

# MISSION CRITICAL RELIABILITY.

## MAGNETIC FIELD TRANSDUCERS WITH HALL PROBE

Continuous monitoring of rotor magnetic field in large electrical machines for early detection of faults and anomalies in mission-critical marine applications.



### NON-INVASIVE INSTALLATION

Mounted in the stator airgap – no impact to machine operation.



### RUGGED & RELIABLE

Built for harsh marine environments: shock, vibration, humidity, salt spray.



### 24/7 REAL-TIME MONITORING

Provides continuous visibility of rotor magnetic field.

HALL PROBE  
MAGNETIC FIELD  
TRANSDUCER

## ESSENTIAL FOR NAVAL PROPULSION SYSTEMS

Electrical machines in submarines and large ships must operate flawlessly. Undetected faults can lead to mission failure, high repair costs, and safety risks.



### SUBMARINES

Ensures silent and reliable propulsion for covert missions.



### SURFACE SHIPS

Maintains power and propulsion availability in all conditions.



### HIGH RELIABILITY

Prevents catastrophic failures and extends machine lifetime.

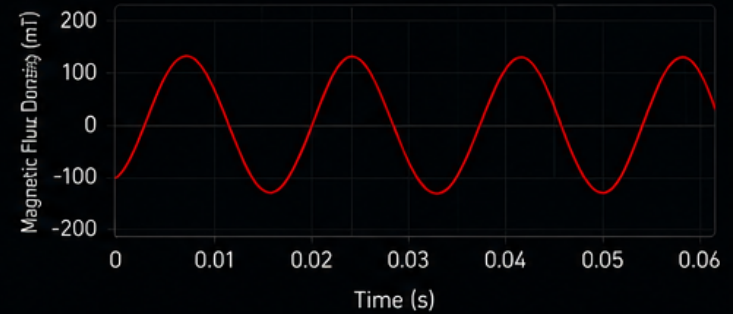


### LOWER OPEX

Reduces unplanned maintenance and downtime.

## REAL-TIME MAGNETIC FIELD MONITORING

Measures the rotor magnetic field through the stator airgap.



## DETECTS CRITICAL ANOMALIES

### ROTOR SHORT CIRCUITS

Asymmetry in magnetic field waveform



### EXCESSIVE VIBRATIONS

Fluctuations in field amplitude and frequency



### AIRGAP ECCENTRICITY

Variation in field uniformity



## KEY BENEFITS

- ✓ Early fault detection
- ✓ Prevents catastrophic failures
- ✓ Reduces unplanned downtime
- ✓ Extends machine lifetime
- ✓ Ensures mission availability
- ✓ Improves crew and asset safety
- ✓ Lower maintenance costs

## SENIS MAGNETIC FIELD TRANSDUCER



- High accuracy
- Wide frequency response
- Robust and reliable
- Compact and easy to install
- Designed for extreme marine environments

## BUILT FOR EXTREME MARINE ENVIRONMENTS



SHOCK & VIBRATION



SALT SPRAY & CORROSION



WIDE TEMP. RANGE



ELECTRICAL NOISE IMMUNITY



LONG-TERM RELIABILITY

**SENIS**  
magnetic solutions

PROTECT YOUR MISSION. **PROTECT YOUR ASSETS.**  
Advanced magnetic field monitoring for the reliability and safety of naval vessels – submarines and surface ships.



DETECT EARLY



PREVENT FAILURE



ENSURE AVAILABILITY

**MEASURE IT.  
MONITOR IT.  
PROTECT IT.**