

Robotics Sensing Solutions

Robust, compact and customizable sensing for robot joints, actuators and autonomous mobile platforms

PIHER *sensing systems*
an Amphenol® company



ROBOT JOINTS

Compact axes & pivot arms



ACTUATORS

Lift, steering & grippers



AGVs / AMRs

Mobile platforms & warehouses



SIL-ORIENTED

Safety-related industrial architectures



Non-contact rotary position monitoring using Hall-effect and inductive technology.



- Through-shaft, end-of shaft, ARC and two-part versions
- High accuracy and precision
- Low current consumption
- Stable performance in harsh environmental conditions
- Stray-field immune
- ASIL-D ready
- Lightweight

Wear-free position feedback for linear motion systems



- True touchless operation
- Long measurement ranges
- Immune to magnetic stray fields
- Unlimited mechanical life
- Compact and low-profile package
- Made for harsh environments

Rotor Position, Stability, navigation and power monitoring



- Stray-field immune
- ASIL-D ready
- Through-shaft, end-of-shaft and ARC/off-axis configurations
- Magnet-free

- Measured current values from ± 25 A to $\pm 1,500$ A
- Busbar or wire mounting
- Total accuracy over temp error < 1%FS
- Linear error < 0.1%FS
- Simple or redundant output

- Digital signal processing, filter algorithms
- Analog and CAN
- Dual-axis combined gyroscope and accelerometer
- Accuracy < 0.5°
- Fully sealed (IP69K)