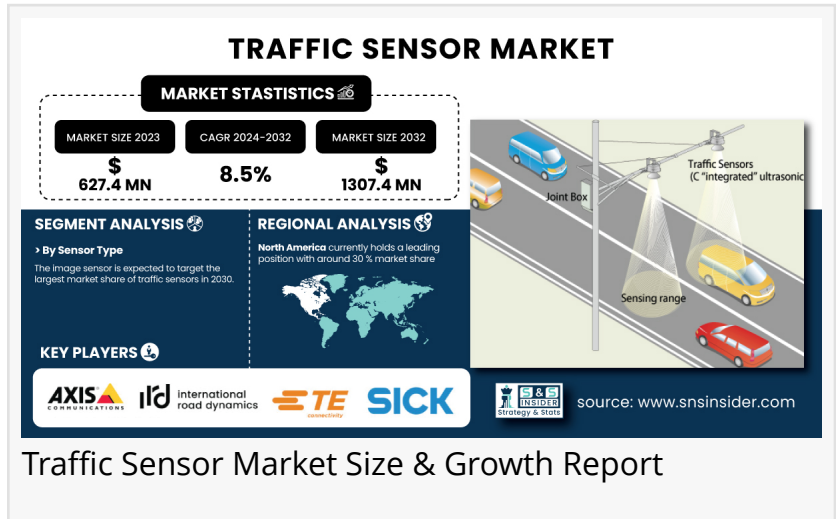


Traffic Sensor Market Set to Reach USD 1307.4 Million by 2032 Driven by Smart Cities and IoT Integration

Market is driven by increasing demand for intelligent traffic management, smart city initiatives, IoT integration, and advancements in sensor technology.

AUSTIN, TX, UNITED STATES, January 28, 2025 /EINPresswire.com/ -- Market Size & Industry Insights

As Per the SNS Insider, "The [Traffic Sensor Market](#) was valued at USD 627.4 million in 2023 and is expected to grow to USD 1307.4 million by 2032, at a CAGR of 8.5% over the forecast period of 2024-2032."



Traffic Sensor Market Size & Growth Report

Smart Traffic Management and IoT Integration Fuel Rapid Growth in the Traffic Sensor Market

The rise in requirement for intelligent and effective traffic management systems is driving the growth of the traffic sensor market. Governments and urban planners are pouring more resources than ever into monitoring, managing, and optimizing traffic flows using technology to reduce congestion, improve safety, and minimize environmental degradation. Real-time data from various roadway sensors inductive loop sensors, radar, infrared, and image-based sensors that provide this data help improve traffic signal timing, and road maintenance schedules and facilitate dynamic toll pricing. This growth is being accelerated by the increasing trend towards smart cities and the connectedness of the urban infrastructure through the Internet of Things (IoT).

Get a Sample PDF of Traffic Sensor Market (with Full TOC & Graphs) @ <https://www.snsinsider.com/sample-request/1886>

SWOT Analysis of Key Players as follows:

- Axis Communication
- International Road Dynamics

- TE Connectivity
- Sick
- Q-Free ASA
- EFKON
- FLIR Systems
- SWARCO
- TransCore
- Raytheon Company
- Kistler Group
- Kapsch Traffic
- Sensys Networks
- Siemens
- LeddarTech
- Raytheon
- Siemens

Growing Vehicle Numbers and Sustainable Solutions Drive Increased Demand for Advanced Traffic Sensor Technology

The growth in the number of vehicles on the road, and the need for sustainable transportation solutions are key factors adding to the growth of advanced traffic sensor technology. As this technology has been expanded for use with autonomous vehicles, there has also been an increasing need for sensors capable of accurately and reliably detecting the various vehicles on the road and collecting related data. It helps track air quality and monitor the road, so these sensors are useful in modern smart cities as well. With cities moving towards more sustainable and real-time solutions, the need for traffic sensors is expected to grow, driven by technology developments and rising investments in smart infrastructure projects.

Image and 2D Sensors Lead Market Growth While 3D Sensors Drive Innovation in Emerging Applications

By Sensor Type: Image sensors will grow considerably during the forecast period from 2024 to 2032 supported by the demand for high-resolution, accurate, and real-time data in multiple applications, especially automotive, security, and consumer electronics sectors. With ADAS and autonomous vehicles becoming the future of the automotive domain, imaging sensors are required to offer accurate visual data to aid in navigation as well as collision avoidance and safety. These sensors are essential for features such as lane keep assist, object detection, and traffic sign recognition, which, in turn, is contributing to considerable demand in the automotive industry.

By Technology: The 2D sensors segment dominated the market in terms of revenue share in 2023, as they are widely used in imaging, security, and automotive systems where they provide low-cost and reliable sensing solutions for various industries.

The 3D sensor segment is projected to expand at the highest radar, driven by the requirement for higher accurate and low-uncertainty data, due to technological developments. With applications ranging from robotics and autonomous vehicles to augmented reality.

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KEY MARKET SEGMENTS:

By Sensor Type

- Bending Plate Sensors
- Piezoelectric Sensors
- Inductive Loop Sensors
- Acoustic Sensors
- Image Sensors
- Lidar Sensors
- Magnetic Sensors
- Infrared Sensors
- Radar Sensors
- Thermal Sensors

By Technology

- RFID
- GSM
- 2D Sensor
- 3D Sensor
- Others

By Application

- Vehicle Measurement and Profiling
- Traffic Monitoring
- Weigh in Motion
- Automated Tolling (E-Toll)

North America Leads Traffic Sensor Market Growth While Asia Pacific Set for Rapid Expansion

In 2023, North America held the largest market share on account of its advanced infrastructure, the early enthusiasm of various industries towards smart traffic management technologies, and massive investments in urban mobility solutions. This market share can be attributed to the strong demand for intelligent transportation systems in the region, along with government initiatives to increase road safety and mitigate traffic congestion.

The Asia Pacific region is projected to witness the fastest development between 2024 and 2032

owing to a rising urbanization level, higher volume of traffic, and the government promoting smart city development. Since major countries such as China, India, Japan, etc., are boosting the modernization of transportation systems, it is anticipated that traffic sensors will quickly be in demand.

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Recent Developments:

-In December 2024, Axis Communications launched two new cameras for traffic surveillance: the AXIS Q1800-LE License Plate Camera and the AXIS Q1800-LE-3 License Plate Verifier Kit.

-In April 2024, TE Connectivity acquired Brazilian sensor manufacturer Sense Eletrônica Ltda, enhancing its industrial automation capabilities. The acquisition strengthens TE's presence in Latin America and accelerates growth in the industrial sensor market.

-In October 2024, FLIR launched the TrafiBot AI camera to enhance interurban traffic flow and road safety, using advanced AI for incident detection. The camera offers high-resolution video, weather-resistant durability, and seamless integration with FLIR's Cascade software.

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