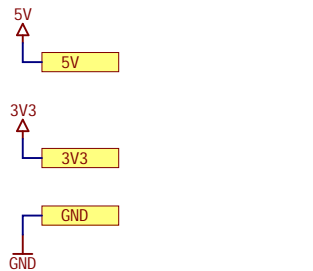
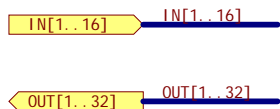


A

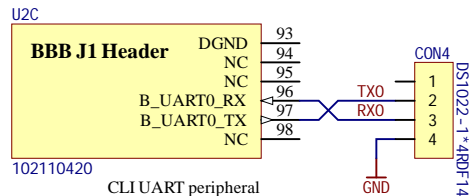
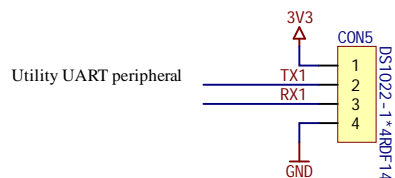


B



C

Digital power on the board comes from the BBB P9 connector (ext 5V provided via DC jack connector on the BBB).



D

Title: [sbc.SchDoc](#)

Description:

[BeagleBone Black connectors](#)Project: [BeagleNode.PrjPcb](#)Rev: [A](#)

Address:

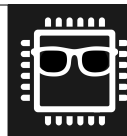
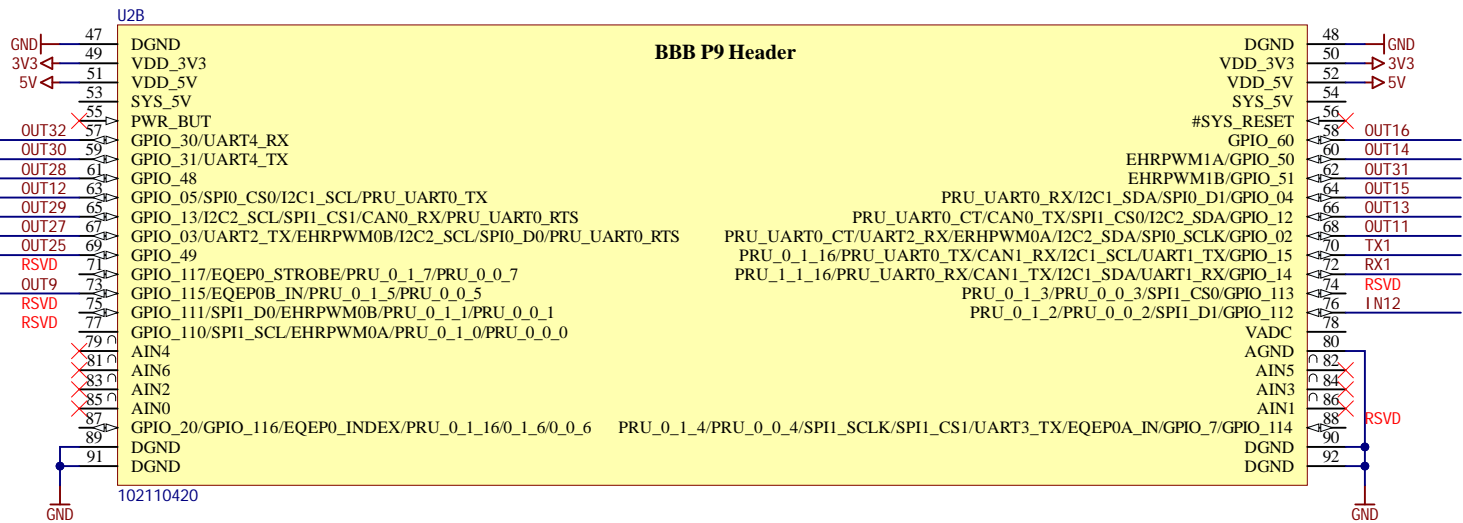
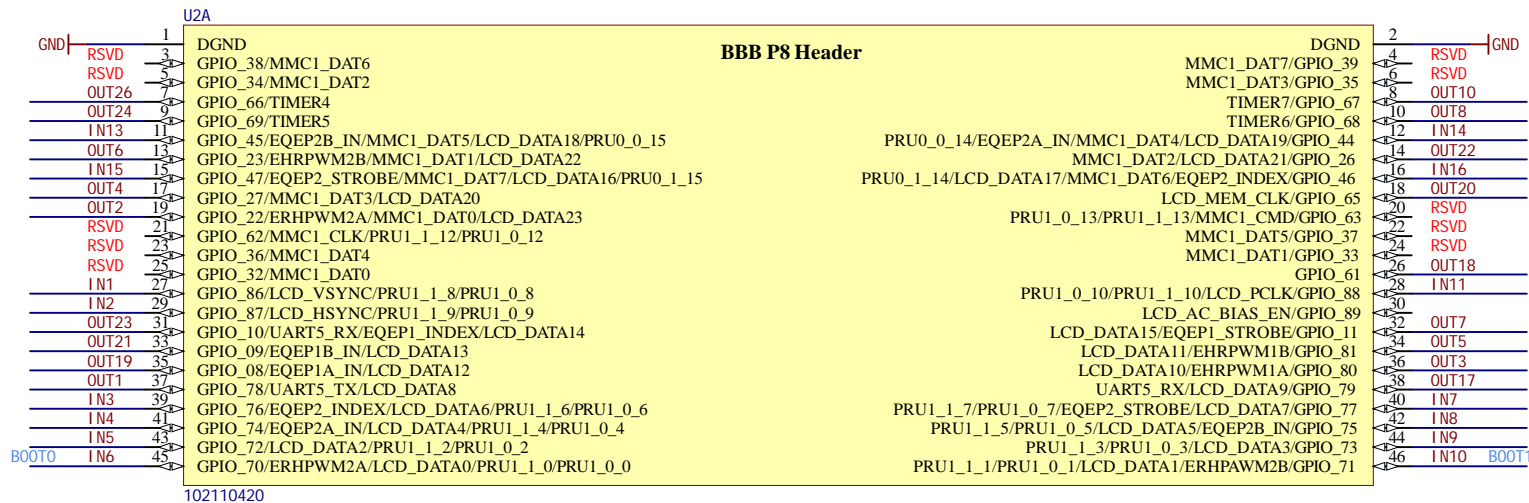
Author: [Łukasz Przeniosło](#)Contact: lukasz@przenioslo.com[Ofiar Katynia 21](#)
[72-100 Goleniów](#)
[Poland](#)Company: [Przenioslo Electronics & Software](#)Sheet [2](#) of [6](#)Created: [2023-02-11](#) Edited: [2023-10-28](#)File: [D:\storage\repo\git\github\BeagleNodeHW\sbc.SchDoc](#)

