



MachTach Gear Tooth Sensor Housing



Plexi

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Summary

This housing retains a MachTach Gear Tooth Sensor and cable making it easy to mount the sensor on your machine tool....

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This housing retains a MachTach Gear Tooth Sensor and cable making it easy to mount the sensor on your machine tool. This sensor allows the MachTach to measure the speed of a machine by monitoring a gear with up to 90 teeth. The MachTach is a machine tachometer that displays speed in RPMs, Surface Feet Per Minute and Surface Meters Per Minute. You may use this sensor with MachTach or other tachometers. This sensor requires a pull up resistor which is built into the MachTach. If you use another tachometer, you may have to add the pull up resistor to this PCB. The sensor can be mounted facing inline with the housing or perpendicular so that you can mount the house in the same plane as the gear you are sensing or perpendicular to the gear.

<https://www.thingiverse.com/thing:3352007>

for more information

I've included the PCB design file which can be manufactured at <http://www.expresspcb.com>

The cost is \$75 for 75 boards. Yes 75! That's not a typo. This board is so small they can only economically make them with 25 to a board and the minimum order is 3 boards for \$75.

I just added a printed covers which can be glued in place to seal the housing. One style is for the vertical mount and the other is for the horizontal sensor mount.

Print Settings

Printer Brand:

RepRap

Printer:

Prusa i3

Rafts:

No

Supports:

No

Resolution:

0.1mm

Infill:

50%

Notes:

PLA

Extruder 200C

Bed w/ Kapton 55C

Category: Machine Tools

Model files



geartoothsensorhousingrightanglev6.stl



geartoothsensorhousingcoversv2.stl

[Find source .stl files on Thingiverse.com](https://www.thingiverse.com/thing/1111111)

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