

Global Crane Collision Detection Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Crane Collision Detection Sensor market size is expected to reach \$ 461 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

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 studies the global Crane Collision Detection Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Crane Collision Detection Sensor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Crane Collision Detection Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Crane Collision Detection Sensor total production and demand, 2021-2032, (K Units)

Global Crane Collision Detection Sensor total production value, 2021-2032, (USD Million)

Global Crane Collision Detection Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Crane Collision Detection Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Crane Collision Detection Sensor domestic production, consumption, key domestic manufacturers and share

Global Crane Collision Detection Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Crane Collision Detection Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Crane Collision Detection Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Crane Collision Detection Sensor market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Crane Collision Detection Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Crane Collision Detection Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Crane Collision Detection Sensor Market, Segmentation by Type:

Laser Rangefinder Sensor

Millimeter-Wave Radar Sensor

Vision/Camera Sensor

Global Crane Collision Detection Sensor Market, Segmentation by Detection Distance:

?1m

1m?5m

5m?30m

30m?60m

?60m

Global Crane Collision Detection Sensor Market, Segmentation by Measurement Frequency:

?10Hz

10Hz?50Hz

50Hz?100Hz

?100Hz

Global Crane Collision Detection Sensor Market, Segmentation by Application:

Ports and docks

Construction machinery

Building construction

Iron and steel metallurgy

Other

Companies Profiled:

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.

Key Questions Answered:

1. How big is the global Crane Collision Detection Sensor market?
2. What is the demand of the global Crane Collision Detection Sensor market?
3. What is the year over year growth of the global Crane Collision Detection Sensor market?
4. What is the production and production value of the global Crane Collision Detection Sensor market?
5. Who are the key producers in the global Crane Collision Detection Sensor market?
6. What are the growth factors driving the market demand?

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