# Low Current Drive for Can Stack Linear Actuators

Haydon Kerk Motion Solutions Inc. offers the Haydon RoHS compliant PCM4806 IDEA programmable linear actuator drive. The PCM4806 is the most recent addition to the IDEA Drive family of products. It's optimized to regulate a low current power stage suitable for controlling the smaller Haydon can-stack linear actuators. With the addition of the PCM4806 to the IDEA line, there's a programmable drive available for use with just about the entire line of Haydon stepper motor linear actuators.
The IDEA Drive is a compact, easy-to-use electronic drive and fully programmable control unit with a patent pending graphic user interface. Programming the drive is accomplished through the use of on-screen buttons instead of complicated command sets or other proprietary programming languages.

A unique feature of the graphic user interface is automatic population of the motor and drive parameters based on entering a Haydon actuator part number when prompted by the user interface. Complex parameter calculations or in-depth stepper motor knowledge from the user is completely unnecessary. For a more experienced user, default values can easily be adjusted as long as they remain within the safe range calculated by the software. The software allows the system designer to easily troubleshoot programs using line-by-line or multiple line program execution using the interactive debug feature. Inputs and outputs can also be simulated in software before ever connecting actual I/O hardware.

Other features include programmable current control, a single supply voltage of 12 to 48 VDC, 0.6 Arms (0.84 Apeak) max rated current per phase, and eight opto-isolated general purpose I/O. The inputs are rated for 5 to 24 VDC, 4 mA max per input. The outputs are open collector, 5 to 24 VDC, 200 mA maximum per output. Communications to the IDEA Drive is via a USB to mini USB.

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