

# NexBot Robotics NET533-005 Fieldbus Connector M12 D- Coded

NexBot  
Robotics

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## Overview

The NexBot Robotics NET533-005 is a high-reliability M12 D-Coded fieldbus connector engineered for seamless integration within industrial automation and robotic systems. This component provides a secure and stable physical interface for high-speed data networks, which is critical for maintaining real-time control and monitoring of robotic assets. Its primary function is to establish a dependable connection point for field devices, sensors, and actuators back to the main robot controller or a distributed I/O block. The key to its performance in demanding industrial settings is its rugged construction. The connector features a nickel-plated brass housing that provides excellent resistance to corrosion, physical impact, and electromagnetic interference (EMI), ensuring signal integrity is maintained. With an ingress protection rating of IP67, the NET533-005 is fully protected against dust ingress and can withstand temporary immersion in water. This makes it an ideal choice for applications in washdown environments, or facilities with high levels of dust, oil, and moisture. The M12 D-Coded interface is specifically designed for Industrial Ethernet protocols, supporting data transmission rates of up to 100 Mbit/s. This bandwidth is sufficient for protocols like PROFINET and EtherNet/IP, commonly used in modern robotic cells for applications such as automated assembly, robotic welding, and high-speed pick-and-place operations. The secure screw-locking mechanism prevents accidental disconnection caused by machine vibration, a common point of failure for less robust connectors. Installation is streamlined for field serviceability, featuring screw terminals for quick and reliable wire termination without the need for specialized crimping tools. By specifying the NET533-005 connector, you ensure that the communication backbone of your robotic system is built on a foundation of reliability and performance.

## Technical Specifications

Parameter	Value	Unit
Weight	0.05	kg
Material	Nickel-Plated Brass	
Voltage	60V	
IP Rating	IP67	
Country of Origin	CH	
Protocol	PROFINET	

Parameter	Value	Unit
Dimensions	45 x 15 x 15 mm	

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