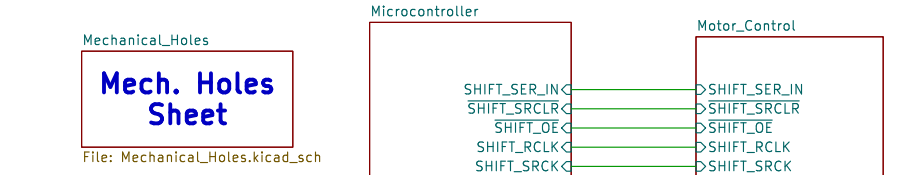
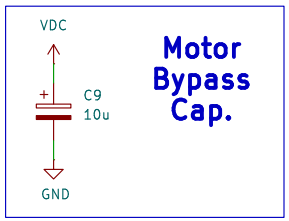
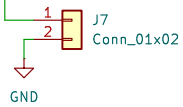
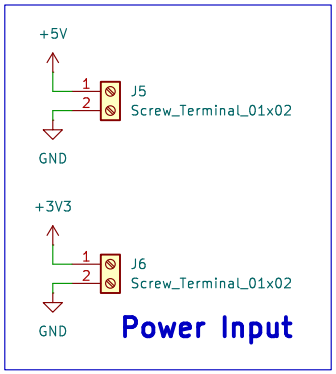
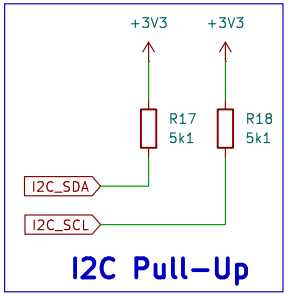
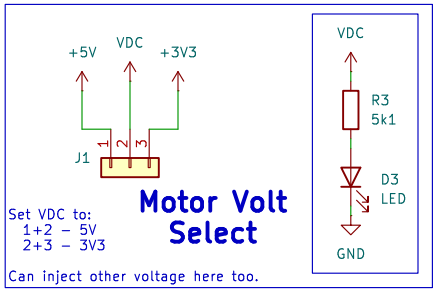








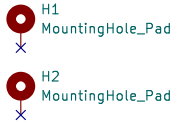




Sheet: /
File: Braille-Column-Rods-PCB.kicad_sch

Title: Braille Cam Rod Prototype (Type 4)

Size: USLetter	Date: 2025-01-06	**Rev: Rev 1**
KiCad E.D.A. 8.0.7		Id: 1/16



Each symbol/footprint
has 3x holes.

Footprint: Braille_Block_MountingHoles_M2_3x

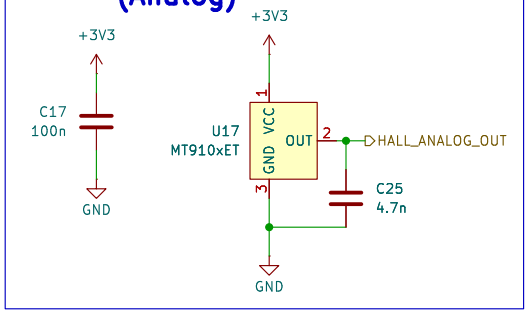
Housing Mounting Holes (M2, 3-in-a-row)

Sheet: /Mechanical_Holes/
File: Mechanical_Holes.kicad_sch

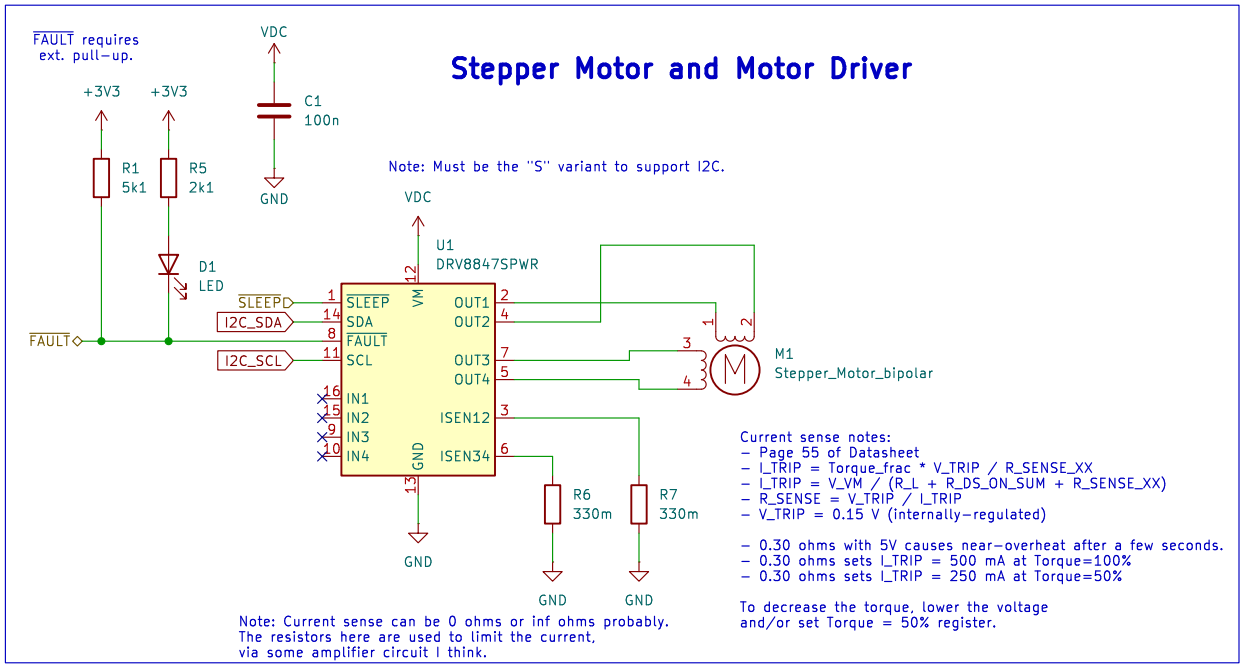
Title: Braille Cam Rod Prototype (Type 4)

