

05 ELECTRONIC COMPONENTS

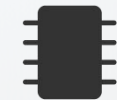
Control System Parts for Construction Machinery

Electronic components are the neural core of modern construction machinery, enabling precise signal transmission, intelligent regulation, and fault monitoring. From sensors capturing real-time data to controllers executing complex commands, each part ensures the stability and efficiency of heavy equipment in harsh working environments.



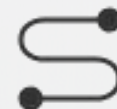
SENSING MODULES

High-precision sensors collect positional, pressure, and temperature data, converting physical signals into electrical impulses for real-time system feedback.



CORE CONTROLLERS

Industrial-grade PLC and MCU units process input data, execute pre-programmed logic, and issue commands to hydraulic and drive systems for accurate operation.



COMMUNICATION BUS

CAN and Ethernet protocols enable seamless data exchange between components, supporting remote monitoring and diagnostic capabilities for fleet management.

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01 / Company Profile

Overview of our enterprise philosophy, core values, and developmental journey in the industry.



02 / Product List

A detailed catalog of our flagship products, showcasing the range and versatility of our industrial offerings.



03 / Technical Specifications

Comprehensive parameters and engineering standards that define the performance and reliability of our solutions.



04 / Product Features

Key advantages and innovative highlights that set our products apart in the competitive market landscape.



05 / Applications

Diverse scenarios and industrial sectors where our products deliver exceptional value and practicality.



06 / Contact Us

Reach out to our professional team for inquiries, collaborations, and personalized service support.

COMPANY PROFILE

CHANGSHU YE LU SING FIRM is a professional supplier of high-quality electronic components for construction machinery control systems, dedicated to delivering cutting-edge solutions that meet the rigorous demands of the industry.



HARSH ENVIRONMENT READY

Our components are engineered to endure extreme temperatures, vibration, and dust, ensuring stability in the toughest construction scenarios.



UNCOMPROMISED RELIABILITY

Rigorous testing and precision manufacturing guarantee consistent, fail-safe performance, minimizing downtime and maximizing operational efficiency.

PRODUCT SHOWCASE

All electrical spare parts inquiry could contact with us



PRODUCT LIST



Pressure sensors

High-precision transducers for industrial process monitoring and control systems.



Solenoid valves

Durable electromechanical valves for fluid and gas flow control in automation systems.



Temperature sensors

Reliable thermocouples and RTDs for accurate temperature measurement in harsh environments.



Control panels and displays

Custom HMI interfaces and rugged enclosures for operational monitoring and control.



Level sensors

Advanced ultrasonic and capacitive sensors for continuous and point level detection.



PLC, switches & connectivity

PLC controllers, proximity switches, high-grade connectors and industrial cabling solutions.

Comprehensive industrial components engineered for reliability, precision, and seamless integration in heavy-duty applications.

TECHNICAL SPECIFICATIONS



WORKING VOLTAGE

12 VDC / 24 VDC dual voltage input support for versatile industrial applications.



OPERATING TEMPERATURE

Wide range of -40°C ~ $+85^{\circ}\text{C}$ ensures reliable performance in extreme environments.



PROTECTION GRADE

IP65 / IP67 certified for complete dust-tight and water-resistant operation.



CERTIFICATION & QUALITY

Fully compliant with CE and ISO 9001 standards, ensuring the highest level of manufacturing quality and safety compliance for global markets.



SHOCK & VIBRATION RESISTANCE

Exceptional durability with 10g shock resistance and 50g vibration resistance, ideal for rugged transportation and industrial machinery use.

PRODUCT FEATURES



High Precision & Stability

Engineered to deliver consistent, ultra-precise performance across varying operational conditions, ensuring minimal deviation and reliable output in critical applications.



Shock & Vibration Resistance

Robust internal construction and reinforced mounting systems provide exceptional durability against mechanical shocks, vibrations, and rough handling in industrial environments.



IP-Rated Protection

Sealed waterproof and dustproof housing safeguards internal components from harsh elements, ideal for outdoor and demanding settings.



Easy Installation

Tool-free assembly and modular design enable quick setup and hassle-free replacement, minimizing downtime for maintenance and upgrades.



Long Lifespan

Utilizes high-grade materials and wear-resistant parts for an extended operational life, ensuring sustained performance and reduced replacement costs.

APPLICATIONS



Rotary Drilling Rigs

Advanced control systems for precision drilling operations, ensuring stability and efficiency in challenging geological conditions.



Excavator Electronics

Integrated electronic systems for hydraulic management, operator assistance, and real-time performance optimization.



Crane Control Units

High-precision control modules for load management, anti-sway technology, and safe lifting operations at extreme heights.



Construction Machinery Monitoring

Comprehensive telematics and sensor networks that track health, fuel consumption, and operational data for proactive maintenance and fleet management.



Heavy Equipment Automation

Cutting-edge autonomous and semi-autonomous solutions that reduce human error, enhance productivity, and improve safety in hazardous work environments.

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