

# **Global Optical Position Sensors in Semiconductor Modules and Chips Market (By Types - One Dimensional, Two Dimensional and Multi-axial. By Application - Aerospace & Defense, Automotive, Consumer Electronics, Healthcare, Others) – Global Industry Analysis, Size, Share, Growth, Trends and Forecast, 2016 – 2025**

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## **Abstracts**

Optical position sensor is the modern technology of the sensor system. The optical position sensors are often used to detect the position of the required target. These types of sensors are highly efficient and can detect the position without any physical contact with the object. The optical position sensors are widely used in semiconductor modules and chips such as in automobiles, consumer electronics, medical devices and aircrafts. The major factor enhancing the growth of optical position sensors is due to the increasing adoption in automotive systems. In automotive industry, the optical position sensors are used to sense the position of pedals, steering wheels, various valves, seat position and actuators. The optical position sensors are advanced technically and assist in determining the position of optical reflection and wiper arm potentiometers. Moreover, the optical position sensor is also being used to sense the driver in case of an accident and according to that release the airbags of the vehicle. Further down, the rise in demand for smart functionalities in smart gadgets are driving the growth of the market for optical position sensors. These factors are assumed to augment the market growth for optical position sensor during the forecast period of 2016-2025.

Optical position sensors offer wide range of benefits to the consumers. These benefits may include better safety to the drivers while driving a vehicle. Moreover increasing use of smart mobile phones leads to a huge market growth opportunity for optical position

sensors. Recently, smart mobile devices are technologically advanced devices that are available at affordable prices due to the highly competitive market. The smart mobile devices are equipped with optical position sensor that is used to enhance the power management of these smart gadgets by sensing the external brightness and according to that adjusting the backlight of the smart device. Moreover, among the types of optical position sensor the multi axial optical position sensor grasps the largest market share due to the increasing demand for automobile safety and also rising demand for smart homes with smart electronic gadgets. Along with this, in automotive industry there is an adoption of optical position sensors in cars and technological advancement are expected to enhance the market growth of optical position sensors over the projection period.

Major applications of optical position sensors in semiconductor modules and chips covered in the report are aerospace and defense, automotive, consumer electronics, healthcare and others. The optical position sensors in semiconductor modules and chips market in the report is segmented by type which is further fragmented into one dimensional, two dimensional and multi axial optical position sensors. The global optical position sensors in semiconductor modules and chips market has been further segmented geographically into North America, Europe, Asia-Pacific, and rest of the world.

Optical position sensor is a new kind of technology and is expected to grow at a high rate with the increase in safety regulations across the globe. Optical position sensors technology will be one of the major trends to gain traction in this market in the upcoming years. Technological advancement in the system causes the rise in demand of this optical position sensor technology in various sectors such as consumer electronics, automotive, healthcare and others. In recent years, the rise in demand of smart devices will certainly augment the market growth of optical position sensors.

Some of the major players in the optical position sensors in semiconductor modules and chips market are First sensors AG, Sharp Corporation, Sensata Technologies, Siemens AG, Panasonic Corporation, Balluff GmbH, Micro Epsilon among others.

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