

Current Sensor Market by Type (Open Loop and Closed Loop), Current Sensing Technology (Hall Effect, Current Transformer, Flux Gate, and Rogowski Effect), and End Use (Automotive, Consumer Electronics, Industrial, Telecommunication, and Others): Global Opportunity Analysis and Industry Forecast, 2020–2027

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Abstracts

Current sensors, also commonly referred to as current transformers or CTs, are devices that measure current running through a wire by using a magnetic field for detection of the current and generate a proportional output. They are used with both AC and DC current. They are used in various applications such as motor driving circuits and inverter circuits. Current sensors are used in various industries such as automotive, consumer electronics, telecommunication.

Rise in adoption of power management system in data centers for improved efficiency & speed with reduced power expenditure fuel the market demand. The current sensors integrated with backup power systems such as inverters and UPS systems enable protection of battery at the stage of charge and offer efficiency, increase their demand in data centers. Moreover, stringent government regulation in relation to the control of data center power consumption is also one of the major factors that influences the current sensor market growth.

Adoption of industrial robots and increase in trend of hybrid vehicles in the automotive industry drive the current sensor market growth. However, technical issues and high costs associated with current sensors across the globe hamper the current sensor market growth. On the contrary, rapid adoption of 5G technology increases demand for

closed loop current sensors, which is expected to create lucrative opportunities for the current sensor market.

The global current sensor market is segmented on the basis of type, current sensing technology, end use, and region. On the basis of type, the market is bifurcated into open loop and closed loop. By current sensing technology, the market is classified into hall effect, current transformer, flux gate, and Rogowski coil. On the basis of end use, it is divided into automotive, consumer electronics, industrial, telecommunication, and others. Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

The key players that have major global current sensor market share include Infineon Technologies, Honeywell International Inc., Texas Instruments, Allegro MicroSystems, LLC, Tamura Corp., TDK Corporation, LEM International SA, Pulse Electronics, Eaton Corporation PLC, and Sensitec GmbH, which are profiled in this report. The global current sensor industry key market players adopt various strategies such as product launch, product development, collaboration, partnership, and agreements to influence the market growth.

CURRENT SENSOR MARKET SEGMENTATION

By Type

Open loop

Closed loop

By Current Sensing Technology

Hall Effect

Current Transformer

Flux Gate

Rogowski Coil

By End User

Automotive

Consumer Electronics

Industrial

Telecommunication

Others

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Italy

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

Key Companies

Infineon Technologies

Honeywell International Inc.

Texas Instruments

Allegro MicroSystems, LLC

Tamura Corp.

TDK Corporation

LEM International SA

Pulse Electronics

Eaton Corporation PLC

Sensitec GmbH

List of Company Profiles

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