

CMD-260 Compact Microstep Drive

- Torques from 15 to 350 oz-in
- Speeds to 3,000 RPM continuous
- Dip switch selectable resolutions up to 50,800 steps per revolution
- Mid range stabilization prevents loss of motor synchronization
- Dip switch selectable automatic low power feature
- Optical isolation of all inputs and outputs provides high noise immunity
- Full short circuit protection.
- Accepts 24-80 VDC unregulated input
- DIP switch selectable current settings from 0.25-5.0 Amps
- Power and Fault LED indicators

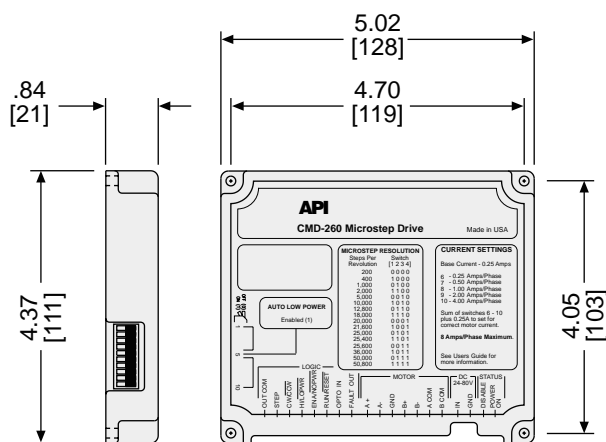


The CMD-260 is a state-of-the-art microstep drive utilizing surface mount technology with the translating and power stage needed to control virtually any hybrid step motor. By combining the ultra efficient MOSFET amplifiers, versatile H-bridge technology, and microprocessor controlled logic, the CMD-260 provides outstanding

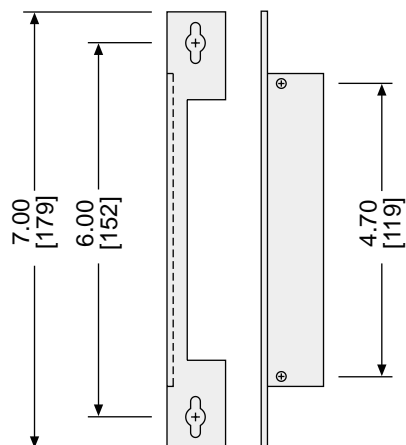
speed/torque performance. Another key element is microstepping, a technique where each mechanical full step of the motor is electrically broken down into many finer steps. The use of finer steps smooths out low speed jitters, minimizes resonances, improves positioning ability and reduces audible noise.

Each CMD-260 includes an integral heatsink; plug type connectors for motor, logic and power connections; DIP switch selectable step resolutions, current settings and standstill current reduction; and status LED's for drive disable and power on.

Dimensions



Optional Mounting Bracket BKT-260



[-] denotes millimeters
Subject to change without notice.

Drive Connections

Output Common	OUT COM	
Step Signal	STEP	
Direction Signal	CW/CCW	
High/Low Power Signal	HI/LOPWR	
Enable/No Power Signal	ENA/NOPWR	
Run/Reset	RUN/RESET	
Opto Input (5 VDC)	OPTO IN	
Fault Output (24 VDC Max)	FAULT	
Motor Phase A+	A+	
Motor Phase A-	A-	
Motor Ground	GND	
Motor Phase B+	B+	
Motor Phase B-	B-	
Motor Phase A Common	A COM	
Motor Phase B Common	B COM	
DC Input	IN	
DC Ground	GND	

DRIVE TYPE	2 phase, bipolar, constant current, MOSFET chopper, 20 kHz fixed.
RESOLUTIONS	200, 400, 1000, 2000, 5000, 10000, 18000, 20000, 21600, 25000, 25400, 25600, 36000, 50000, 50800.
POWER	
Inputs	24-80 VDC, +5VDC for Logic 100mA min.
Output	0.25-5.0 amps/phase. (Heatsink required over 4 amps)
PROTECTION	
Short Circuit	Phase to phase, phase to ground.
Over Temperature	Internal air temp exceeds 140° F (60° C).
LOGIC INPUTS	Optically isolated. TTL compatible.
STEP INPUT	Requires 0.5µsec min. width, 1 MHz max. pulse rate, steps on trailing edge.
FAULT OUTPUT	Sinking output to OUTCOM, 5-24 VDC, 60mA max. Disable LED on.
LOW POWER MODE	
Auto Reduce	DIP switch enabled. Current drops to 50% of selected value if no step pulses are received in 1 second.
ENVIRONMENTAL	
Temperature	Drive heatsink max. 140° F (60° C) Motor case max. 212° F (100° C) Storage -40° to 185° F (-40° to 85° C)
Humidity	0-95%, non-condensing.