Size: USLetter	Date: 2025-01-06	**Rev: Rev 1**
KiCad E.D.A. 8.0.7		Id: 2/16

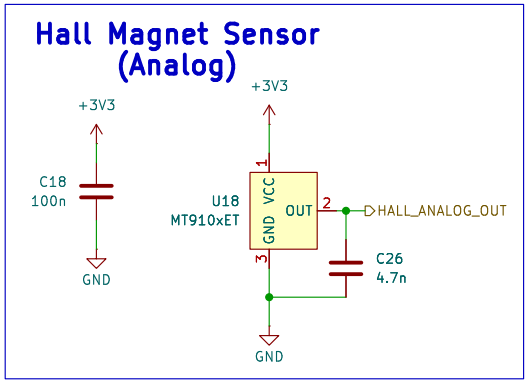
Hall Magnet Sensor (Analog)

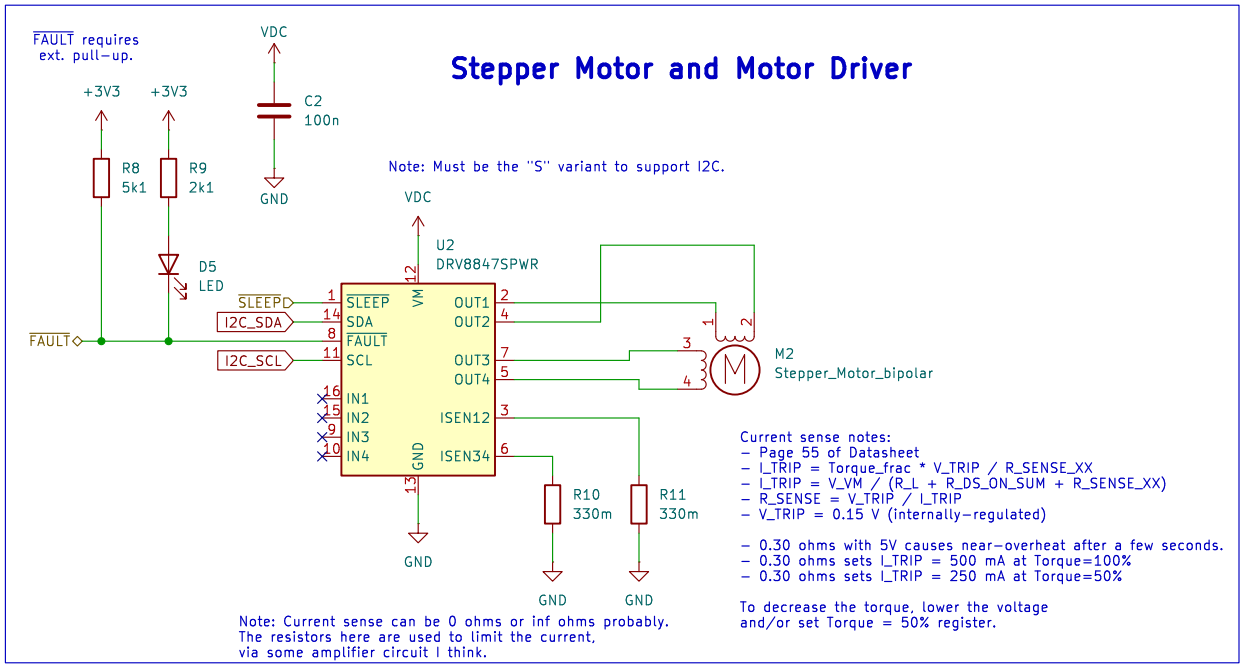


Stepper Motor and Motor Driver



Sheet: /Motor_Control/Braille_Cell_Column/	
File: Braille_Cell_Column.kicad_sch	
Title: Braille Cam Rod Prototype (Type 4)	
Size: USLetter | Date: 2025-01-06	**Rev: Rev 1**
KiCad E.D.A. 8.0.7	Id: 3/16



