PLEASE NOTE: This is a legacy product, meant to provide reference data and is not intended for new machine designs. Please consider alternative HKP product for new machine designs.

PCM4806E / PCM4826E IDEA® Drives

Fully programmable control units that use an intuitive Graphic User Interface (GUI). The IDEA® Drive technology is available in several different configurations including an external programmable drive and controller, or integrated with a linear actuator to form a complete package of motor.

Simple to use IDEA® Drive with on-screen buttons and easy to understand programming guides

The software program generates motion profiles directly into the system and also contains a "debug" utility allowing line-by-line execution of a motion program for easy troubleshooting.

Benefits

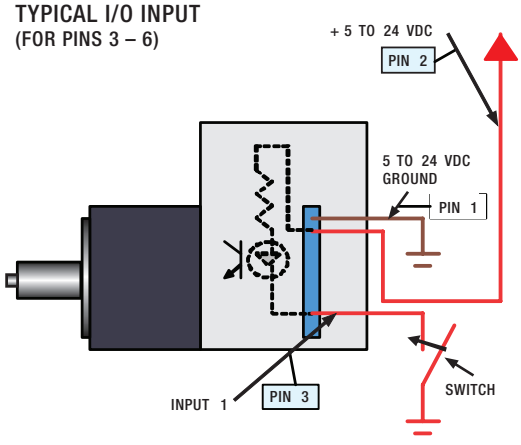
- RoHS Compliant
- Stand-alone unit or integrated with our linear actuators / rail systems
- Programming through Graphic User Interface (GUI)
- Automatic population of motor and drive parameters
- Programmable Speed / Current / Accel-Decel / Current Boost / Interrupts / I/O
- Encoder Input / Stall Detection with Compensation / Position Verification
- USB Communication protocol
- Movement profile plotter
- Interactive program debug feature

Accessories	Part No.
USB Cable (A to Mini B), 2 meters	56-1346
Power Cable, 1 meter	56-1348
I/O Cable, 1 meter	56-1352
Encoder Cable, 0.3 meter	56-1715
Software Installation Disk	55-010
Motor Connector Assembly	56-1453

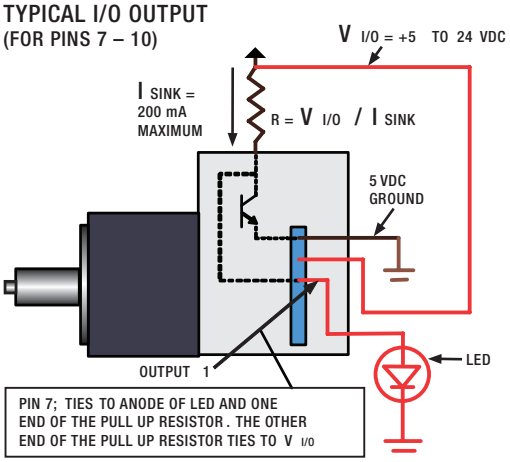
Specifications

	PCM4806E	PCM4826E
Drive Input Voltage Range	12 to 48 VDC	
Max Drive Current / Phase	0.6 A rms	2.6 A rms
Current Boost Capability	Optional 30% current boost capability during ramping	
Communication	USB (mini B)	
Step Modes	Full, Half, 1/4, 1/8, 1/16, 1/32, 1/64	
Digital I/O Voltage Range	5 to 24 VDC	
Digital Inputs	4	
Digital Input Max Current	8 mA (each)	
Digital Outputs (Sinking)	4	
Digital Output Max Current (Sinking)	200 mA	
Maximum Temperature	70°C measured at heat sink	
Program Storage Size	85 Kbytes	
Program Storage Memory Type	Flash	
Maximum Number Stored Programs	85 - referenced by 10 character program names	
Position Counter Range	64 bit	
Ramping	Trapezoidal	
Interrupt Sources	4 inputs (rising, falling or both edges) Internal Position Counter (when reaching a programmed position)	
Max # Drives per Communication Bus	1	

TYPICAL I/O INPUT
(FOR PINS 3 – 6)



TYPICAL I/O OUTPUT
(FOR PINS 7 – 10)



