



Magnetic Multi-Turn Absolute Encoder

Proven Technology

The PMC encoder is another leading edge product filling the need for a low cost absolute position sensor and pulse generator in a standard or custom package. Using current sine-cosine technology, we are able to produce a product with no moving parts that sets new standards in the encoder and position sensing market. It offers two distinct outputs:

1. An 8 bit signal via RS485 with battery backup for absolute positioning even with power loss.
2. A selectable resolution pulse generator for direct motion feedback to the controller.

Industrial Packaging

In addition to all the electronic features, our unique custom molded package adds another innovation to this product. We use a molding process that is directly applied over the electronic board providing a high level of environmental protection. The molding material, called Macromelt is a combination of hot melt and adhesives used extensively in the automotive market. We have successfully operated our encoder completely submerged under water for two weeks. This molded package can be customized specifically for your application at only the cost of new affordable tooling.

Maintenance Free

Our encoder uses a separate rotating magnet assembly for position sensing. This means, no moving parts in the encoder, no bearings to wear out and better reliability. We currently offer two standard variations of magnet assemblies – one to fit over a 1" shaft and the other with an M6 thread for screwing in the shaft. Other designs will be available as required.

Closed Loop

When the PMC encoder is used with our new DGII door controller, it becomes a closed loop vector system. With this closed loop system, we directly control the output torque of the motor in real time thus offering a new level of operation and increased safety for every door or gate.



At-A-Glance

- Environmentally Protected
- Absolute + Pulse Output
- No Moving Parts
- Customize Shape to Fit Your Application