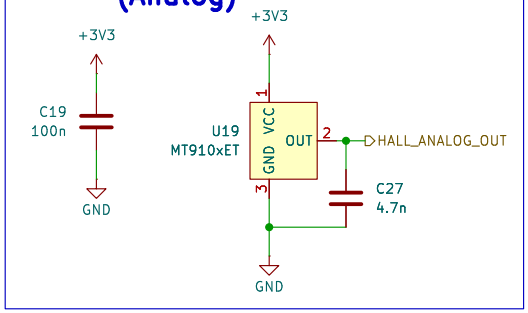


Sheet: /Motor_Control/Braille_Cell_Column1/
File: Braille_Cell_Column.kicad_sch

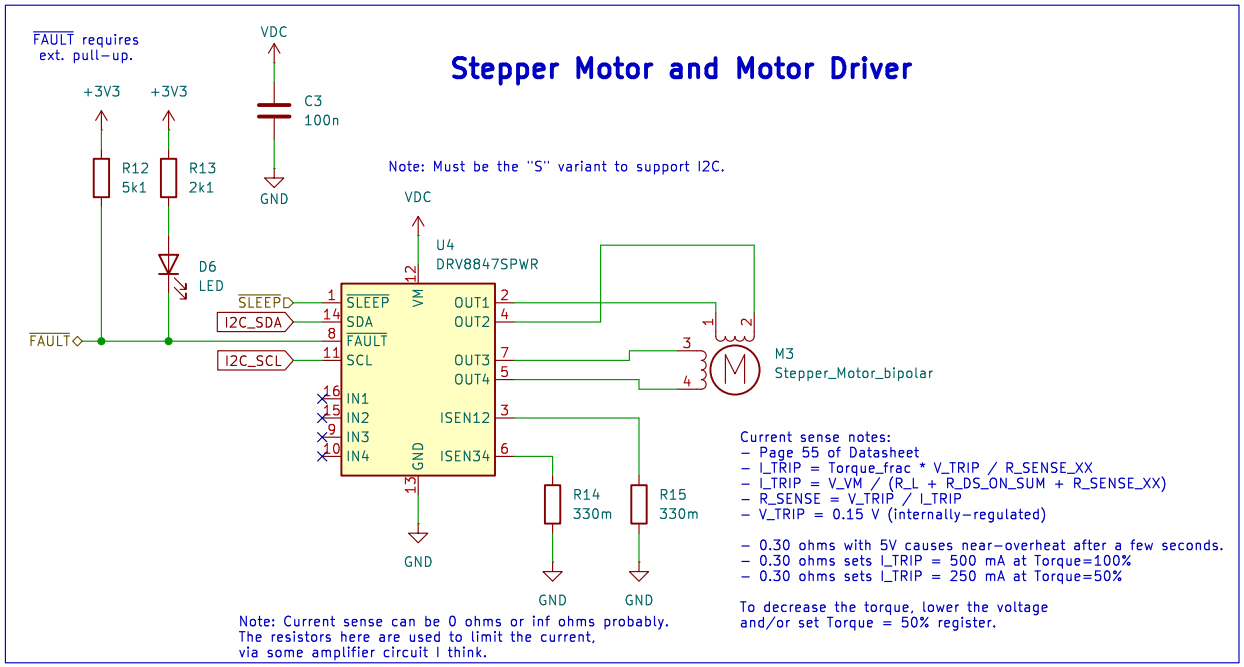
Title: Braille Cam Rod Prototype (Type 4)

Size: USLetter	Date: 2025-01-06	**Rev: Rev 1**
KiCad E.D.A. 8.0.7		Id: 4/16

Hall Magnet Sensor (Analog)

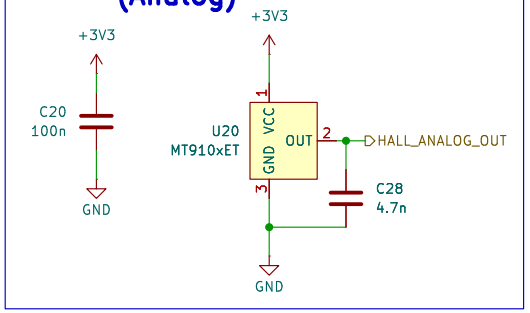


Stepper Motor and Motor Driver

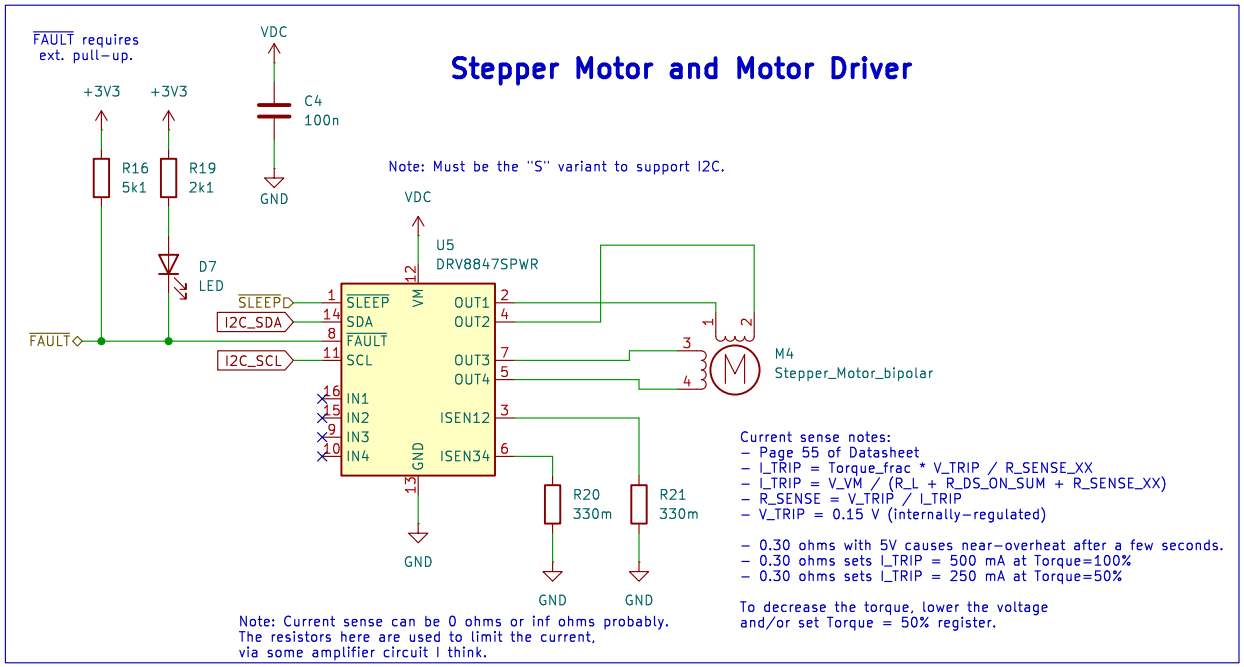


Sheet: /Motor_Control/Braille_Cell_Column2/	
File: Braille_Cell_Column.kicad_sch	
Title: Braille Cam Rod Prototype (Type 4)	
Size: USLetter | Date: 2025-01-06	**Rev: Rev 1**
KiCad E.D.A. 8.0.7	Id: 5/16

Hall Magnet Sensor (Analog)