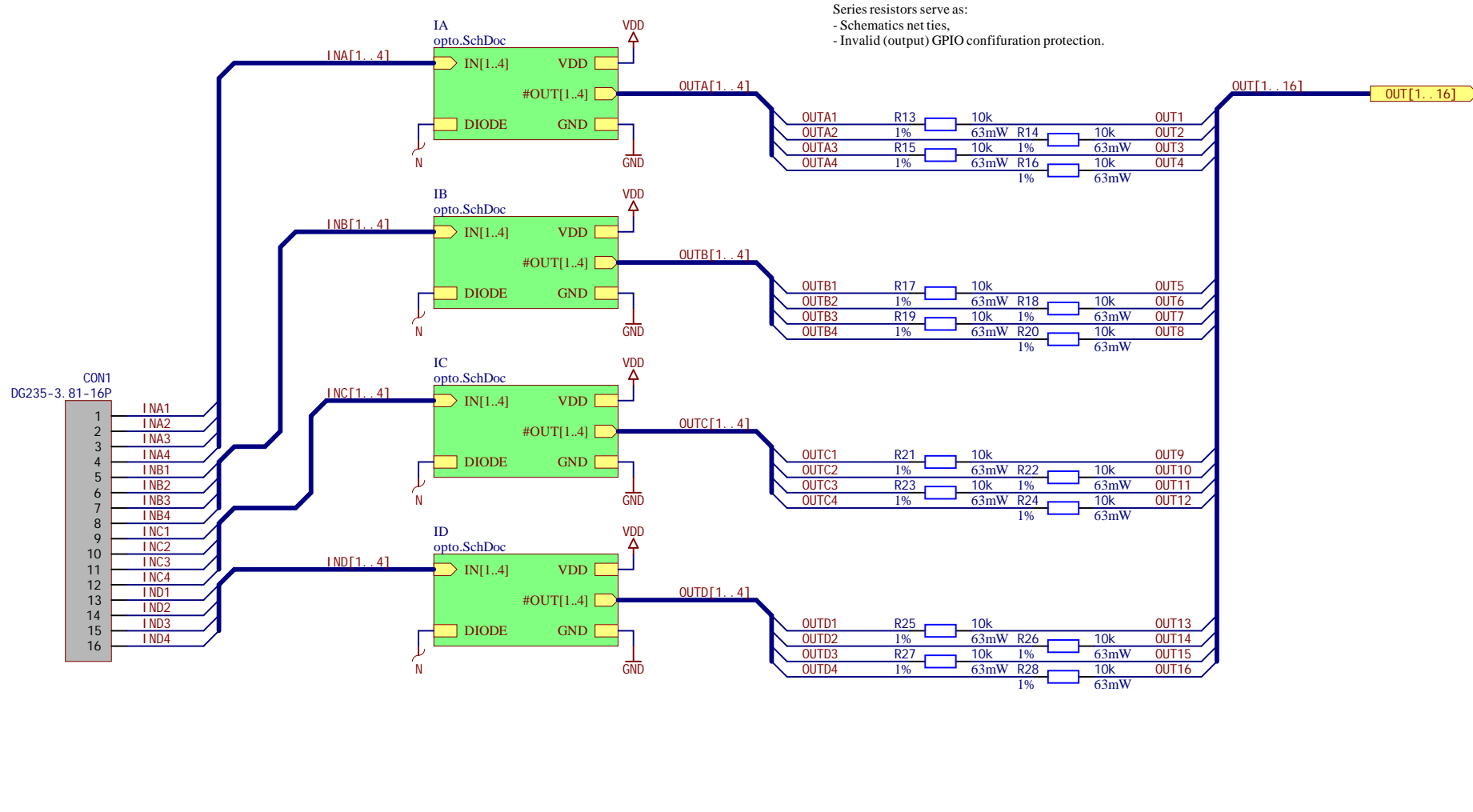
A

B

C

D





Title: input.SchDoc

Description:

230 VAC switches inputs connectors circuit

Project: BeagleNode.PrjPcb

Author: Łukasz Przeniosło

Company: Przenioslo Electronics & Software

