

PM25L-048-15 140g-cm Unipolar Stepper



Product Description

This is a good compromise between the 3314 and the 3316.

Motor Controller and Connection

The 3315 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, 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	$7\frac{1}{2}^{\circ}$
Step Accuracy	7 %
Holding Torque	140 g·cm
Rated Torque	50 g·cm
Maximum Speed at Rated Voltage	240 RPM

Electrical Properties

Rated Voltage	12 V DC
Rated Current	100 mA
Coil Resistance	120 Ω

Physical Properties

Shaft Diameter	2 mm
Weight	31 g
Number of Leads	6

Resources

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