Stepper Motor and Motor Driver



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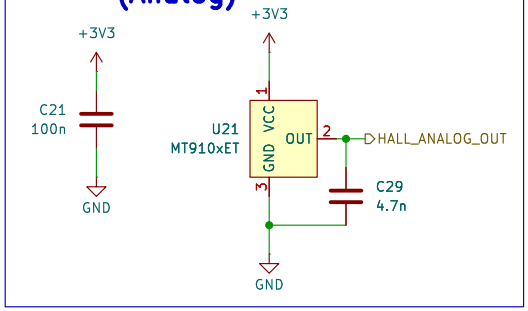
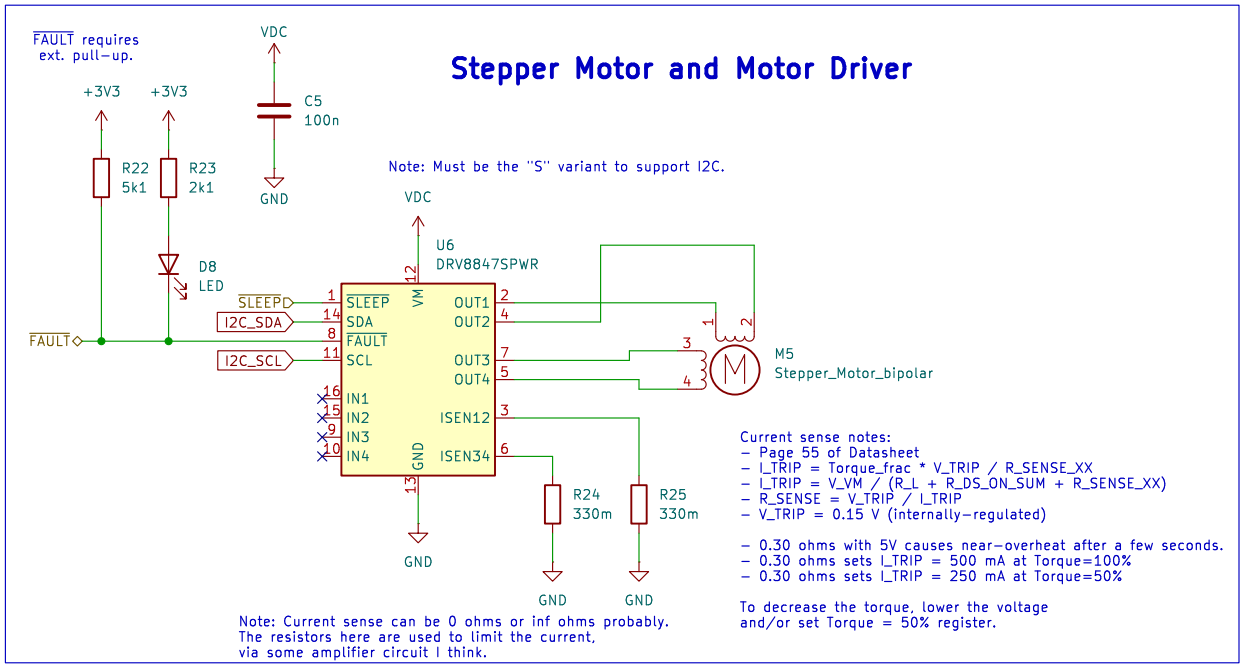
File: Braille_Cell_Column.kicad_sch	
Title: Braille Cam Rod Prototype (Type 4)	
Size: USLetter | Date: 2025-01-06	**Rev: Rev 1**
KiCad E.D.A. 8.0.7	Id: 6/16

Hall Magnet Sensor (Analog)



Stepper Motor and Motor Driver



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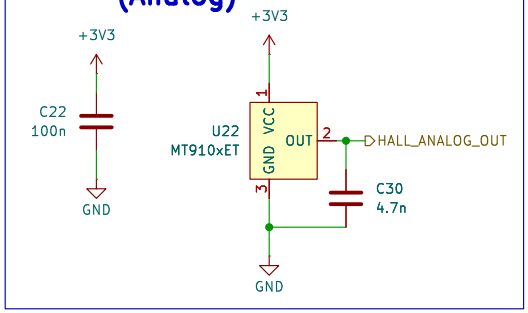
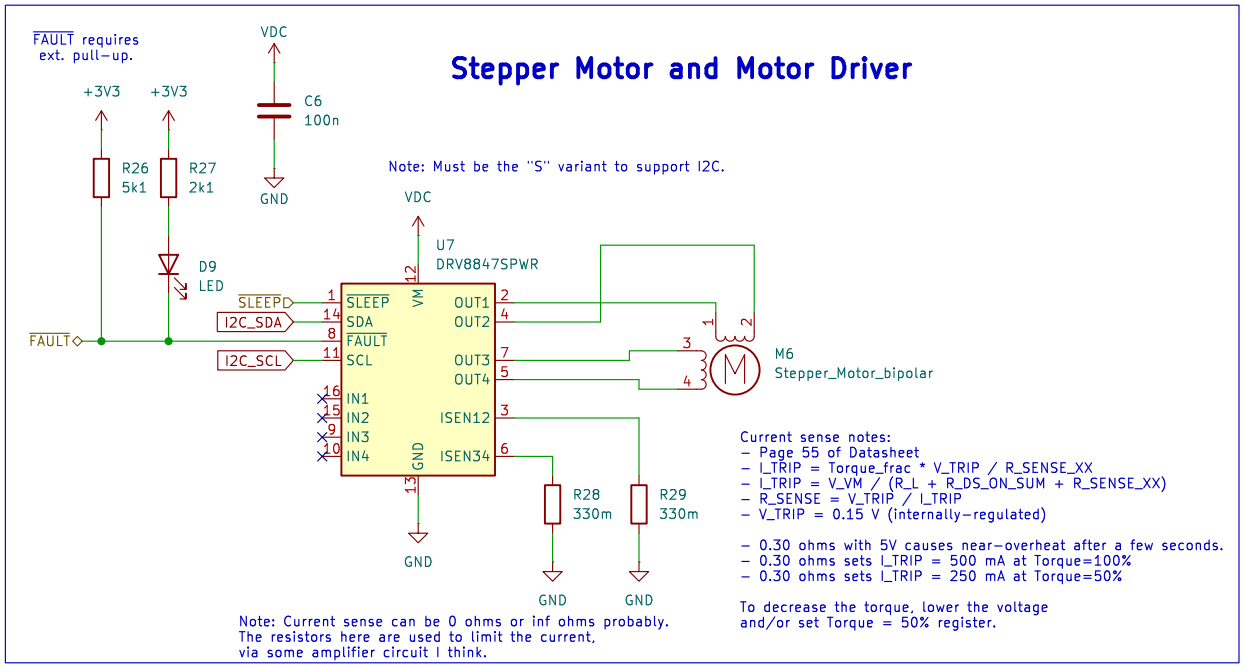
Title: Braille Cam Rod Prototype (Type 4)	
Size: USLetter | Date: 2025-01-06	**Rev: Rev 1**
KiCad E.D.A. 8.0.7	Id: 7/16

