

On-Board Magnetic Sensor Market by Type (Hall Effect Sensors, Magnetoresistive Sensors, Squid Sensors), Magnetic Density (10 Gauss), Vertical, Geography - Global Forecast to 2023

<https://marketpublishers.com/r/OA0AE7B3598EN.html>

Date: May 2018

Pages: 135

Price: US\$ 5,650.00 (Single User License)

ID: OA0AE7B3598EN

Abstracts

“On-board magnetic sensor market estimated to grow at a CAGR of 8.4% between 2018 and 2023”

The overall on-board magnetic sensor market is estimated to be worth USD 1.26 billion in 2018 and expected to reach USD 1.89 billion by 2023, growing at a CAGR of 8.4% between 2018 and 2023. The key factors contributing to the growth of the on-board magnetic sensor market are continuous growth in the use of on-board magnetic sensors for consumer electronics applications and role of on-board magnetic sensors in navigation. However, the inconsistent magnetic field is the key restraints for the growth of the on-board magnetic sensor market. The scope for on-board magnetic sensors in the hybrid and electric vehicles market is the major opportunity for the studied market.

“Hall effect sensors expected to hold largest market size during forecast period”

For most of the consumer electronics and automotive applications, a Hall effect sensor is one of the most apparent choices owing to its noncontacting feature, durability, and robustness to dirt and other environmental contaminants. Thus, Hall effect sensors are expected to hold the leading position in the on-board magnetic sensor market between 2018 and 2023.

“On-board magnetic sensor market in APAC expected to grow at highest CAGR during forecast period”

APAC is expected to be the fastest-growing market. The on-board magnetic sensor market in APAC is divided into India, China, Japan, South Korea, and Rest of APAC. This growth is mainly due to the increasing demand for Hall effect sensors for industrial automation applications in automotive and consumer electronics industries in emerging economies such as China and India. In addition, continuous technological advancements and connectivity of Hall effect sensors with IoT would drive the market growth in APAC during the forecast period.

In the process of determining and verifying the market size for several segments and subsegments gathered through secondary research, extensive primary interviews have been conducted with key industry experts. The breakup of the profiles of primary participants has been given below:

By Company Type: Tier 1—45%, Tier 2—30%, and Tier 3—25%

By Designation: Managers—60% and C-Level Executives—40%

By Region: Americas—45%, Europe—35%, APAC—15%, and RoW—5%

The key market players profiled in this report are as follows:

Asahi Kasei Microdevices (Japan)

Sanken Electric (Allegro Subsidiary) (Japan)

Infineon Technologies (Germany)

TDK Corporation (Japan)

Melexis NV (Belgium)

Murata Manufacturing (Japan)

Honeywell International (US)

TE Connectivity (Switzerland)

AMS (Austria)

NXP Semiconductors N.V. (Netherlands)

Research Coverage:

The report on the on-board magnetic sensor market covers the market segmented on the basis of the following segments: type, vertical, magnetic density, and geography. The market has been segmented on the basis of type into Hall effect sensors, magnetoresistive sensors, SQUID sensors, and others. Based on vertical, the on-board magnetic sensor market has been classified into automotive, consumer electronics, healthcare, aerospace & defense, industrial, and others. The market, on the basis of magnetic density, has been segmented into 1 microgauss, 1 microgauss to 10 gauss, and 10 gauss.

Key Benefits of Buying the Report:

Illustrative segmentation, analysis, and forecast for the market on the basis of type, vertical, magnetic density, and geography have been conducted to give the overall view of the on-board magnetic sensor market.

The value chain analysis is provided to provide an in-depth insight into the on-board magnetic sensor market.

Major drivers, restraints, opportunities, and challenges for the on-board magnetic sensor market have been detailed in this report.

The report includes a detailed competitive landscape and revenue of the key players.

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According to the new market research report "On-Board Magnetic Sensor Market by Type (Hall Effect Sensors, Magnetoresistive Sensors, Squid Sensors), Magnetic Density (<1 Microgauss, 1 Microgauss-10 Gauss, and >10 Gauss), Vertical, Geography - Global Forecast to 2023", the overall on-board magnetic sensor market is estimated to be worth USD 1.26 Billion in 2018 and expected to reach USD 1.89 Billion by 2023, growing at a CAGR of 8.4% between 2018 and 2023. The factors that are driving the growth of this market are the continuous growth in the use of on-board magnetic sensors for consumer electronics applications and role of on-board magnetic sensors in navigation.

Major companies involved in the development of on-board magnetic sensors include

Asahi Kasei Microdevices (Japan)

Sanken Electric (Allegro Subsidiary) (Japan)

Infineon Technologies (Germany)

TDK Corporation (Japan)

Melexis NV (Belgium)

Murata Manufacturing (Japan)

Honeywell International (US)

TE Connectivity (Switzerland)

AMS (Austria)

NXP Semiconductors N.V. (Netherlands)

Automotive vertical expected to hold major share of on-board magnetic sensor market during forecast period

The on-board magnetic sensor market for automotive is expected to hold the largest share by 2023. The aim of the automobile manufacturers to enhance the convenience and safety of drivers and passengers is expected to propel the demand for on-board magnetic sensors in the automotive vertical. In this vertical, on-board magnetic sensors are used in engine positioning, displacement, rotary positioning, linear positioning, timing, and angle sensing application. Moreover, the development of advanced vehicles, such as hybrid vehicles, and the increased production of passenger vehicles are the major factors fueling the demand for on-board magnetic sensors in the automotive vertical.

>10 gauss (BIAS magnetic field sensor) magnetic density expected to hold major share of on-board magnetic sensor market between 2018 and 2023

>10 gauss magnetic density is expected to dominate the overall on-board magnetic sensor market during the forecast period. The automotive segment is the major revenue pocket for the on-board magnetic sensor market. The BIAS magnetic field sensor technology, mainly comprising Hall and GMR sensors, is widely used in automotive applications. The BIAS magnetic field sensor technology also finds applications in the industrial and infrastructure segment in automation equipment, conveyors, packaging equipment, and other applications incorporating motor latches.

On-board magnetic sensor market in APAC expected to grow at highest CAGR during forecast period

On-board magnetic sensors are in high demand in APAC owing to the increasing focus of the region to automotive, consumer electronics, and healthcare verticals. In this study, the on-board magnetic sensor market in APAC has been divided into India, China, Japan, South Korea, and Rest of APAC. China is the largest automotive and consumer electronics manufacturing country in the world. Thus, the fastest growth in APAC will be seen in China mainly due to the applications such as antilock braking systems and central locking systems wherein on-board magnetic sensors are largely used. Moreover, the gaming industry is also booming at a fast rate, which will add to the consumption of on-board magnetic sensors in consumer electronics in the country.

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