

Company Backgrounder
SPS/IPC/Drives 2014

Most Preferred Partner for Sensing and Control

Micronas (SIX Swiss Exchange: MASN) the most preferred partner for sensing and control serves all major automotive electronics customers worldwide, many of them in long-term partnerships for lasting success. While the holding company is headquartered in Zurich (Switzerland), operational headquarters are based in Freiburg (Germany). Currently, the Micronas Group employs around 900 persons.

Micronas handles all of the different stages from development to production of its semiconductor solutions for automotive and industrial electronics under one roof, enabling the Company to provide customers with a high level of flexibility and a fast time to market. Based on deep market and system know-how and together with its best-in-class technical support, Micronas offers its customers innovative key solutions for their ever more demanding applications. Products from Micronas are known for quality and reliability. These core attributes, together with the commitment to functional safety, excellent logistics and safe supply are making the Company a reliable partner for its customers. Using products from Micronas means to incorporate robust sensor solutions, meeting the customers' product reliability demands. As the market leader for linear sensors in automotive applications, Micronas offers the world's largest Hall sensor portfolio for both the Automotive and the Industrial market and has already shipped more than three billion Hall sensors for highly demanding applications.

For more information about Micronas and its products, please visit www.micronas.com.

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Product Portfolio

Hall-effect Sensors

- Major automotive trends such as CO₂ reduction and car electrification are asking for tighter controls, thus increasing the demand for magnetic sensors
- More than 85% of magnetic sensors in cars are based on the Hall effect
- Micronas offers the broadest Hall-effect sensor portfolio for Automotive applications covering switches, linear, direct angle and current sensors

Embedded Controllers for Smart Actuators

- Up to 100 electric motors per vehicle
- Micronas offers fully integrated controllers for BLDC, BDC and stepper motors
- Those all-inclusive single-chip control solutions feature higher system efficiency to reduce motor size and weight

Gas Sensors

- Versatile, integrated digital gas sensor technology
- Gas detection based on CCFET technology
- Fast detection of concentration changes of selected ambient trace gases
- Fabrication process embedded into Micronas' CMOS manufacturing technology
- Immunity against environmental interference, low cross-sensitivities

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Automotive Markets and Applications

- Powertrain
Active Pedal, Powertrain Valves, Battery Management,
Gear Position, Shift Lever Position, Clutch Position, Engine
Oil Level, Variable Valve Timing
- Chassis and Safety
Steering Torque, Steering Angle, Steering Motor Position,
Chassis Height, Braking
- Body and Comfort
Window Lift / Sun Roof, Wiper Position, Door Lock, Buckle
Switch, Adaptive Headlights, HVAC, Blower and Flap
Control, Seat Position

Industrial Markets and Applications

- Building, Home and Office Automation
HVAC, Rolling Shutter / Blinds, Door / Window Locks,
Copy and Fax Machine, Water Metering
- Factory and Process Automation
Process Equipment, Production Equipment, Wind Energy,
Solar Energy, Factory Transportation
- Home Appliance and White Goods
Washing Machine, Dishwasher, Coffee Machine, Mixer,
Water Softener
- Mobility and Robotics
E-bike, Wheel Chair, Utility Tractor, Robot, Golf Cart
- Garden and Power Tools
Mower, Chain Saw, Trimmer, Blower, Cordless Drill
- Agricultural and Heavy Machinery
Harvester, Scraper, Dozer, Loader, Excavator