

NexBot Robotics 332-009

Laser Safety Scanner 5.5m Protection Field

NexBot Robotics

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> Proximity & Safety Sensors > Laser Safety Scanners

Overview

The NexBot Robotics 332-009 is a compact, high-performance laser safety scanner designed to protect personnel and equipment in dynamic industrial environments. This device provides non-contact monitoring of user-defined hazardous areas, making it an essential component for modern robotic cells, automated guided vehicles (AGVs), and machine guarding applications. The core feature of the 332-009 is its ability to create flexible, software-defined protective fields. It boasts a substantial 5.5-meter safety field range and a wide 275° scan angle, ensuring comprehensive coverage with minimal blind spots. This wide angle often reduces the number of devices needed to secure a single area, simplifying installation and lowering total system cost. In addition to the safety field, it supports a warning field up to 20 meters, enabling a two-stage response where machinery can be programmed to slow down upon entry into the warning zone and perform a safety-rated stop upon breach of the protective zone. Engineered for reliability in demanding factory conditions, the scanner is housed in a rugged die-cast aluminum body with an IP65 rating, protecting it from dust ingress and low-pressure water jets from any direction. Its compact design allows for versatile mounting options without obstructing workflow. Configuration is performed via intuitive software, allowing users to define up to 32 distinct, switchable field sets to adapt to changing operational requirements, such as those involving mobile robots or indexing tables. The device utilizes dual OSSD (Output Signal Switching Device) outputs for failsafe integration with safety control systems. Diagnostic data and field status can be accessed over its integrated EtherNet/IP interface, facilitating advanced system monitoring and preventative maintenance.

Technical Specifications

Parameter	Value	Unit
Weight	1.2	kg
Material	Die-cast Aluminum	
Voltage	24VDC	
IP Rating	IP65	
Country of Origin	JP	
Protocol	EtherNet/IP	

Parameter	Value	Unit
Dimensions	105 x 102 x 152 mm	

Safety Notice: This product must be installed and operated by qualified personnel in accordance with applicable safety standards (ISO 10218, IEC 61508).