

Stepper Motor Drive MD125



The OMS MD125 is a high-end micro-step motor driver with selectable micro-step resolutions. The MD125 is small, compact and robust and provides available step rates range from **full-step to 256 micro-steps**. The MD125 driver is capable of delivering up to **1.5 million micro-steps per second** to the step motor and an output current from **0.1 to 7 amps**, operating from a **supply voltage of 12 to 80 VDC**. The MD125 is designed to run hybrid PM step motors rated from **0.1 to 14 amps per phase**. When used with suitably sized motors, the MD125 can provide over one-third of the horsepower (**300 watts**) to the application.

The MD125 features an electronic circuit breaker to help protect the driver from dangerous conditions. Over-current (winding shorts, etc.), over-temperature (insufficient heat sinking), and under-voltage are sensed by the MD125. When any of these conditions occur the MD125 shuts down and turns on a fault LED to indicate the presence of the fault condition.

Measuring only 4"x4.5"x.875" the MD125 is small and compact. It comes encapsulated in a heat conductive epoxy and encased in an anodized aluminum cover. The result is an environmentally rugged package that resists abuse and contamination. The pin-out, size, and mounting of the MD125 driver is compatible with the previous OMS micro-step drivers - MD10A and MH10.