



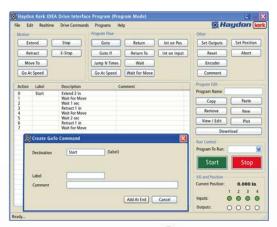
Motor Drives: IDEA™ Drive / Stepper Motor Programmable Motor Controller

Haydon® IDEA™ Drives PCM4806E/PCM4826E

and ACM4806E/ACM4826E - stepper motor drives featuring a fully programmable control unit that uses an intuitive patent-pending 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, actuator, and programmable drive.

IDEA™ Drive software is simple to use 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.



Specifications

IDEA Drive Part Number	PCM4806E	PCM4826E
Drive Input Voltage Range	12 to 48 VDC	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 2	4 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 tion Counter (when reaching)	both edges) Internal Posi- ng a programmed position)
Max. # Drives per Communication Bus	s 1	

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	ACM4806E	ACM4826E		
1	12 to 48 VDC	12 to 48 VDC		
1	0.6 A rms	2.6 A rms		
1	Optional 30% current boos	t capability during ramping		
	RS-	485		
	Full, Half, 1/4, 1/8	3, 1/16, 1/32, 1/64		
	5 to 24 VDC			
	4			
	8 mA (each)			
	4			
	200 mA			
	70°C measured at heat sink			
	85 Kbytes			
	Flash			
	85 - referenced by 10 character program names			
	64 bit			
	Trape	zoidal		
	4 inputs (rising, falling or tion Counter (when reachi	both edges) Internal Posi- ng a programmed position)		
	27	25		

Features include:

- RoHS Compliant
- Stand-alone unit or integrated with Haydon linear actuators / rail systems
- Programming done 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 or RS-485 Communication protocols
- Movement profile plotter
- · Interactive program debug feature

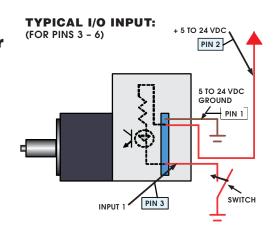
Accessories	Part No.
USB Cable (A to Mini B), 2 meters	56-1346
Power Cable, 1 meter	56-1348
I/O Cable, 1 meter	56-1352
RS-485 Cable, 1 meter	56-1536-4
Encoder Cable, 0.3 meter	56-1715
Software Installation Disk	55-010
Motor Connector Assembly	56-1453
USB to RS-485 Adapter	UTR4852



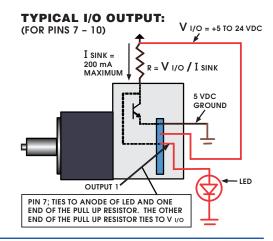


Motor Drives: IDEA™ Drive / Stepper Motor Engineering Drawings

IDEA™ Drive **Stepper Motor Controller Typical** I/O Input and I/O Output



INPUT SUPPLY



Engineering Drawings: IDEA™ Drive **PCM4806E** and PCM4826E

Dimensions = (mm) inches

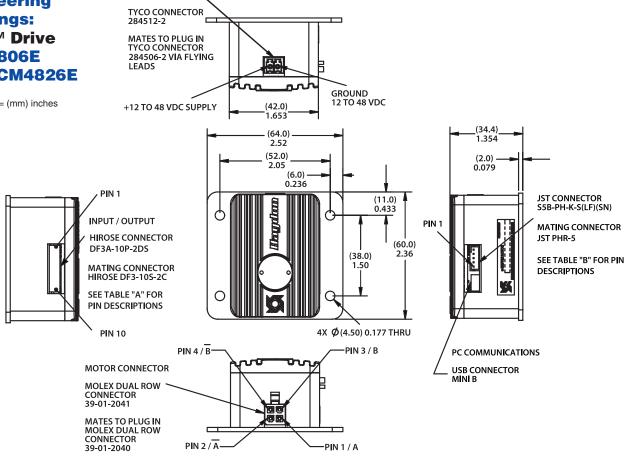


TABLE "A"

	TABLE A	
PIN POSITION	DESCRIPTION	NOTES
PIN 1	GROUND I/O SUPPLY	5 TO 24 VDC
PIN 2	+ I/O SUPPLY	5 TO 24 VDC
PIN 3	INPUT 1	
PIN 4	INPUT 2	
PIN 5	INPUT 3	
PIN 6	INPUT 4	
PIN 7	OUTPUT 1	
PIN 8	OUTPUT 2	
PIN 9	OUTPUT 3	
PIN 10	OUTPUT 4	

TABLE "B"

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

ADVANCED MOTION SOLUTIONS



Engineering Drawings:

IDEA™ Drive ACM4806E and ACM4826E Stepper Motor Controller

Dimensions = (mm) inches

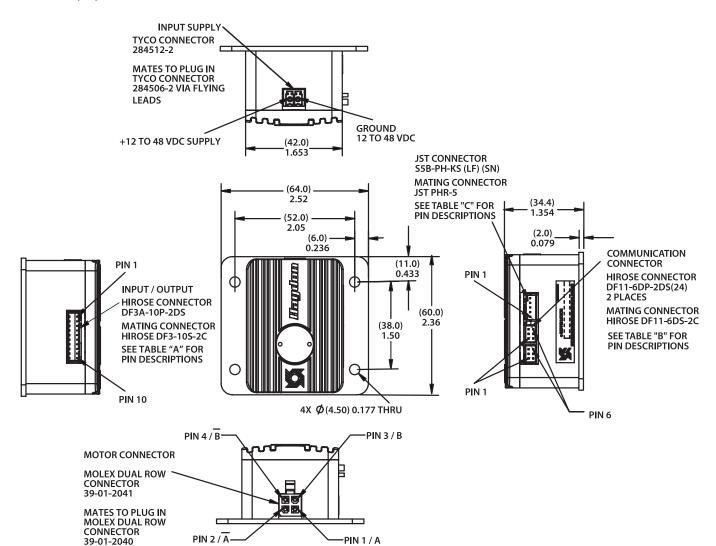


TABLE	.".
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PIN POSITION	DESCRIPTION	NOTES
PIN 1	GROUND I/O SUPPLY	5 TO 24 VDC
PIN 2	+ I/O SUPPLY	5 TO 24 VDC
PIN 3	INPUT 1	
PIN 4	INPUT 2	
PIN 5	INPUT 3	
PIN 6	INPUT 4	
PIN 7	OUTPUT 1	
PIN 8	OUTPUT 2	
PIN 9	OUTPUT 3	
PIN 10	OUTPUT 4	

TABLE "B"

PIN#	DESCRIPTION
1	Y / NON-INVERTING DRIVER OUTPUT
2	Z / INVERTING DRIVER OUTPUT
3	GROUND
4	GROUND
5	A / NON-INVERTING RECEIVER INPUT
6	B / INVERTING RECEIVER INPUT

TABLE "C"

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