Hobby Gearmotor - 200 RPM (Pair)

DESCRIPTION

- Suggested Voltage: 4.5VDC
- No Load Speed: 140RPM
- No Load Current: 190mA
- Max. Load Current: 250mA
- Torque: 800 gf-cm

FEATURES

Light-Seeking Robot

NOVEMBER 28, 2017

We use parts from the SparkFun Inventor's Kit v4.0 to create a light-seeking robot that mimics the behavior of single-celled organisms.
that stick out of the sides. The top one is a long and skinny metal shaft and the other two look like plastic. My question is, do they all spin?

husmith / about a year ago / 2

Yes they all spin. The skinny metal shaft is typically used to add a wheel encoder. The wheel encoder allows you to determine how far you wheel has turned. This metal shaft turns at the same rate as the motor and is not effected by the gears. For this motor for every turn of the wheel (the plastic shaft) the metal shaft will turn 48 times (since its 48:1 gear box).

The other two plastic shafts are to attach a wheel. I only use one of these shafts to attach one wheel. The other plastic shaft goes unused in my robot.

Member #252418 / about 3 years ago / 2

800 gf-cm is 0.078 Nm is 11 oz-in.

JasonDorie / about 2 years ago / 1

What's the backlash like on these motors? Would it be small enough for a balance bot?

Member #705169 / about 3 years ago / 1

How would i go about mounting this to anything?

BBB / about 3 years ago / 1

These were definitely not designed for ease of use. There are two through holes where the motor mounts to the transmission. I think they are 3mm. There is also a small tab at the center front of the gearbox with a hole. You need to use bolts or sometimes I just use 3/32 pop rivets if I am not planning to remove them. I can speak from experience that the gearboxes are made from some sort of high molecular weight plastic (I'm guessing polypropylene or polyethylene) and no glue will stick to them—I've tried pretty much all the choices. VHB tape might work for temporary installation.

dbc / about 3 years ago / 1

Hurrah! Tail shaft! Thank you for enabling encoders. What is the diameter of the tail shaft?

Member #458825 / about 3 years ago / 1

Can these go forwards and backwards?

Troy Lavigne / about 3 years ago / 1

Yes.

Troy Lavigne / about 3 years ago / 1

Do they come pre-wired to connect to the RedBot mainboard?

The photo's don't show the wires....

ubuntuguru / about 3 years ago / 1

You need to solder on the wires

Member #682714 / about 3 years ago / 0

What wheels can be used with these?
2,000 open source components and widgets, SparkFun offers curriculum, training and online tutorials designed to help demystify the wonderful world of embedded electronics. We're here to help you start something.