Hall Magnet Sensor (Analog)

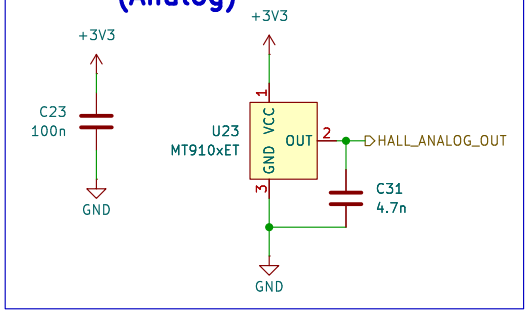


Stepper Motor and Motor Driver

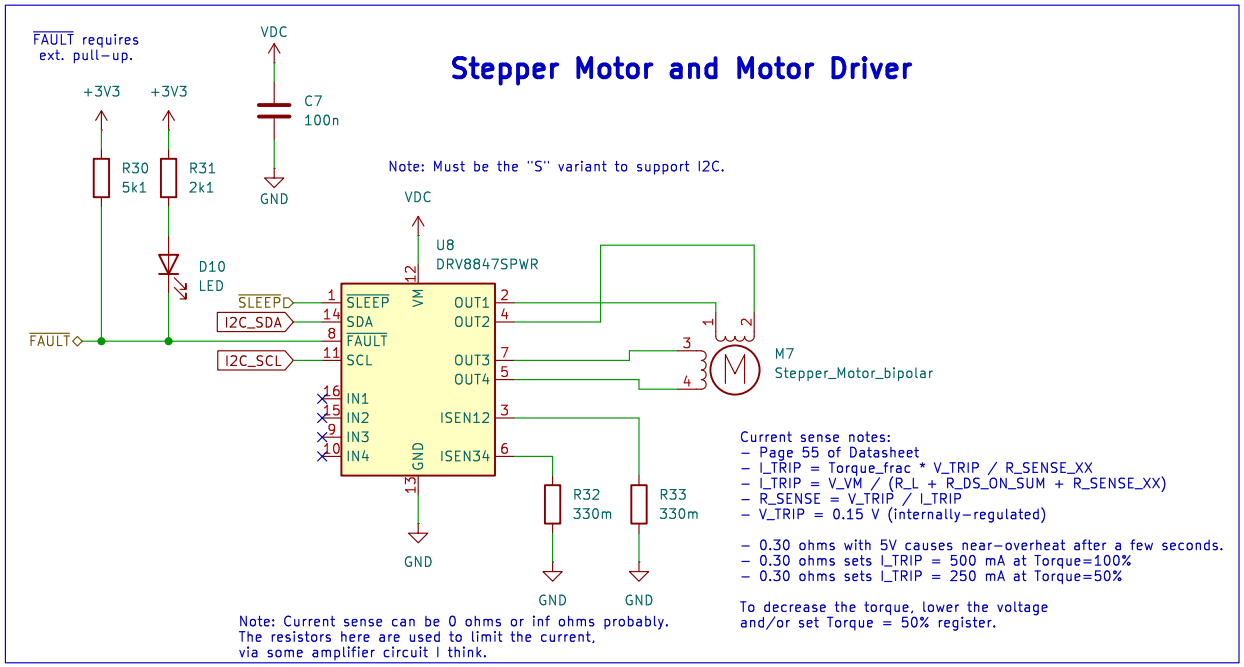


Sheet: /Motor_Control/Braille_Cell_Column5/	
File: Braille_Cell_Column.kicad_sch	
Title: Braille Cam Rod Prototype (Type 4)	
Size: USLetter | Date: 2025-01-06	**Rev: Rev 1**
KiCad E.D.A. 8.0.7	Id: 8/16

Hall Magnet Sensor (Analog)

