

This is the Revision A version of the TwinGearSensorRight RoboBrick. The status of this project is work in progress.

TwinGearSensorRight Robobrick (Revision A)

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1. Introduction

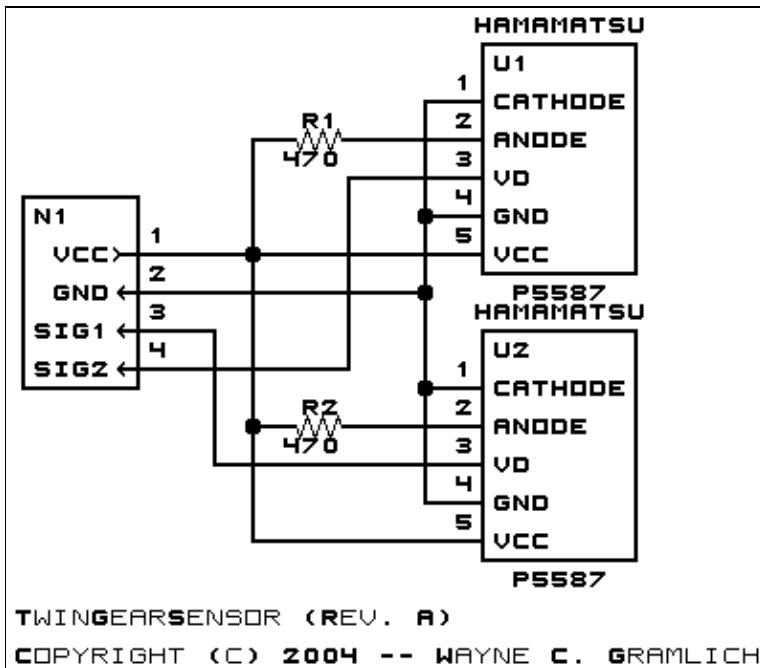
The TwinGearSensorRight board is designed to pick up a quadrature signal from a shaft using two Hamamatsu P5507 chips.

2. Hardware

The hardware consists of a circuit schematic and a printed circuit board.

2.1 Circuit Schematic

The schematic for the TwinGearSensorRight RoboBrick is shown below:



The parts list kept in a separate file -- [twingearsensorright.ptl](#).

2.2 Printed Circuit Board

The printed circuit board files are listed below:

[twingearsensorright_back.png](#)

The solder side layer.

[twingearsensorright_front.png](#)

The component side layer.

[twingearsensorright_artwork.png](#)

The artwork layer.

[twingearsensorright.gbl](#)

The RS-272X "Gerber" back (solder side) layer.

[twingearsensorright.gtl](#)

The RS-272X "Gerber" top (component side) layer.

[twingearsensorright.gal](#)

The RS-272X "Gerber" artwork layer.

[twingearsensorright.drl](#)

The "Excellon" NC drill file.

[twingearsensorright.tol](#)

The "Excellon" tool rack file.

3. Issues

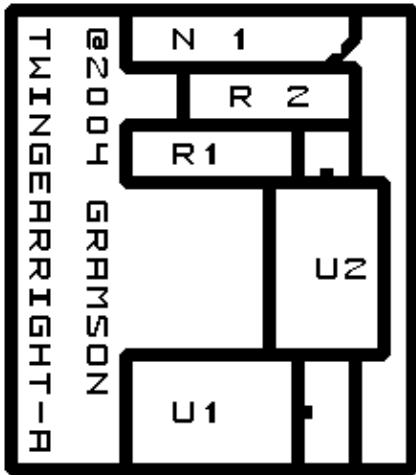
Any fabrication issues that come up are listed here.

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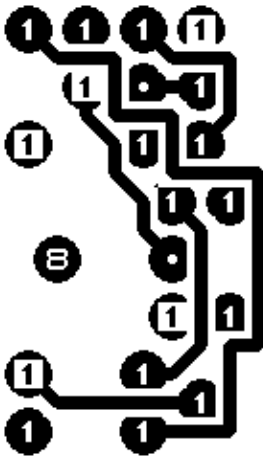
A. Appendix A: Parts List

```
# Parts list for TwinGearSensor (Rev. A)
#
N1: Header1x4.TwinGearSensor [4/40 Jameco: 160881]
R1-2: Resistor470.Short - 470 Ohm 1/8 Watt Resistor [Digikey: 470EBK-ND]
U1-2: P5587.Long - Hamamatsu Photoreflector [Acroname: R65-P5587]
```

B. Appendix B: Artwork Layer



C. Appendix C: Back (Solder Side) Layer



D. Appendix D: Front (Component Side) Layer

