



Electronic position sensor for brushless DC motors

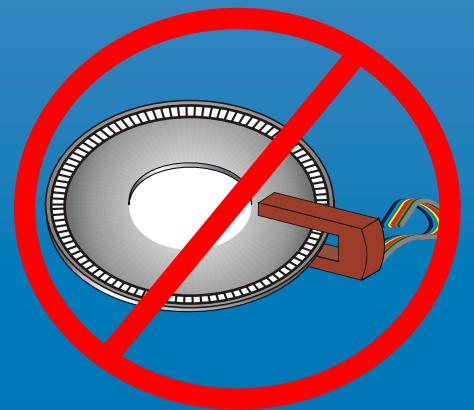
- *High resolution sensing of absolute rotational position and speed, without shaft encoders or Hall sensors*
- *High reliability - eliminates mechanical and optical sensors*
- *Sensing circuits are integrated with motor drivers, automatically driving commutation and providing precise speed and position control*
- *Uses the magnetic characteristics of the motor to sense rotor position, eliminating the need for mechanical adjustments or alignments*
- *Works at any speed, even while motor is stopped*
- *No injection of extraneous sense signals into motor windings*
- *Eases packaging - no requirement to place components near motor*
- *Works with standard brushless motors*



NO TACH ROLLERS

***Evaluation
units available
see reverse side for details***

PATENT PENDING



**NO CODE WHEELS
NO ENCODERS**

Evaluation unit

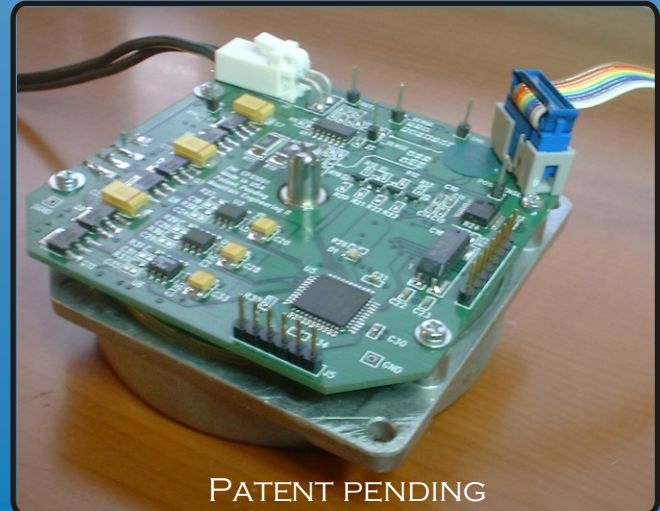
The evaluation unit permits testing of the electronic position sensor within minutes. Connect the power, attach the included cable to an RS232 ASCII terminal (such as a PC with HyperTerminal), and with a few simple commands you are in control of the motor. The evaluation unit consists of a brushless DC motor, motor driver, the electronic position sensor, and an easy-to-use interface.

Specification			
	EPS-12	EPS-18	
Speed	2,700	4,000	RPM (max unloaded)
Supply voltage	12	18	V
Supply current	3	3	A (at max torque)
Torque	12.6	12.6	N*cm (max at stall)
Resolution	1,024	1,024	max count per revolution (scalable)

Interfaces: RS232 standard, I²C and SPI optional

Commands:

- Set constant RPM
- Set constant torque
- Set constant position
- Use frequency feedback input
- Use analog feedback input
- Query position and RPM
- Diagnostics



For more information:

visit: <http://www.mountainengineering.com/sensor.html>

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