Closed Loop Stepper Systems

E -Series

High Performance Steppers

The new eCL series introduces simple and precise closed loop control to Parker's microstepping product platform. Available in two driver form factors, standard (4Arms) and mini (2Arms), the eCL system optimizes performance with a wide array of stepper motors with integrated encoder feedback (Nema8, 11, 14, 17, 23, 60mm).

The eCL system maintains the inherent advantages of stepper control (high torque, stiffness, responsiveness, stability, no dither, simplicity) while eliminating common disadvantages (stalling, energy usage, motor temp, high speed operation, positional accuracy) through the addition of an innovative closed loop control algorithm.

Drive Specifications

Part Number		eCLD-2DC-SD	eCLD-4DC-SD
Ouput Current, amps		2	4
Drive Input Voltage		24VDC +/-10%	
Current Consumption		500mA (excluding motor current)	
Control Method		Closed Loop Control	
Command Signal	Type	Step & Direction (1-pulse) or CW/CCW (2-Pulse) Selectable via DIP switch 5V TTL or 12-24V open collector	
	Input Rate	500kHz maximum	
Rotational Direction		CW/CCW (Selectable via DIP switch)	
Resolution		16 Selectable choices : 500, 1000, 1600, 2000, 3200, 3600, 4000, 5000, 6400, 8000, 10000, 20000, 25000, 36000, 40000, 50000 (Selectable via DIP switches)	
I/O	Inputs	Enable, Alarm reset 5-24VDC opto-isolated	
	Outputs	In-position, Alarm 5-24VDC opto-isolated	
Protective Functions		Overcurrent, Over speed, Position Tracking Error, Over Load, Over Temperature, Over Voltage, Motor Connection Error, Encoder Connection Error, Motor Voltage Error, In-Position Error, ROM Error, Position Overflow Error	
LED Display		Power status, In-Position status, Enable status, Alarm status	
Environmental		0 - 50 °C (32 - 122 °F) 35 -85% non-condensing	
Standards		CE (EMC) RoHS	

Contact Information:

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