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## **SENIS Advanced Sensors and Instruments for Magnetic Field and Electric Current Measurement**

SENIS develops advanced sensors and measurement instruments essential for the precise characterization of magnetic fields in accelerator magnets and insertion devices. This abstract presents the latest innovations and applications of SENIS's vertical and horizontal Hall sensors, 3D Hall sensors, low-noise teslameters, cryogenic low-noise magnetic field transducers, 3D magnetic field mappers and 3D camera, as well as Hall-based current sensors used in the detectors for monitoring boards at CERN. These devices, notable for their high resolution, accuracy, and compact design, are crucial tools for the fiducialization and alignment of magnets as well as for monitoring, ensuring high precision and reliability in various scientific and industrial applications.

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