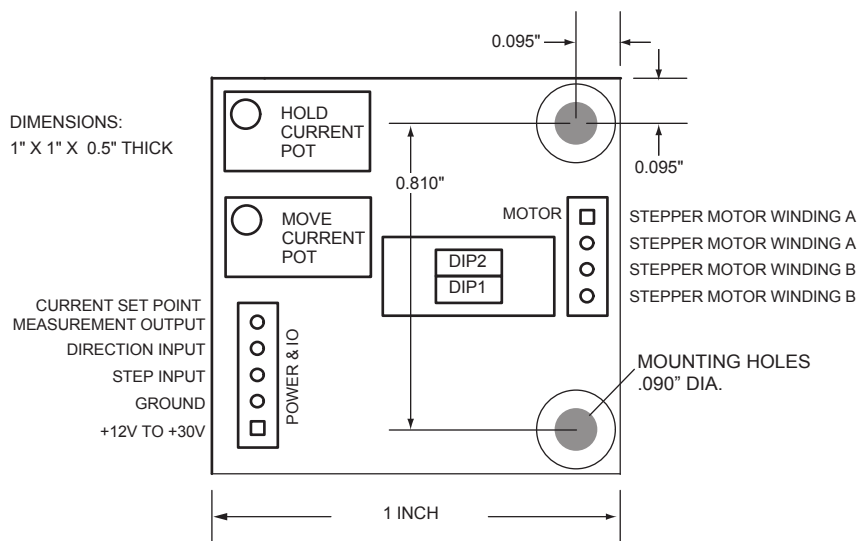


General Specifications

Supply Input	9V to 30V 1A or 2A (2A version includes heatsink) Examples: Digikey part 285-1820 or 1470-1015
Dimensions	1" X 1" (25.4mm X 25.4mm) square, 0.5" (12.7 mm) thick
Step Resolution	1/8, 1/4, 1/2, full step or 1/16, 1/4, 1/2, full step
Step Frequency	Up to 25000 pulses per second
Operating Mode	Standalone
Motor compatibility.....	Accommodates most size 23 (3") and smaller stepper motors, including bipolar or unipolar-wound motors. Best performance is with motor rated at about ¼ of supply voltage.
Mating Connectors	AMP MTA 100 series. Recommended tool: Digikey part A9982, or better Digikey parts A2031 + A1998. (See Application Note 131021 for nonstandard connector options.)
Inputs	Step, direction, power, and ground Step and direction signal Levels: <0.8V Vlow; >2V Vhigh (TTL compatible), 24V tolerant
Operating Temperature	-20 to 85 °C PCB copper temperature
Relative Humidity	10% to 90% non condensing (operating and storage)

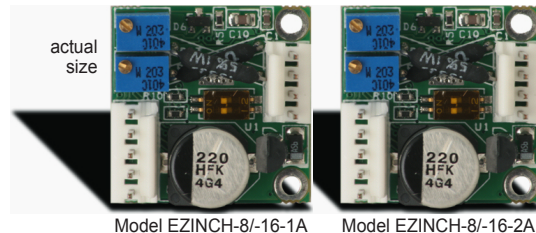
Mechanical Specifications



DIP2	DIP1	MICROSTEPPING RESOLUTION	
		-8 versions	-16 versions
ON	ON	FULL	FULL
ON	OFF	HALF	HALF
OFF	ON	QUARTER	QUARTER
OFF	OFF	EIGHTH	SIXTEENTH

See wiring diagram (on website) for application details.

Miniature step and direction Stepper Motor Driver



Versions

EZINCH-8	1/8, 1/4, 1/2, full step resolution	1A output
EZINCH-16	1/16, 1/4, 1/2, full step resolution	1A output
EZINCH-8-2A	1/8, 1/4, 1/2, full step resolution	2A output
EZINCH-16-2A	1/16, 1/4, 1/2, full step resolution	2A output

MOTOR CONNECTOR

Mating Connector: AMP MTA 100 series 4 pin, 22 GA, part 3-643813-4 Digikey part A31108-ND

Pin	Function	Notes
1,2	Stepper winding A	1A or 2A version, bipolar chopper
3,4	Stepper winding B	1A or 2A version, bipolar chopper

POWER AND I/O CONNECTOR

Mating connector: AMP MTA 100 series 5 pin, 22GA, part 3-643813-5 Digikey part 31109-ND

Pin	Function
1	V+ (external supply) +12V to 30V
2	Ground
3	Step input
4	Direction input
5	Current set point measurement output Current (amps) = V (volts at pin) * 0.38 for 1A models Current (amps) = V (volts at pin) * 0.76 for 2A models

Key Features

- 4 Wire input: STEP, DIRECTION, GROUND, POWER
- 1 A or 2A chopper (PWM) stepper driver
- Operates from +9V to 30V
- 1" X 1" X 0.5" thick
- 1/8 or 1/16, 1/4, 1/2, full step; dipswitch-selectable
- Hold and move current settable with potentiometers
- Move current automatically selected when step input is active
- Hold current automatically selected upon move completion
- Up to 25000 pulses per second

Ordering Information

Name	Order Number
EZINCH with 1/8 to full-step res., 1A out.....	EZINCH-8
EZINCH with 1/16 to full-step res., 1A out.....	EZINCH-16
EZINCH with 1/8 to full-step res., 2A out.....	EZINCH-8-2A
EZINCH with 1/16 to full-step res., 2A out....	EZINCH-16-2A