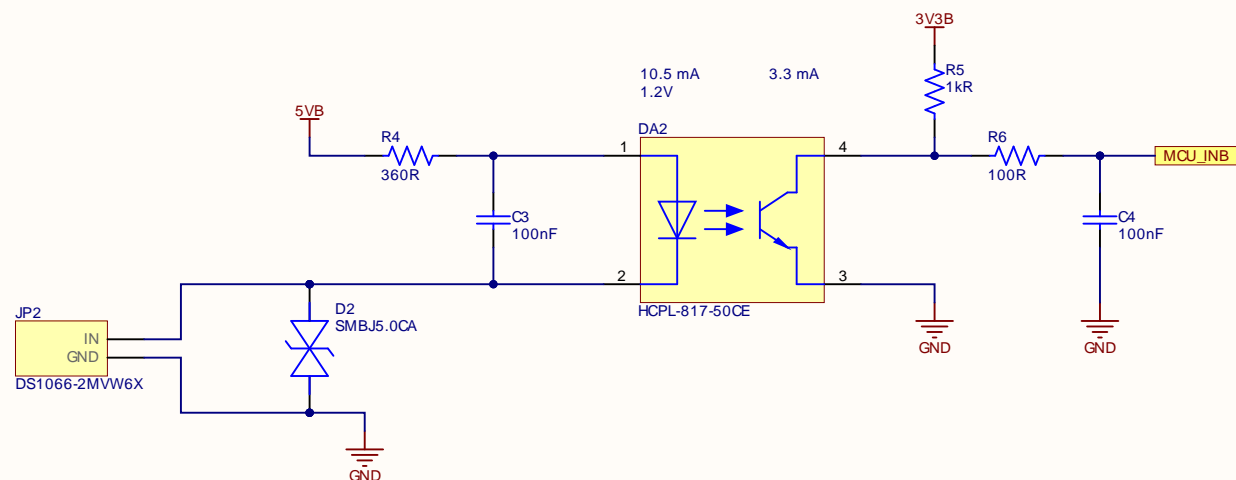
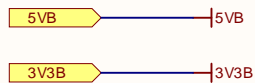


HW2
T-DS1066-SC600-N-019



HW3
T-DS1066-SC600-N-019

Title: Buttons			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
Date: 09.11.2022	Time: 22:55:44	Sheet 5 of 14	
File: Gastroscopy-Controller_Button.SchDoc			 www.mrobots.ru



