

SENIS MAGNETOMETERS – ENSURING SAFETY, EMC & PERFORMANCE

Testing & monitoring magnets and magnetic parts in consumer electronics for a smarter, safer world

From R&D to production – SENIS magnetometers and transducers deliver precise magnetic field measurements for quality, EMC compliance and optimal performance.

APPLICATIONS IN CONSUMER ELECTRONICS



- Smartphones & tablets
- Smartwatches & wearables
- TWS earbuds & audio devices
- Haptics, speakers, microphones
- Wireless charging & power modules
- Magnetic connectors, covers & cases
- Electronic PCBs & components

WHY MAGNETIC TESTING MATTERS

- Ensure electromagnetic compatibility (EMC) & regulatory compliance
- Protect user safety from unwanted magnetic exposure
- Guarantee performance of sensors, audio, haptics & wireless systems
- Improve product quality, reliability & consistency in mass production

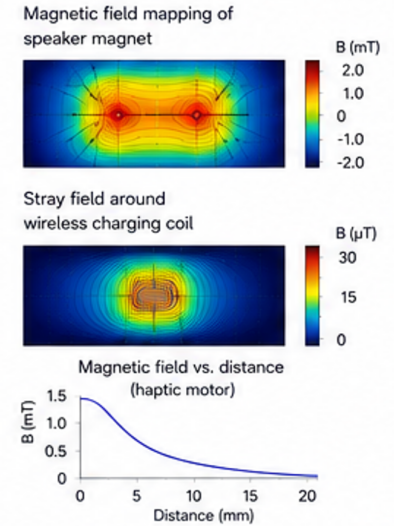
TYPICAL MAGNETIC PARTS IN DEVICES



TESTING FOR EMC & SAFETY

- Stray field analysis & mapping
- Magnetic field exposure compliance (ICNIRP, IEC 62311)
- Shielding effectiveness
- Crosstalk & interference between components
- In-line monitoring for production control

MEASUREMENT EXAMPLES



SENIS SOLUTIONS – PRECISE, VERSATILE, RELIABLE



F3B Field Transducer
Ultra-high bandwidth for dynamic & pulsed field measurements (up to MHz range)



I3D Isotropic 3-Axis Transducer
True 3D magnetic field measurement for complex field analysis & mapping



3MH4 Teslometer
Versatile 3-axis teslometer for R&D, production & quality control



3MH1-E Teslometer
Compact 3-axis teslometer for small magnets & magnetic components

PRODUCTION & QUALITY ASSURANCE



- In-line & at-line testing
- 100% inspection capability
- Process monitoring & control
- Traceable results & data logging
- Easy integration (PLC, LabVIEW, API)

WORKFLOW – FROM DESIGN TO PRODUCTION



TRUSTED BY LEADING COMPANIES WORLDWIDE

SENIS magnetometers are used worldwide by electronics manufacturers, EMS providers and R&D labs to ensure EMC compliance, user safety and peak performance in consumer electronics.



SENIS
magnetic & current measurement

www.senis.swiss

Precision. Safety. Performance.