

PM42L-048-17 950g-cm Unipolar Stepper



Product Description

This is the motor you want if you are looking for a low cost unipolar stepper that needs to do some work.

Motor Controller and Connection

The 3314 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 blue wires.

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

To connect the motor to the 1063 or 1067, leave out the two Red 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	$7\frac{1}{2}^{\circ}$
Step Accuracy	7 %
Holding Torque	950 g·cm
Rated Torque	710 g·cm
Maximum Speed at Rated Voltage	240 RPM

Electrical Properties

Rated Voltage	12 V DC
Rated Current	280 mA
Coil Resistance	43 Ω

Physical Properties

Shaft Diameter	3 mm
Weight	138 g
Number of Leads	6

Resources

- [Stepper Motor and Controller Primer](#)
- [Wantai Data Sheet](#)