

North America Laser Distance Sensor Market Forecast to 2030 - Regional Analysis - by Distance (Between 2 and 10 Meters, Between 11 and 100 Meters, Between 101 and 200 Meters, and Between 201 and 500 Meters), Accuracy (1 mm at 2 Sigma, 3 mm with 2 Sigma, and 5 mm at 2 Sigma), and End User (Manufacturing, Construction, Automotive and Robotics, Aerospace and Defense, Geospatial Industry, and Others)

<https://marketpublishers.com/r/ND88410BE6C7EN.html>

Date: July 2024

Pages: 92

Price: US\$ 2,485.00 (Single User License)

ID: ND88410BE6C7EN

Abstracts

The North America laser distance sensor market was valued at US\$ 484.20 million in 2022 and is expected to reach US\$ 924.92 million by 2030; it is estimated to register at a CAGR of 8.4% from 2022 to 2030.

Advent of Advanced Robotics Solutions Fuels North America Laser Distance Sensor Market

The advanced and intelligent autonomous mobile robots (AMRs) are autonomous mobile manipulator robots (AMMR) with a robot arm mounted on them. They are increasingly being used for picking up and moving things on a mobile platform in logistics, retail, healthcare, automobile, aerospace, and other sectors, as these robots can recognize objects, pick-and-place, assemble, pack, sort, and perform other tasks without human intervention. As these robots are more costly than the basic AMRs, the market is still in a growing phase. However, the rising adoption of these robots will majorly driven by its rising awareness regarding its benefits such as maximize the efficiency of workflow operation, minimize the error, and increase the productivity output.

AMMRs use sensors that assist mobile robots in calculating distance for the better performance of tasks assigned to them. Laser distance sensors help carry out tasks with advanced distance measurement technologies, which is likely to drive the market in the coming years due to the rise in the adoption of advanced robotics solutions.

North America Laser Distance Sensor Market Overview

The North America laser distance sensor market is segmented into the US, Canada, and Mexico. The market for laser distance sensors is expanding due to the increased demand for laser-based systems and components in metal processing, consumer electronics, and medical equipment. Moreover, laser distance sensors have applications in modern defense systems as laser distance sensors help the military with non-lethal weapons. For instance, in April 2023, the US Department of Defense (DOD) contracted NUBURU to be a part of the multiple award Indefinite Delivery/Indefinite Quantity (IDIQ) contract for the fabrication and delivery of equipment and prototypes to support solid-state high energy laser (HEL) weapon systems.

The laser distance sensor market is growing owing to the mounting demand for precise and effective measurement tools across manufacturing, automotive, and other industries. In addition, these sensors have become essential in the construction and architecture industry. A laser distance sensor uses laser technology to precisely measure distances, making it an essential tool for industry professionals seeking accuracy and efficiency. As the region is rich in the adoption of technical solutions, the rise in the construction industry fuels the laser distance sensor market. For example, according to the US Commerce Department, in August 2023, the US construction industry experienced growth in spending. In June 2023, the construction rose by 3.5% year-on-year.

North America Laser Distance Sensor Market Revenue and Forecast to 2030 (US\$ Million)

North America Laser Distance Sensor Market Segmentation

The North America laser distance sensor market is segmented based on distance, accuracy, end user, and country.

Based on distance, the North America laser distance sensor market is segmented into between 2 and 10 meters, between 11 and 100 meters, between 101 and 200 meters,

and between 201 and 500 meters. The between 11 and 100 meters segment held the largest share in 2022.

In terms of accuracy, the North America laser distance sensor market is segmented into 1 mm at 2 sigma, 3 mm with 2 sigma, and 5 mm at 2 sigma. The 3 mm with 2 sigma segment held the largest share in 2022.

By end user, the North America laser distance sensor market is segmented into manufacturing, construction, automotive and robotics, aerospace and defense, geospatial industry, and others. The automotive and robotics segment held the largest share in 2022.

Based on country, the North America laser distance sensor market is categorized into US, Canada, and Mexico. The US dominated the North America laser distance sensor market in 2022.

Sick AG, ifm Electronic GmbH, Baumer Holding AG, Keyence Corp, Leuze electronic GmbH & Co KG, Pepperl-Fuchs SE, Banner Engineering Corp, and Jenoptik AG are some of the leading companies operating in the North America Laser distance sensor Market.

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