ADDITIONAL PARTS



HW4
DS1066-2-FCW




HW5
T-DS1066-SC600-N-019



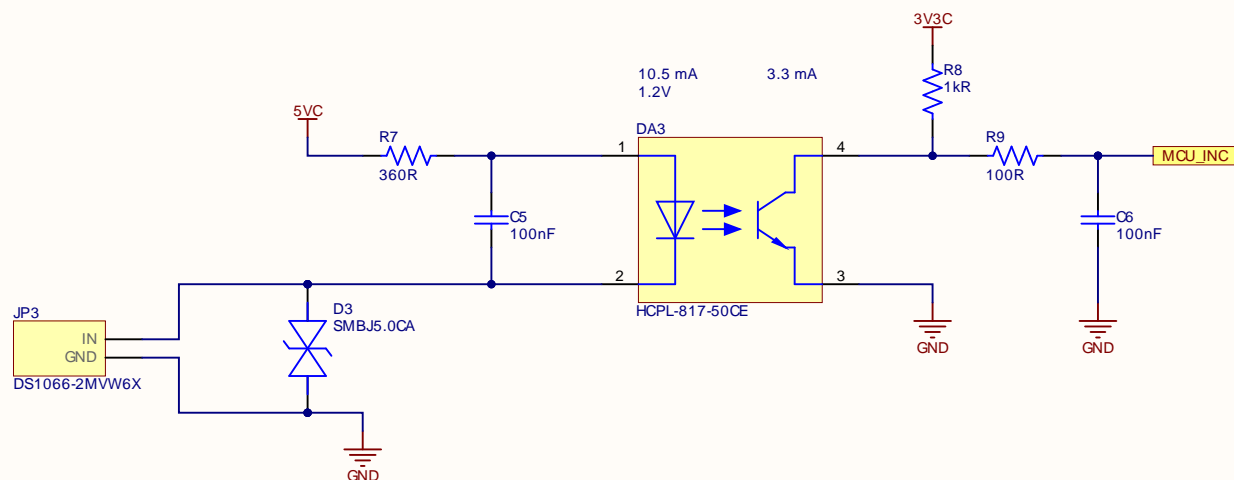
HW6
T-DS1066-SC600-N-019

Title: Buttons			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 Vasili
Date: 09.11.2022	Time: 22:55:44	Sheet 6 of 14	
File: Gastroscopy-Controller_Button.SchDoc			


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5VC

3V3C



ADDITIONAL PARTS



HW7
DS1066-2-FCW




HW8
T-DS1066-SC600-N-019



HW9
T-DS1066-SC600-N-019

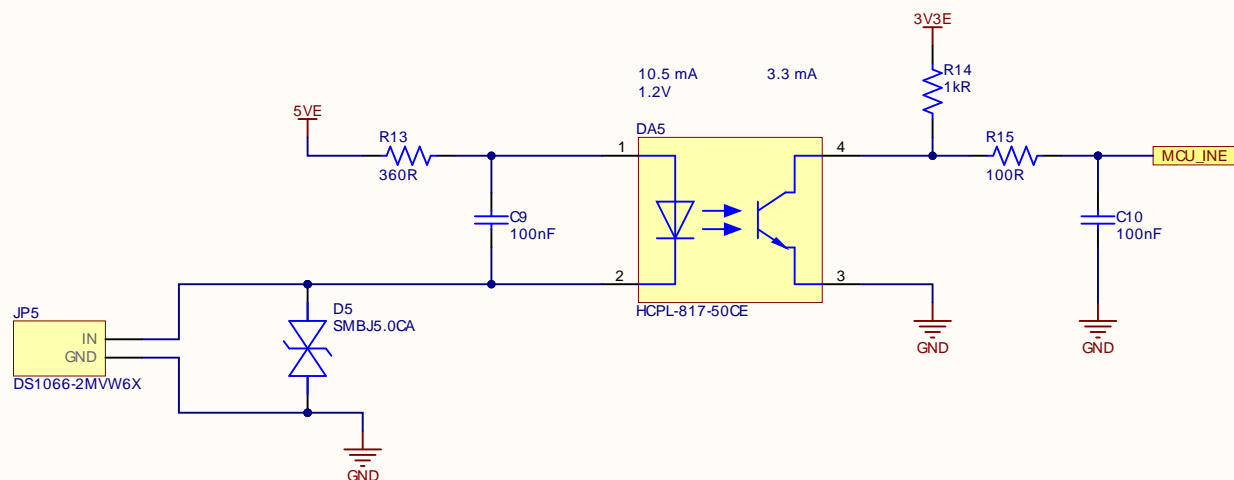
Title: Buttons			MRobot, LCC nab. reki Karpovki, d. 5/3E Saint-Petersburg, 197022 Ph: +7 (911) 701-51-99
Project: Gastroscopy Controller			
Size A	Number: 0000-0000	Revision 0.1.0	Engineer: Podlesnyi Vasilii
Date: 09.11.2022	Time: 22:55:44	Sheet 7 of 14	
File: Gastroscopy-Controller_Button.SchDoc			

