

# MONITOR. DETECT. PROTECT.

## 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 applications.

HALL PROBE  
MAGNETIC FIELD  
TRANSDUCER

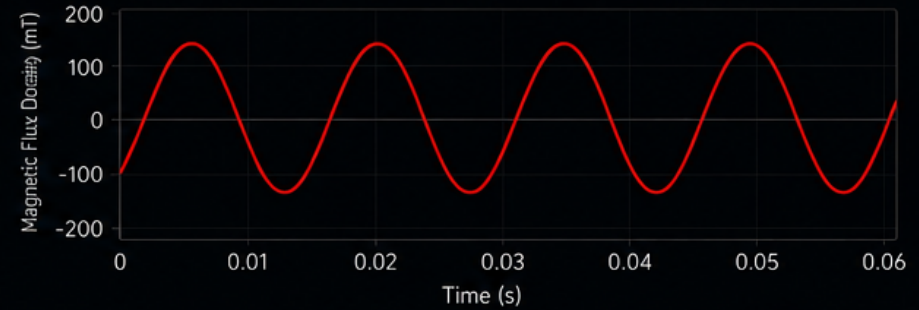
### APPLICATION

Large electrical machines in hydro power plants (generators and motors) for reliable and continuous operation.



### 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



### BENEFITS

- ✓ Early fault detection
- ✓ Prevents unplanned outages
- ✓ Reduces maintenance costs
- ✓ Extends machine lifetime
- ✓ Improves plant availability
- ✓ Ensures operational safety



### SENIS MAGNETIC FIELD TRANSDUCER

- High accuracy
- Wide frequency response
- Robust and reliable
- Easy to install
- Designed for harsh environments

### WHY IT MATTERS



GRID  
RELIABILITY



MAXIMUM  
UPTIME



REDUCED  
MAINTENANCE



HIGH PLANT  
EFFICIENCY



SUSTAINABLE  
ENERGY

**SENIS**  
magnetic solutions

Advanced magnetic field monitoring for the reliability and safety of large electrical machines in hydro power plants.

MEASURE IT. MONITOR IT. PROTECT IT.