Created: 2023-02-07 Edited: 2023-02-15

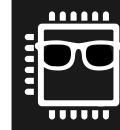
File: D:\storage\repo\git\github\BeagleNodeHW\input.SchDoc

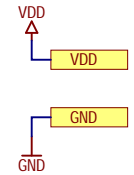
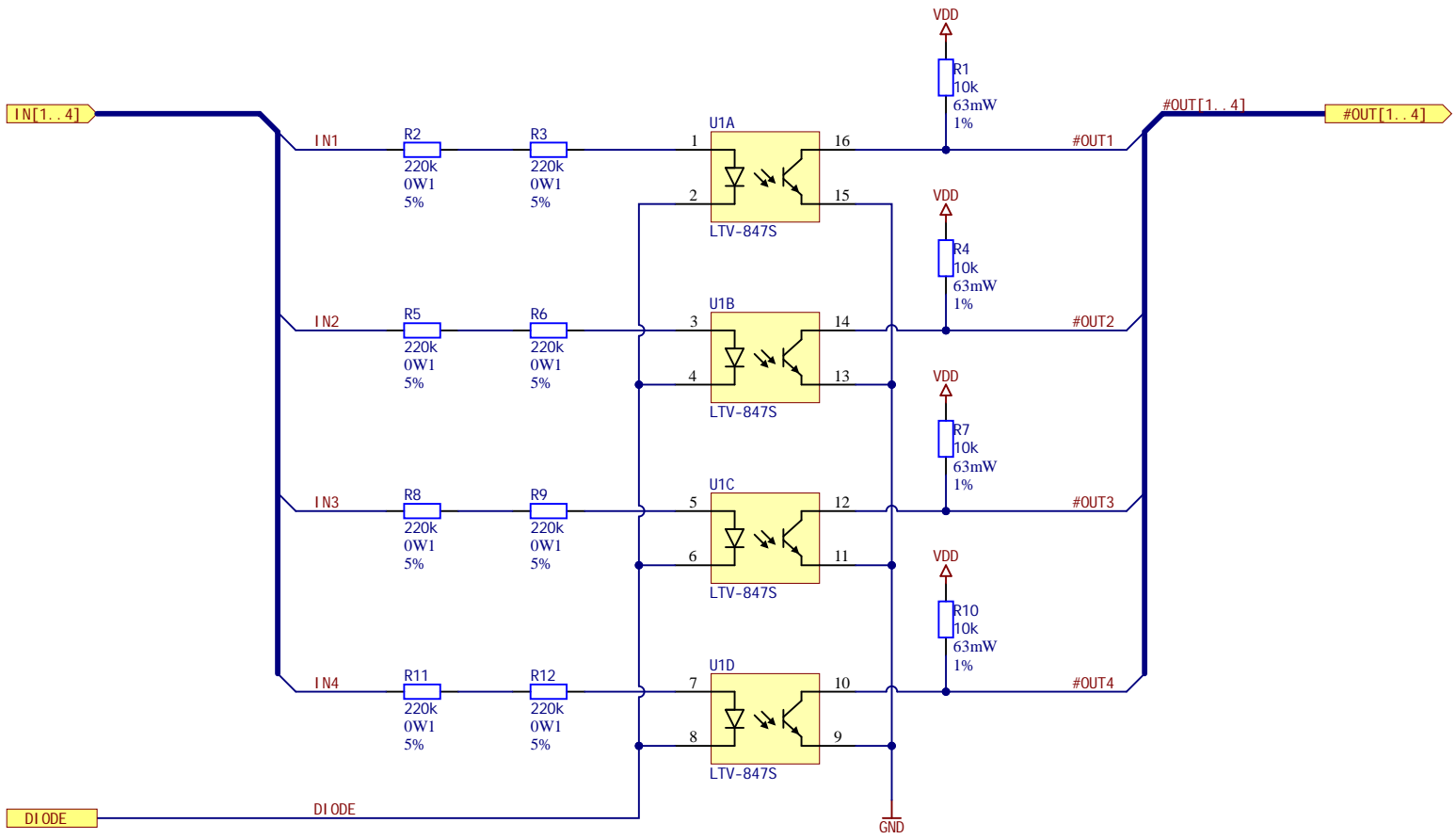
Contact: lukasz@przenioslo.com


