

Global Crane Collision Detection Sensor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Crane Collision Detection Sensor market size was valued at US\$ 300 million in 2025 and is forecast to a readjusted size of US\$ 461 million by 2032 with a CAGR of 6.2% during review period.

In 2025, global production of crane collision detection sensors reached 142,700 units, with an average selling price of US\$2,046 per unit.

Crane collision detection sensors are safety detection and control devices installed on bridge cranes, gantry cranes, port cranes, tower cranes, portal cranes, tire cranes, rail cranes, mobile lifting equipment, or related operating tracks, booms, end beams, spreaders, cabs, and control cabinets. These products utilize laser ranging, lidar, millimeter-wave/industrial radar, ultrasonic, infrared/photoelectric, encoders, GNSS/RTK, wireless communication, area modeling, and control algorithms to identify in real time the distances and relative motion states between cranes, between cranes and end stops, between cranes and fixed obstacles, and between cranes and ships/yards/buildings/restricted areas. Upon reaching warning, deceleration, or stopping thresholds, they output audible and visual alarms, relay signals, bus signals, or safety control commands, thereby reducing collision risks and improving the safety of lifting operations.

From a product roadmap perspective, the industry is evolving from single-point alarms to multi-level control and multi-sensor fusion. Early products were mostly reflective photoelectric, laser ranging, or ultrasonic alarm devices, primarily implementing three levels of functionality: 'proximity alarm, slowing down, and stopping.' Current products

are gradually incorporating LiDAR scanning, millimeter-wave radar, area modeling, digital maps, wireless communication, data logging, and remote diagnostic capabilities. Especially in tower crane and port machinery scenarios, the system needs to calculate in real time the spatial relationships between multiple devices, restricted areas, and risk boundaries. In the long term, declining sensor hardware prices will compress the gross profit margin of ordinary bridge collision avoidance kits, but high-reliability outdoor radar, port crane LiDAR systems, functional safety certified controllers, and tower crane cluster algorithms will still possess high technological premiums. The average gross profit margin for crane collision detection sensors is 18.23%, with a single production line capacity of 20,000-30,000 units per year.

This report is a detailed and comprehensive analysis for global Crane Collision Detection Sensor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Crane Collision Detection Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Crane Collision Detection Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Crane Collision Detection Sensor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Crane Collision Detection Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Crane Collision Detection Sensor

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Crane Collision Detection Sensor market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SICK AG, Columbus McKinnon, AMCS Technologies, SMIE, Banner Engineering Corp., Hokuyo Automatic Co., Ltd., Konecranes Plc, Symeo GmbH, LASE Industrielle Lasertechnik GmbH, Laser-View Technologies, Inc., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Crane Collision Detection Sensor market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Laser Rangefinder Sensor

Millimeter-Wave Radar Sensor

Vision/Camera Sensor

Market segment by Detection Distance

?1m

1m?5m

5m?30m

30m?60m

?60m

Market segment by Measurement Frequency

?10Hz

10Hz?50Hz

50Hz?100Hz

?100Hz

Market segment by Application

Ports and docks

Construction machinery

Building construction

Iron and steel metallurgy

Other

Major players covered

SICK AG

Columbus McKinnon

AMCS Technologies

SMIE

Banner Engineering Corp.

Hokuyo Automatic Co., Ltd.

Konecranes Plc

Symeo GmbH

LASE Industrielle Lasertechnik GmbH

Laser-View Technologies, Inc.

Duct-O-Wire Company

RaycoWylie Systems

ABUS Kransysteme GmbH

Zoomlion Heavy Industry Science & Technology Co., Ltd.

WEITE Technologies Co., Ltd.

Manitowoc

E-Build Innovations

Chengdu Xintai Gaoke Technology Co., Ltd.

Jiangxi Feida Electrical Equipment Co., Ltd.

Kemuchina Intelligent Technology Co., Ltd.

Xuzhou Huakong Electromechanical Technology Co., Ltd.

Sichuan Xereno IoT Technology Co., Ltd.

Nanjing Hanchuang Intelligent Technology Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Crane Collision Detection Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Crane Collision Detection Sensor, with price, sales quantity, revenue, and global market share of Crane Collision Detection Sensor from 2021 to 2026.

Chapter 3, the Crane Collision Detection Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Crane Collision Detection Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Crane Collision Detection Sensor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Crane Collision Detection Sensor.

Chapter 14 and 15, to describe Crane Collision Detection Sensor sales channel, distributors, customers, research findings and conclusion.

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