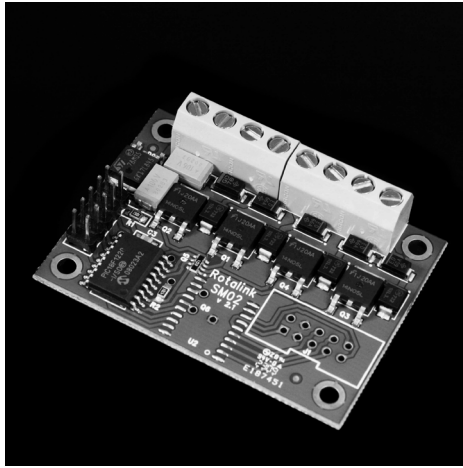


Permanent Magnet and Hybrid Stepping Motors

SM02 v2

Issue 02



Rotalink
Miniature Motors, Transmission and Control

The stand alone SM02 Unipolar stepper drive has a footprint of only 55mm x 40mm and can be panel mounted. It can drive a wide range of unipolar stepper motors, with 6 or 8 leads, at currents up to 1 Amp per phase and supply voltages from 9-24 Volts DC. The drive board and motor share the same power supply. Connections are made by PCB mounted terminal blocks. The board is programmed to drive at speeds from 16 to 500pps controlled by an external potentiometer. To assist customers we can also supply the SM02 with a fixed output speed or with other speed ranges. A standard 0.1" header provides direction control, full step (1 or 2 phase) or half step modes via jumpers or external control.

General Specification

Motor type	4 phase unipolar
Board supply voltage	9-24V DC
Motor supply voltage	9-24V DC
Motor phase current	1.0A max.
Motor speeds	16-500pps (other ranges are available)
Operating temp. range	0-85°C

Connectors

Power/Motor	8 pin screw terminal
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PCB Board

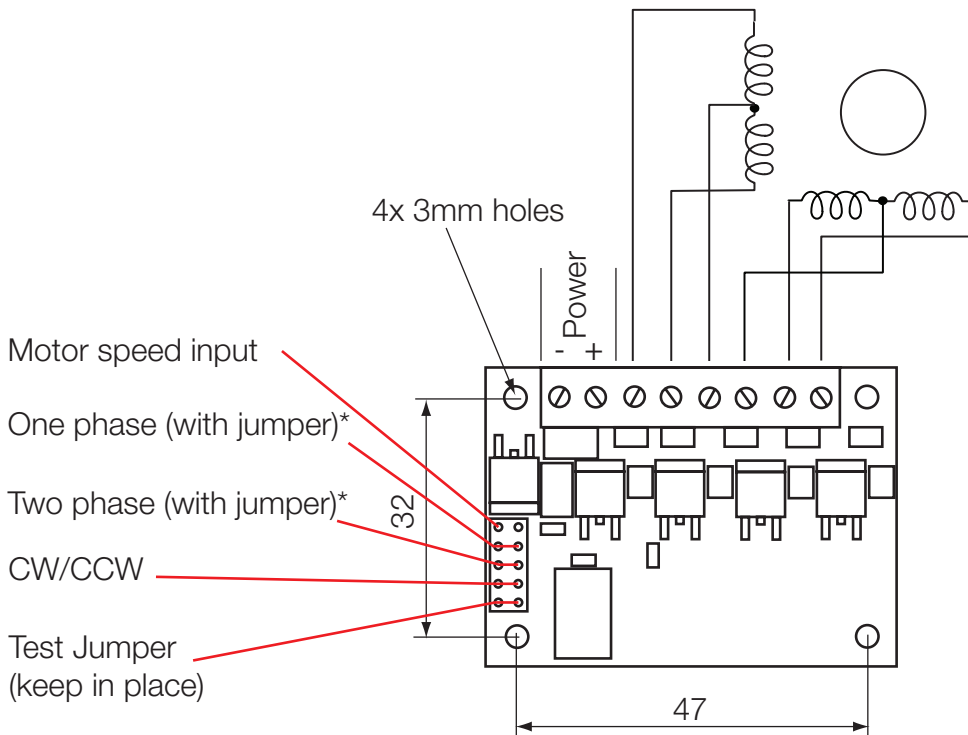
Board size	55mm x 40mm
Hole size	Diameter 3.0mm

Potentiometer Use

The value of potentiometer used will vary the speed range available. The potentiometers below show the effect of potentiometer value to speed range. Tolerances will apply:

220KΩ	16-504pps
100KΩ	16-480pps
50KΩ	16-444pps
10KΩ	16-270pps
5KΩ	16-186pps
1KΩ	16-62pps

Rotalink can provide resistor values for particular pps speeds if required.



* With both jumpers in place unit will half step.
With no jumpers motor will hold position.

Contact:

www.rotalink.com
info@rotalink.com
T: +44 (0)1460 72000
F: +44 (0)1460 74278

Rotalink Limited
Cropmead, Crewkerne
Somerset TA18 7HQ, UK

www.rotalink.com