Sheet 3 of 6

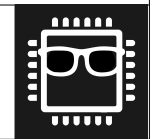
Rev: A

Address:

Ofiar Katynia 21
72-100 Goleniów
Poland



Title: <code>opto.SchDoc</code>		Project: <code>BeagleNode.PrjPcb</code>			Rev: <code>A</code>	Address:			
Description: <code>High voltage quad opto isolation circuit</code>		Author: <code>Łukasz Przeniosło</code>		Contact: <code>lukasz@przenioslo.com</code>		<code>Ofiar Katynia 21</code> <code>72-100 Goleniów</code> <code>Poland</code>			
		Company: <code>Przenioslo Electronics & Software</code>			<code>Sheet 4</code> of <code>6</code>				
		Created: <code>20xx-xx-xx</code> Edited: <code>2023-02-15</code>							
		File: <code>D:\storage\repo\git\github\BeagleNodeHW\opto.SchDoc</code>							



A

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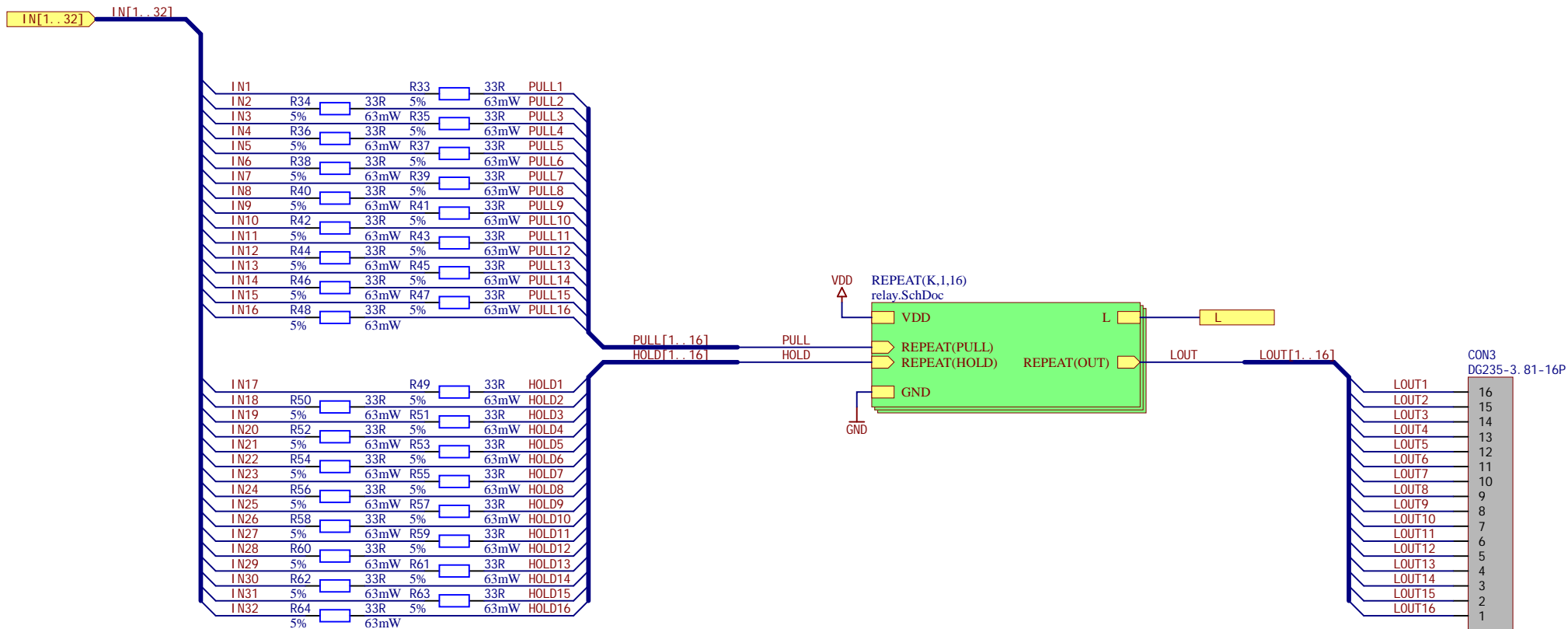
D