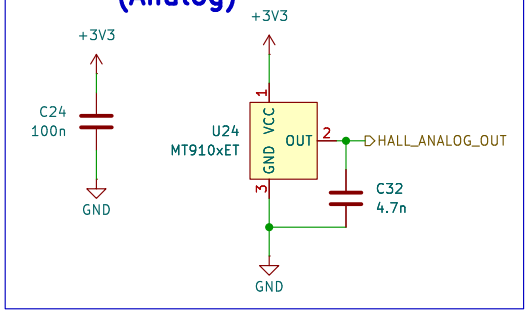


Stepper Motor and Motor Driver

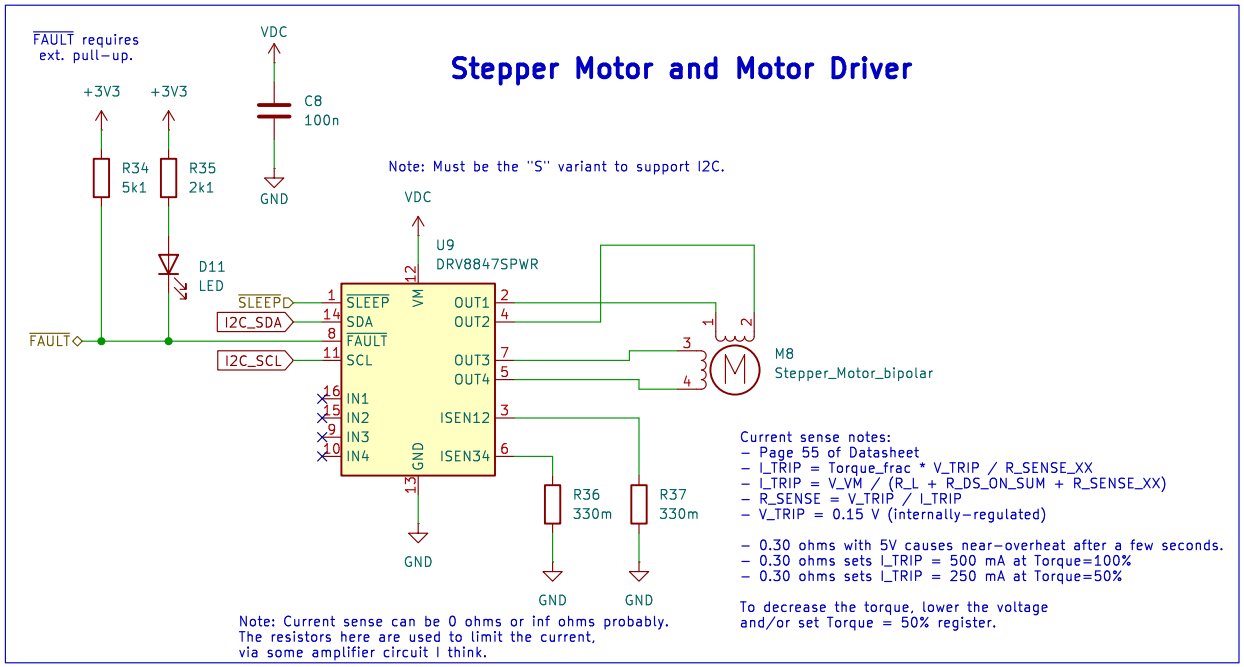


Sheet: /Motor_Control/Braille_Cell_Column6/	
File: Braille_Cell_Column.kicad_sch	
Title: Braille Cam Rod Prototype (Type 4)	
Size: USLetter | Date: 2025-01-06	**Rev: Rev 1**
KiCad E.D.A. 8.0.7	Id: 9/16

Hall Magnet Sensor (Analog)



Stepper Motor and Motor Driver



Sheet: /Motor_Control/Braille_Cell_Column7/	
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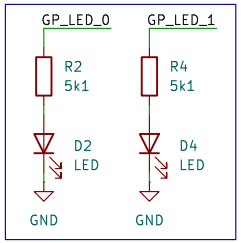
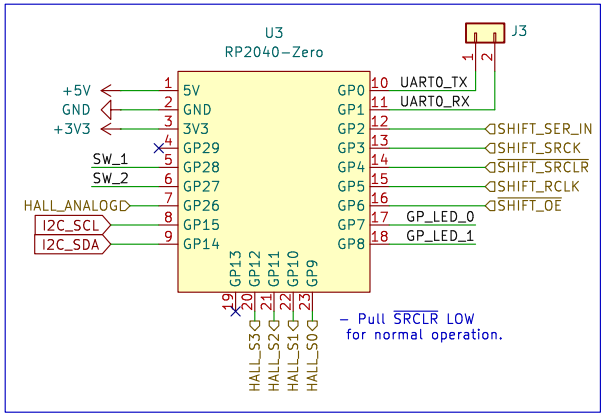
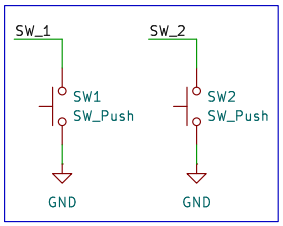
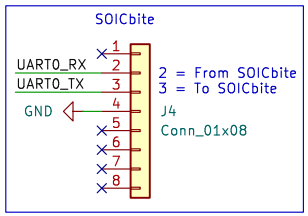
Title: Braille Cam Rod Prototype (Type 4)	
Size: USLetter | Date: 2025-01-06	**Rev: Rev 1**
KiCad E.D.A. 8.0.7	Id: 10/16







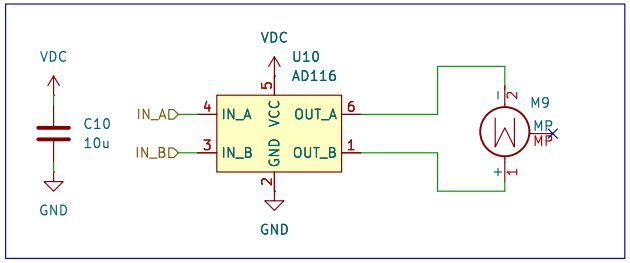


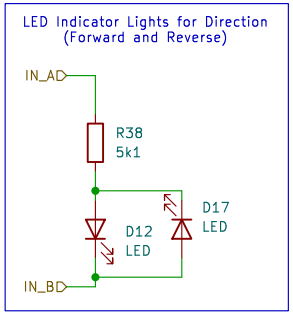
Sheet: /Microcontroller/
File: Microcontroller.kicad_sch

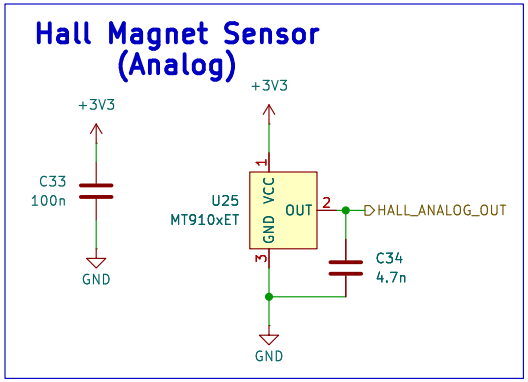
Title: Braille Cam Rod Prototype (Type 4)

