Enabling the Electronics Revolution

PIHER sensing systems
an Amphenol® company

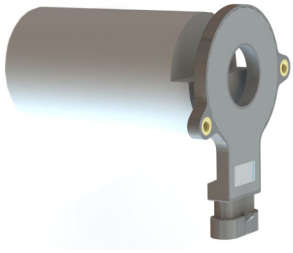
Inductive Motor Position Sensor

For electric and hybrid vehicles

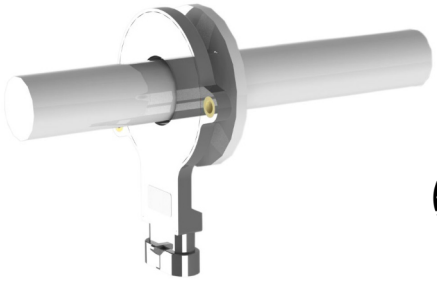
Accurate feedback on the angular position, direction, and speed of the rotor shaft is essential to optimize motor inverter control and drive the electric motor with the highest possible efficiency.

With lower weight, smaller dimensions, immunity to stray fields, and a comparatively lower cost, Piher Sensing Systems' inductive position sensing technology offers a true alternative to traditional resolvers.

The ability to fully customize the sensor to the motor dimensions provides greater flexibility in the development of electric and hybrid powertrains.







RARE EARTH FREE

KEY FEATURES

- Fully customizable to fit the target application
- Excellent accuracy and precision
- Immune to stray fields and magnet-free
- ASIL-C and ASIL-D ready
- Suitable for harsh environments
- Low weight and compact dimensions
- True power-on position sensor
- Cost-effective compared to revolvers

OUR ADVANTAGE

- Leading-edge innovative position sensing solutions
- Capability to move seamlessly from development to true high-volume production
- Global engineering and commercial support
- Flexibility and entrepreneurship of a medium-sized company with the backing of Amphenol

TECHNICAL SPECIFICATIONS	
Signal output	Analog: differential sine/cosine Digital*: ABI, SPI, SENT, AB, PWM
Max. speed	Up to 600.000 rpm (electrical)
Propagation delay	‹ 4.2 µs
Resolution	Analog: infinite Digital*: 14-bit
Accuracy	±0.3°el
Operating temperature	-40°C to +160°C
Power consumption	‹ 20 mA
Sealing	IP69K
Pair poles	Up to 32

* check availability. Others upon request.

Disclaimer:
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