A

B

C

D



Title: output.SchDoc

Description:

230 VAC outputs connector circuit

Project: BeagleNode.PrjPcb

Rev: A

Address:

Author: Łukasz Przeniosło

Contact: lukasz@przenioslo.com

Ofiar Katynia 21
72-100 Goleniów
Poland

Company: Przenioslo Electronics & Software

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Created: 2023-02-11 Edited: 2023-02-15

File: D:\storage\repo\git\github\BeagleNodeHW\output.SchDoc

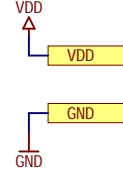
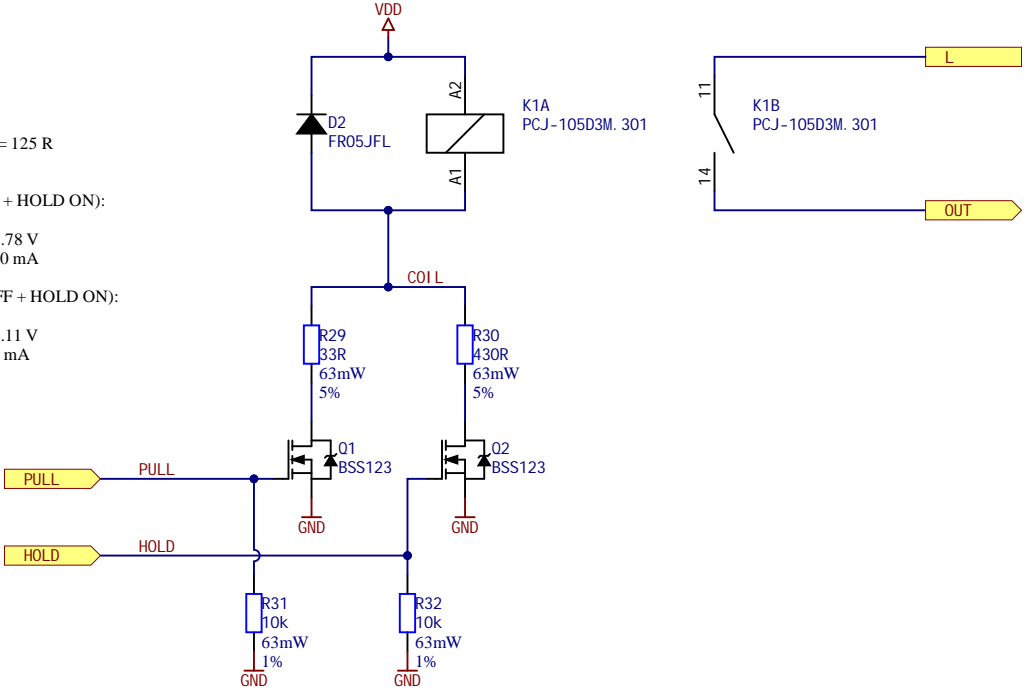
Coil resistance = 125 R
R_DSON = 5 R


Pull (PULL ON + HOLD ON):

Coil voltage = 3.78 V
Coil current = 30 mA

Hold (PULL OFF + HOLD ON):

Coil voltage = 1.11 V
Coil current = 9 mA



Title: relay.SchDoc	Project: BeagleNode.PrjPcb		Rev: A	Address: Ofiar Katynia 21 72-100 Goleniów Poland	
Description: 230 VAC output relay control circuit	Author: Łukasz Przeniosło	Contact: lukasz@przenioslo.com			
	Company: Przenioslo Electronics & Software		Sheet 6 of 6		
	Created: 2023-02-10 Edited: 2023-10-28				
	File: D:\storage\repo\git\github\BeagleNodeHW\relay.SchDoc				