Size: USLetter	Date: 2025-01-06	**Rev: Rev 1**
KiCad E.D.A. 8.0.7		Id: 11/16

Motor: https://www.aliexpress.com/item/1005008297964764.html
6mm OD 270 RPM Planetary Gear Motor

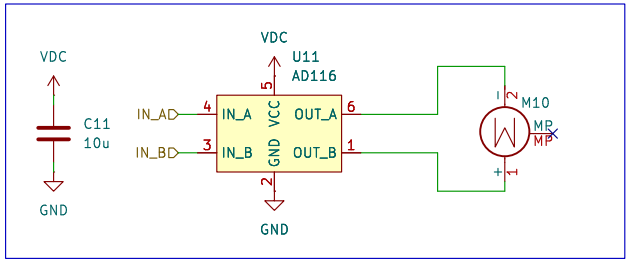


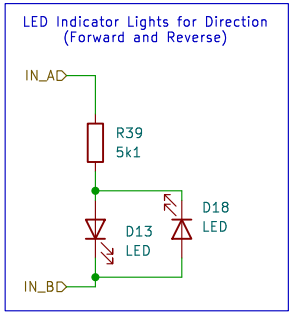


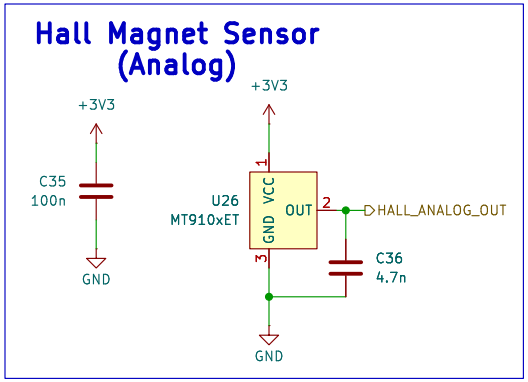


Sheet: /Motor_Control/Corner_DC_Motor/		
File: Corner_DC_Motor.kicad_sch		
Title: Braille Cam Rod Prototype (Type 4)		
Size: USLetter	Date: 2025-01-06	**Rev: Rev 1**
KiCad E.D.A. 8.0.7		Id: 12/16

Motor: https://www.aliexpress.com/item/1005008297964764.html
6mm OD 270 RPM Planetary Gear Motor

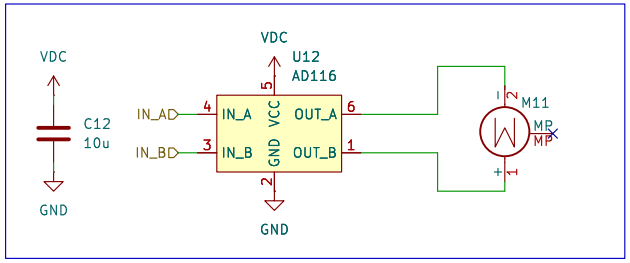


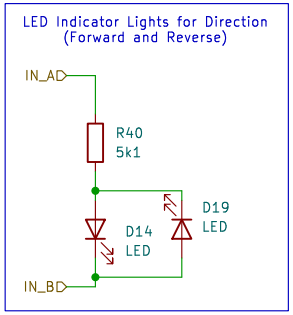


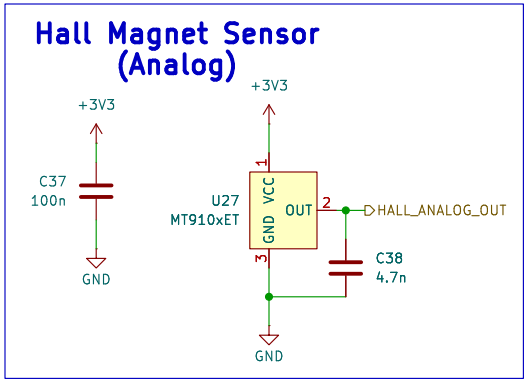


Sheet: /Motor_Control/Corner_DC_Motor1/		
File: Corner_DC_Motor.kicad_sch		
Title: Braille Cam Rod Prototype (Type 4)		
Size: USLetter	Date: 2025-01-06	**Rev: Rev 1**
KiCad E.D.A. 8.0.7		Id: 13/16

Motor: https://www.aliexpress.com/item/1005008297964764.html
6mm OD 270 RPM Planetary Gear Motor

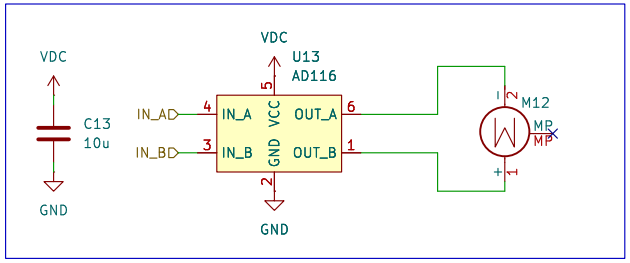


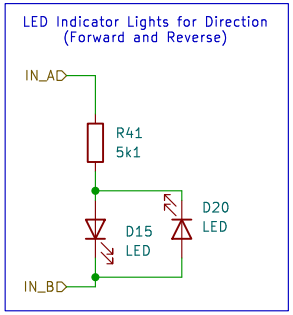


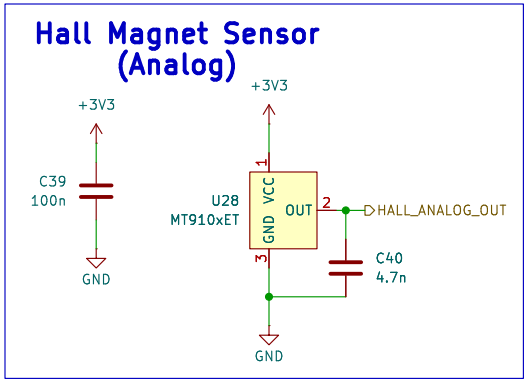


Sheet: /Motor_Control/Corner_DC_Motor2/		
File: Corner_DC_Motor.kicad_sch		
Title: Braille Cam Rod Prototype (Type 4)		
Size: USLetter	Date: 2025-01-06	**Rev: Rev 1**
KiCad E.D.A. 8.0.7		Id: 14/16

