Successful Electrical Engineering and Automation
Phoenix Contact stands for the sustainable creation of a successful and trusting partnership with its customers and partners. This partnership has been the base for the development of a multitude of high-quality and trendsetting products for decades. The product range offers reliable components, systems and solutions for a great variety of applications in electrical engineering and automation. For customers, the use of these products means a high standard of their own applications, and thus creates a clear competitive advantage for them.

Phoenix Contact is an international operating company with almost 50 subsidiaries, more than 30 sales partners and about 10,000 employees worldwide.

Independence is an integral part of the corporate policy and culture. Phoenix Contact therefore places great importance on home-grown competence and expertise:

In construction and development departments, innovative product ideas are constantly put through the steps to design special solutions according to customer requirements.

Countless patents are proof that many products from Phoenix Contact are the result of our internal developments.
Products and solutions for your success

Whenever you want to solve tasks in the field of electrical engineering and automation – Phoenix Contact is the right partner for you!
Take a look at our broad and innovative range of products. You obtain high-quality components, efficient systems and application-specific solutions. Take a look at the following pages to see what you can expect from us.

Products and solutions for your control cabinet

Products and solutions for your field installation

Products and solutions for your devices
Products and solutions for your control cabinet

The innovative products and solutions from Phoenix Contact help you in structuring and planning control cabinets. Whether you are looking for terminal blocks or controllers, we have a comprehensive range of individual components that comprises everything right down to pre-assembled terminal strips.

The range is topped off by planning software, uniform marking and professional tools for wiring.

**Wiring and switching**

The right connection system for every application. Modular terminal blocks with screw, spring-cage, push-in, fast and bolt connection technology for reliable wiring. The uniform accessories provide high flexibility and reduce logistics costs.

Coupling relays with push-in technology for easy and convenient wiring from the controller to the sensor/actuator level.

Pre-assembled cables and suitable adapters for the fast and easy cabling of systems.
<table>
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<th>Supply</th>
<th>Protecting systems and devices</th>
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<td>Power for maximum system availability</td>
<td>Secure devices easily using circuit breakers and ensure high system availability through restartability and clear status display.</td>
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<td>- With innovative technology for maximum functionality</td>
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<td>- For basic applications at the highest level</td>
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<td>- For MCR technology</td>
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<td>- Compact, energy-efficient and optimized for building technology</td>
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<th>Mounting, installing and testing</th>
<th>Planning and marking</th>
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<tr>
<td>Professional, high-quality tools for cutting, stripping, crimping, screwing and testing are impressive due to their consistent excellent work results.</td>
<td>Optimally aligned software and hardware enable a better overview as well as safe and target-oriented work at the control cabinet. The software combines terminal strip project planning with a high-performance marking tool and controls several printer systems easily with the mouse. A wide range of terminal, conductor and device marking is available for flexible printing.</td>
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<td>Pre-assembled cables are led into control cabinets and housings with the help of the cable entry system for standard panel cutouts such that space is saved.</td>
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<tr>
<td>Assembly and installation material enables the flexible and optimum utilization of space in the control cabinet.</td>
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Products and solutions for your control cabinet

**Isolating, converting, amplifying and filtering**

Test disconnect terminals in screw, spring-cage and push-in connection for easy and individual structuring of current transformer measuring sets.

Current converter range with 3000 variants, available in the range from 1 A to 4000 A AC.

Analog signal isolators can electrically isolate and convert analog signals as well as record temperatures and switch threshold values only from a width of 6.2 mm. They are available with high-precision behavior for the Ex and non-Ex areas with a comprehensive approval package (ATEX, SIL, etc.).

A separate mains interference filter ensures clean data and signals. HF and LF interference frequencies are efficiently removed from the useful signal.
**Easy automation**

- Compact controllers for cost-effective entry into modern automation technology. Easy module selection for customer-specific system solutions.

**Industrial networking**

- Infrastructure components from hubs to modular managed switches
- Expand networks safely with wireless modules via Bluetooth or WLAN
- Protect, connect and remotely control networks with high-performance security routers
- Integrate serial devices into the existing network easily with the COM server
- Increase the range and immunity to interference using fiber optic technology

**Switching and protecting motors**

- Switch motors using hybrid motor starters reliably and without wear
- Switch motors using solid-state contactors quickly and without wear
- Protect motors and systems from critical overload or underload using the motor manager

**Functional safety**

- Safety relays available for all common central tasks, optionally also as a modular safety system
- Realize all safety functions of a machine or system with just one safety switching device using configurable modules
- Decentral safety technology for an easy integration of functional safety without a safety PLC
For you as a machine or system manufacturer, the challenge is how to save even more time and money during installation.

Independent of how you design your system concept, Phoenix Contact offers you a comprehensive, wide and innovative range of I/O systems and industrial connectors for the IP6X world – with the option of EMC shielding as well.

Thanks to our comprehensive knowledge of the market, years of experience in I/O communication and expertise in the field of industrial plug-in connections, we are one of the leading companies in this field.

### Products and solutions for your field installation

#### Acquiring decentral I/O signals

- Decentral wired and wireless signal acquisition with M8 and M12 connection technology
- Flexible and easy connection to virtually every network

#### Collecting I/O signals in extreme environments

- Decentral signal acquisition in rough IP65/67 environments directly at the machine
- Application in heavy electro-magnetic environments thanks to fiber optic technology
**Sensor and actuator cabling**

A complete range for sensor/actuator cabling with M5, M8 and M12, comprising cables, customizable connectors and distributor boxes – everything with IP65/67 protection.

**Data transmission**

Connectors, flush-type connectors and cables for fieldbuses and networks with P20 and IP65/67 protection.

**Connecting motors**

M16 to M58 device, cable and coupling connectors up to 150 A

**Distributing signals and power**

Connectors, flush-type connectors and cables for fieldbuses and networks with IP20 and IP65/67 protection.

Modular plug-in connector system for flexible power distribution of 7 x 4.0 mm², 690 V/25 A with screw connection with IP65/67 protection.

Circular connector range for power distribution of 4 x 2.5 mm², 690 V/20 A with IDC quick connection with IP68 protection.
Products and solutions for your devices

The range of services for device production extends from PCB connection technology to suitable electronic housings through to complete individual solutions.

The PCB connection technology with screw, spring-cage or IDC fast connection is available in all conceivable designs and colors.

Suitable electronic housings are manufactured to customer requirements, including the connection system.

Device connection technology – Data

Data connectors for networks and fieldbuses with IP67 protection

- VARAN
- INTERBUS
- PROFIBUS
- CANopen
- DeviceNet
- AS Interface
- CC link
- FOUNDATION Fieldbus
- PROFINET
- Ethernet
- Ethercat
- Sercos

Miniature connectors for Ethernet with IP20 protection
Device connection technology – Power

Appliance connectors with modular contact system with IP65/67 protection

High-current feed-through terminal blocks with universal screw, easy push-in and rugged bolt connection

PCB terminal blocks and connectors for power electronics up to 125 A

Device connection technology – Signals

PCB terminal blocks and connectors for the MCR technology as well as for building automation

Electronic housings for industrial electronics and semi-industrial applications

Flush-type connectors and assembly connectors from M5 to M58 for sensor/actuator applications
Further information on the products presented here and on the world of solutions from Phoenix Contact can be found at www.phoenixcontact.net/catalog

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