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5VE
3V3E



ADDITIONAL PARTS




HW13
DS1066-2-FCW

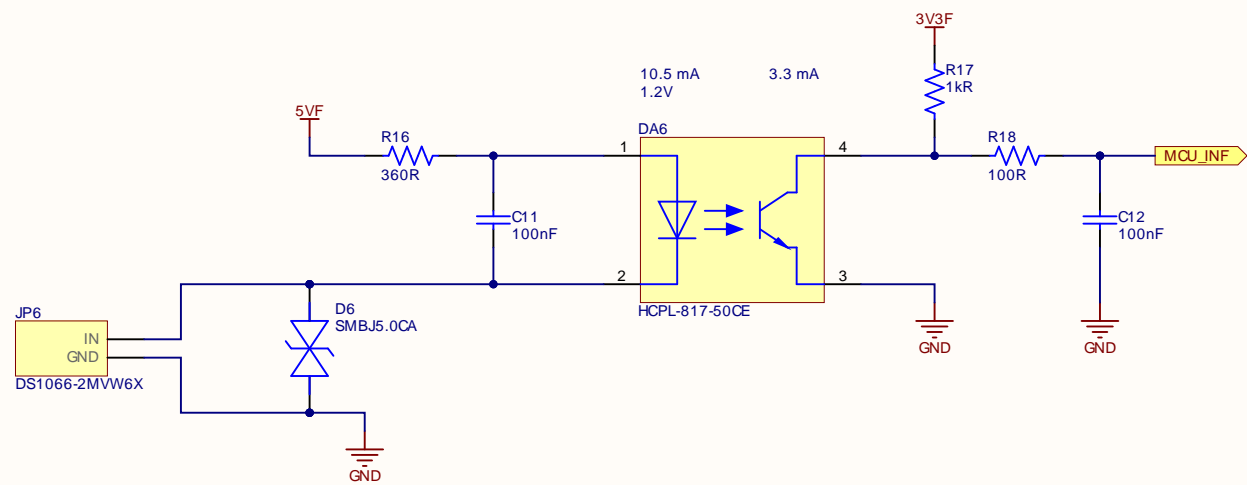
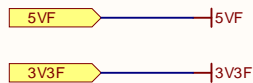


HW14
T-DS1066-SC600-N-019



HW15
T-DS1066-SC600-N-019

Title: Buttons			MRobot, LCC nab. reki Karpovki, d. 5/3/E 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: 22:55:44	Sheet 9 of 14		
File: Gastroscopy-Controller_Button.SchDoc				



