

Circuits and Connections for an Example Laser Guitar (examples/guitar.py)

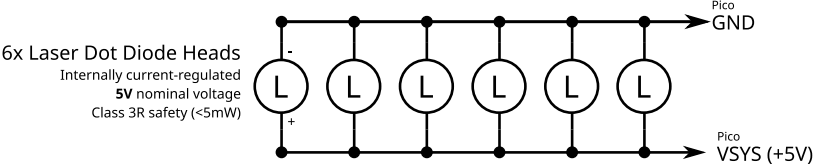
Diagrams created by Scott Feister on March 2, 2025 for the middle school Laser Harp project.

This guitar has six strings and four chord buttons.

Laser Power Circuit

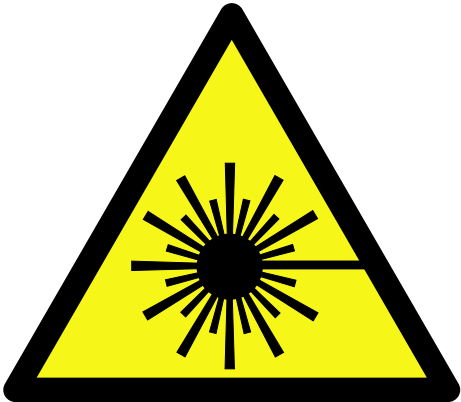
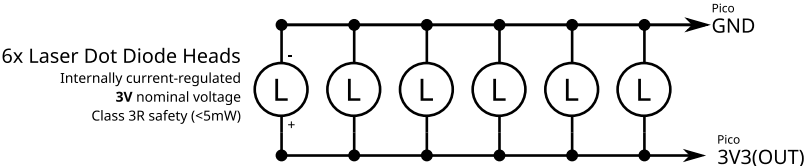
Option 1: using 5V lasers

This circuit powers on the lasers using the Pico's 5V output..



Option 2: using 3V lasers

This circuit powers on the lasers using the Pico's 3.3V output..

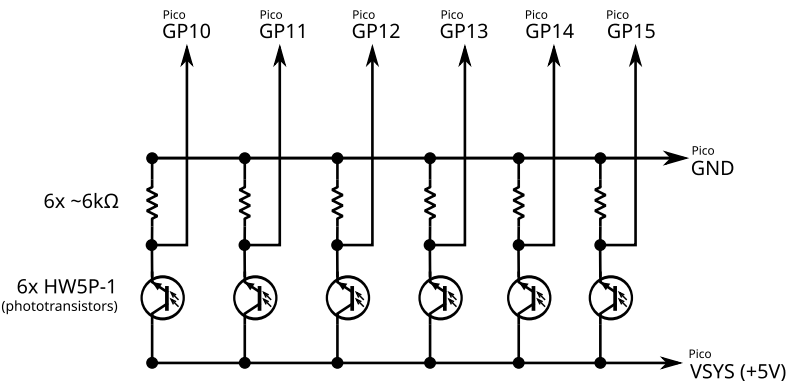


**LASER RADIATION**

Adult Supervision Required  
Read Laser Safety Guide  
Before Proceeding!

Phototransistors Circuit

This circuit converts phototransistor resistance into a measurable voltage.  
Phototransistor's effective resistance changes depending on incident light.



Chord Buttons Circuit

This circuit connects the five chord buttons to the Pico.