Dimensional Drawings: PCM4806E • PCM4826E

Dimensions = (mm) inches

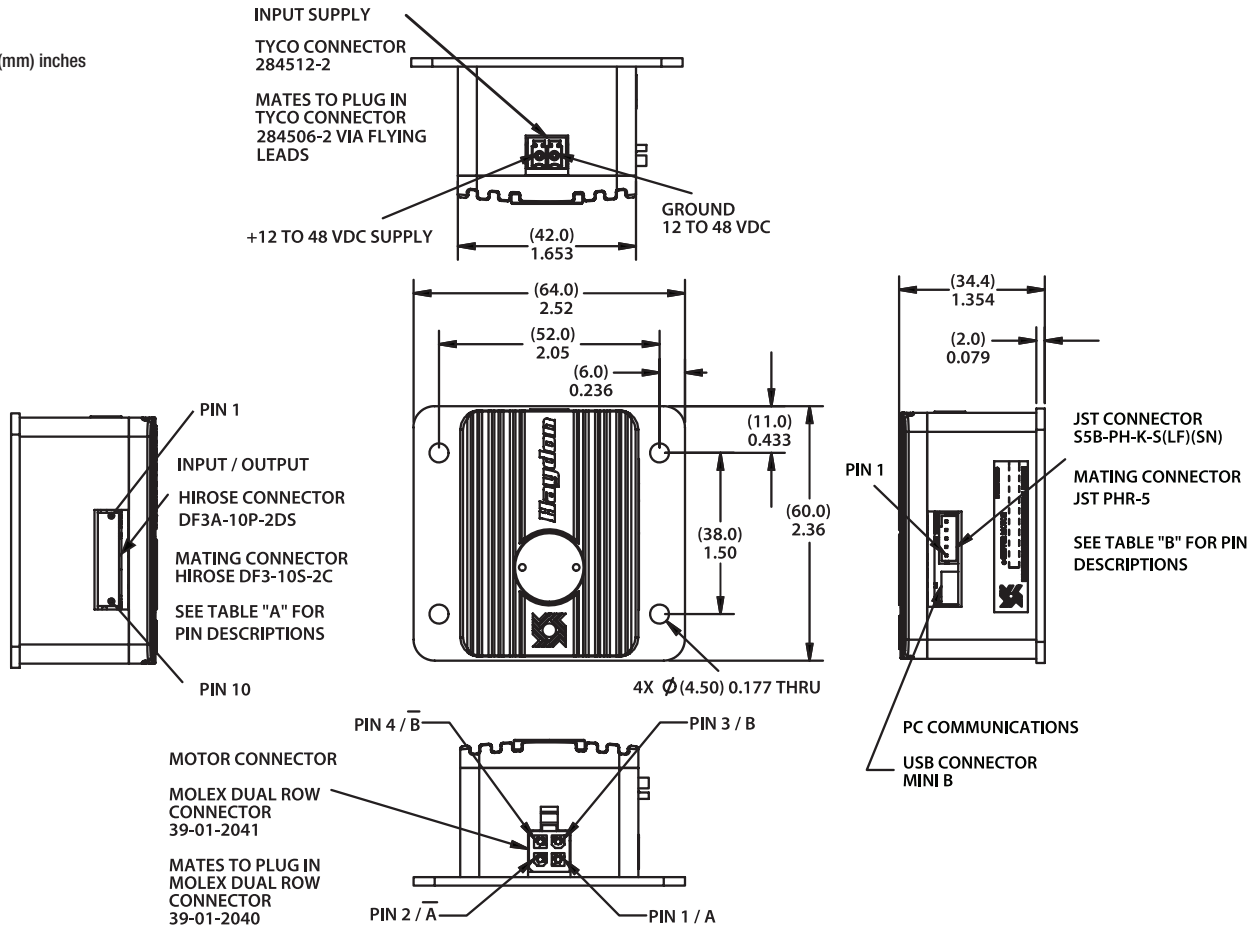


Table A

PIN #	Description	Note
1	GROUND I/O SUPPLY	5 - 24 VDC
2	+ I/O SUPPLY	5 - 24 VDC
3	INPUT 1	
4	INPUT 2	
5	INPUT 3	
6	INPUT 4	
7	OUTPUT 1	
8	OUTPUT 2	
9	OUTPUT 3	
10	OUTPUT 4	

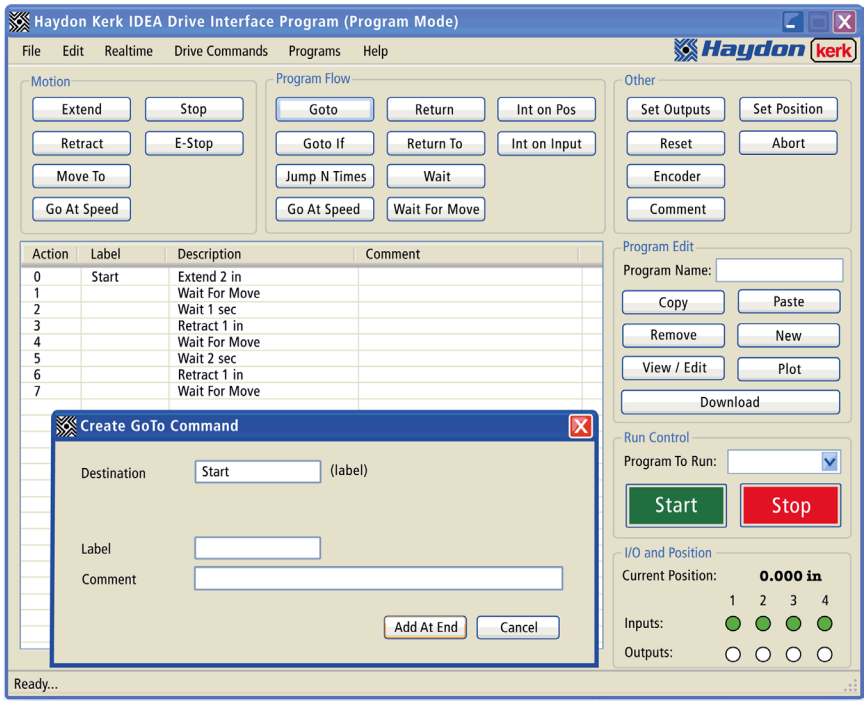


Table B

PIN #	Description
1	+5V
2	GROUND
3	INDEX / NO CONNECTION
4	"B" CHANNEL
5	"A" CHANNEL