Motor: https://www.aliexpress.com/item/1005008297964764.html
6mm OD 270 RPM Planetary Gear Motor



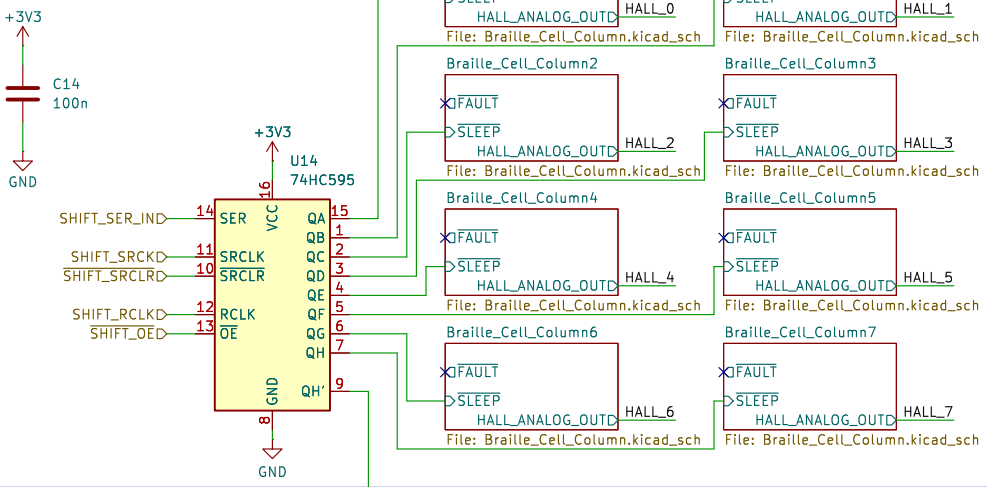




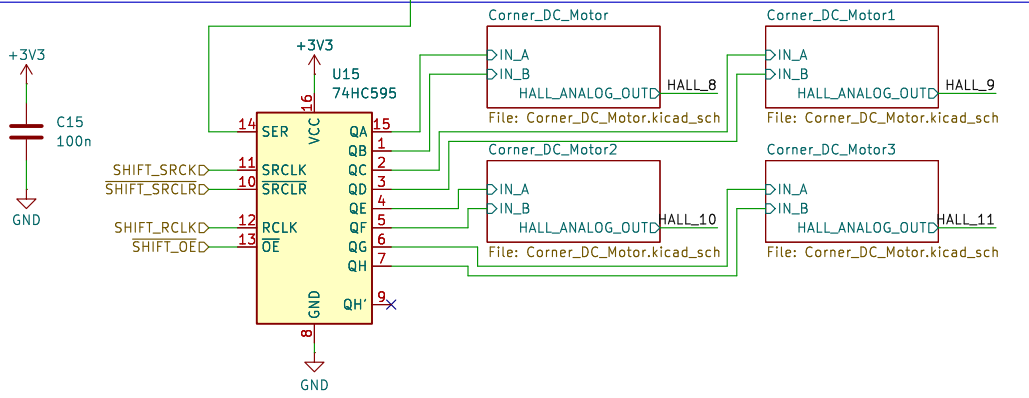
Sheet: /Motor_Control/Corner_DC_Motor3/		
File: Corner_DC_Motor.kicad_sch		
Title: Braille Cam Rod Prototype (Type 4)		
Size: USLetter	Date: 2025-01-06	**Rev: Rev 1**
KiCad E.D.A. 8.0.7		Id: 15/16

TODO: Could save power by switching off the hall effect sensors and mux.

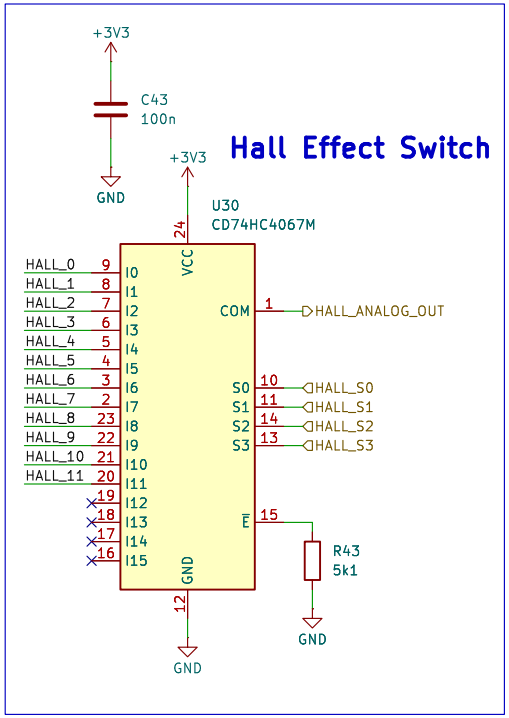
Braille Column Rods Motors



DC Corner Motors



Hall Effect Switch



Sheet: /Motor_Control/	
File: Motor_Control.kicad_sch	
Title: Braille Cam Rod Prototype (Type 4)	
Size: USLetter | Date: 2025-01-06	**Rev: Rev 1**
KiCad E.D.A. 8.0.7	Id: 16/16