

# PM20L-20-14 50g-cm Unipolar Stepper



## Product Description

This motor is good for turning small knobs, buttons, etc.

## Motor Controller and Connection

The 3316 stepper motor connects to:

- 1062 – PhidgetStepper Unipolar 4-Motor
- 1063 – PhidgetStepper Bipolar 1-Motor.
- 1067 – PhidgetStepper Bipolar HC.

The following table shows how to connect the motor wires to the board connectors to produce a clockwise rotation in the stepper motor when increasing position. To wire for counter-clockwise rotation when increasing position, reverse the black and white wires.

Wire Color	Orange	Red	Yellow	Black	White	Brown
Board Connector	+	A	B	C	D	+

To connect the motor to the 1063 or 1067 simply leave out the Orange and Brown wires.

**Note:** Make sure to unplug the power cord from the controller board before switching wires around.

## Product Specifications

### Motor Properties

Motor Type	Unipolar Stepper
Step Angle	18°
Step Accuracy	7 %
Holding Torque	50 g·cm
Rated Torque	30 g·cm
Maximum Speed at Rated Voltage	575 RPM

### Electrical Properties

Rated Voltage	12 V DC
Rated Current	80 mA
Coil Resistance	135 ?

### Physical Properties

Shaft Diameter	1.5 mm
Weight	24 g
Number of Leads	6

### Resources

- Stepper Motor and Controller Primer
- Wantai Data Sheet