ADDITIONAL PARTS




HW16
DS1066-2-FCW



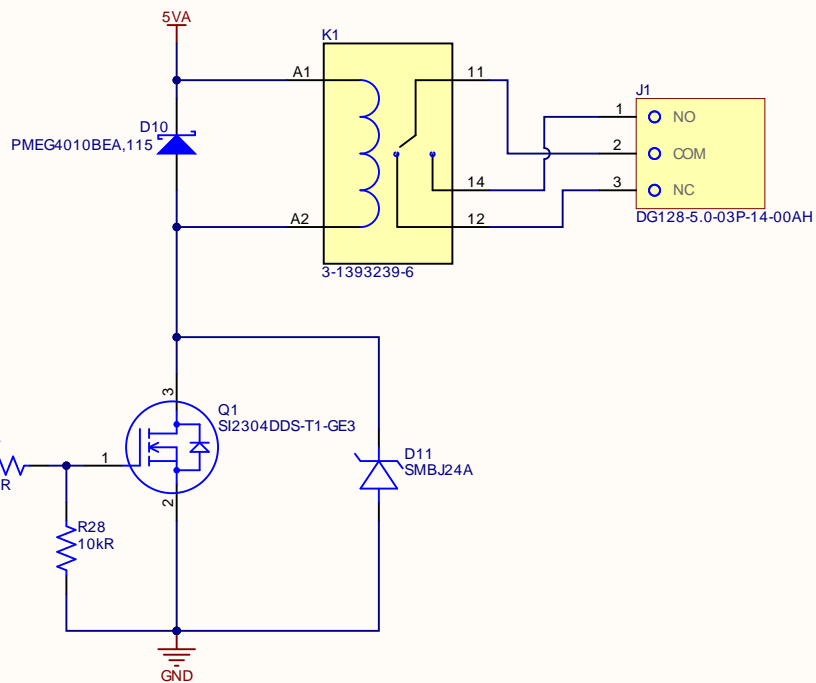
HW17
T-DS1066-SC600-N-019




HW18
T-DS1066-SC600-N-019

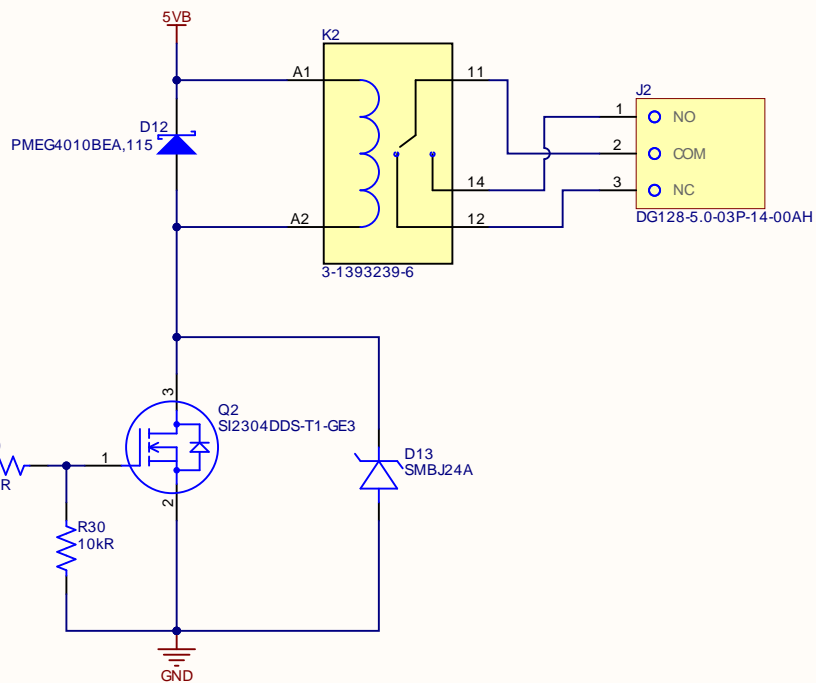
Title: Buttons			MRobot, LCC nab. reki Karpovki, d. 5/3E Saint-Petersburg, 197022 Ph: +7 (911) 701-51-99	 www.mrobots.ru
Project: Gastroscopy Controller				
Size A	Number: 0000-0000	Revision 0.1.0	Engineer: Podlesnyi Vasilii	
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File: Gastroscopy-Controller_Button.SchDoc				


5VA



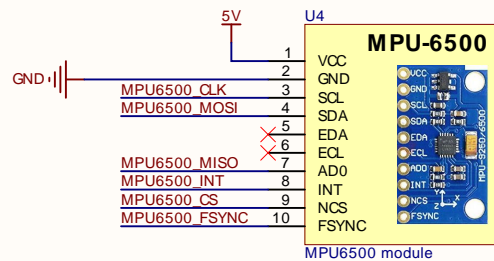
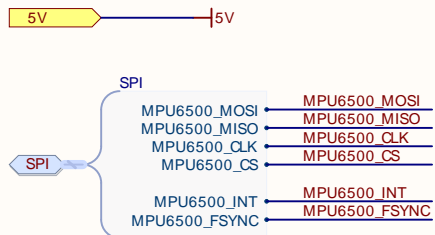
Title: Relays			MRobot, LCC nab. reki Karpovki, d. 5/3E Saint-Petersburg, 197022 Ph: +7 (911) 701-51-99	 www.mrobots.ru
Project: Gastroscopy Controller				
Size A	Number: 0000-0000	Revision 0.1.0	Engineer: Podlesnyi Vasilii	
Date: 09.11.2022	Time: 22:55:44	Sheet 11 of 14		
File: Gastroscopy-Controller_Relay.SchDoc				


5VB



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: 22:55:45	Sheet 12 of 14		
File: Gastroscopy-Controller_Relay.SchDoc				





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: Podlesnyi Vasilii	
Date: 09.11.2022	Time: 22:55:45	Sheet 14 of 14		
File: Gastroscopy-Controller MPU6500.SchDoc				