Device connections for building automation

Building Intelligence with smart device connection technology
Device connection trends in Smart Buildings

Building Intelligence is also changing device connection. In Smart Buildings, different applications need to be networked in a distributed way. To achieve this, standardized device connections are required so that the individual building systems and their applications can communicate with each other quickly and easily. Phoenix Contact solutions enable you to secure your long-term competitive edge in building automation.

Your advantages

☑ Smart networking: thanks to corresponding data connectors
☑ Comprehensive product portfolio: everything from a single source
☑ Better than the standard: individual device designs
☑ Shorter development times: with excellent services

Web code: #2917
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Find out more with the web code

For detailed information, use the web codes provided in this brochure. Simply enter # and the four-digit number in the search field on our website.

Web code: #1234 (example)

Or use the direct link: phoenixcontact.net/webcode/#1234
Easier work for everyone – thanks to smart device connections

You value quality, safety, and technological progress. With the intuitive connection and housing systems from Phoenix Contact, your devices are optimally equipped for the needs and requirements of your customers, today and in the future. Phoenix Contact solutions enable you to secure your long-term competitive edge in building automation. On the following pages, you will always find the right solution for a wide range of applications.
1 HVAC technology
2 Communication technology
3 Shading and facade

4 Building control
5 Charging points
6 Fire protection technology

7 Energy management
8 Elevator technology
9 Photovoltaics and energy storage

10 Lighting technology
11 Safety technology
Networking HVAC technology made easy

As part of the technical building utilities, heating, ventilation, and air conditioning systems have a huge influence on the functionality, efficiency, and comfort of a building. PCB connections and electronics housings from Phoenix Contact ensure the safe transmission of signals, data, and power, as well as reliable process automation.
Solutions for confined spaces
PCB terminal blocks from the SPT and SPTA product series are suitable for small wiring spaces. The THR versions enable process-reliable and cost-effective assembly.

Solutions for difficult to reach sensors
With the COMBICON PCB connectors from the PTS series, you can connect devices easily and conveniently, even in difficult to reach applications.

Solutions for compact system controls/DDC
The electronics housings from the BC modular series offer even more flexibility and functionality, from Push-in connection to device operation via touch display.
High availability of monitoring and safety technology easily guaranteed

In order to ensure permanent and safe building operation, the monitoring and safety technology must be easy to install and maintain. Phoenix Contact offers numerous solutions for safety-critical applications in building technology, such as camera and access control systems, escape door controls, and intrusion detection systems.
Reliability for emergency lights
COMBICON PCB connectors from the PTS CLIP series with Push-in connection technology are particularly suitable for emergency lights.

Durability for surveillance cameras
When it comes to the transmission of signals and data, you can rely on the high quality and durability of Phoenix Contact connection technology.
Precision for fire protection technology

High degree of safety and precise communication: device connection solutions from Phoenix Contact not only make it easier for you to install devices and systems in fire alarm systems, but also ensure the transmission of life-saving information and signals.
Connect smoke alarms easily and safely
Phoenix Contact offers standard and customer-specific connection solutions for fast maintenance and revision.

High quality for smoke extraction systems
The SPT and SPTA series versions for the reflow process ensure the cost-effective assembly of your components.

Easy cascading of smoke extraction controls
Modular electronics housings with DIN rail connector are particularly suitable for cascading modules. This saves you time-consuming cabling effort.
Future-proof building communication

Networking all trades on the different interfaces provides the basis for permanent and efficient building operation. That is why device manufacturers around the world value smart solutions and the excellent level of service provided by Phoenix Contact.
New technologies for switches
At Phoenix Contact, we focus on new technologies. Single Pair Ethernet (SPE) can be used to cover distances of up to 1,000 m in building technology applications using copper cables.

Diversity for gateways
In order for the communication between trades to work, gateways must serve different interfaces such as RJ45, SPE, coaxial, HDMI, USB, or D-SUB.
Solutions for smart energy management

Energy efficiency is a real economic success factor. Climate protection is a more global issue than ever before, and one that companies must actively address. Phoenix Contact offers a broad portfolio for smart energy management solutions.
Flexible design for energy measurement and management systems
The ME-IO system housing optimally satisfies the individual requirements of energy and management systems.

Convenient connections for heat meters
Make installation and revision easier for your customers with fast, intuitive Push-in connections and data connectors.
Smart design of building controls

In Smart Buildings of the future, intelligent and networked IoT devices are the basis for efficient and carbon-neutral operation. Phoenix Contact already supports you in the design-in phase of your development projects with tools, excellent services, and the crucial components. This is how your solutions meet the requirements of tomorrow.
Smart features for building controls
The BC modular housing series offers everything that modern building controls require, from touch displays to high-speed data connections.

Perfection for two-piece room operating units
For applications with two-piece housings, the PTS CLIP series enables quick and easy device installation.
Consistent solutions for lighting systems

Demanding tasks in warehouses or outdoor areas require robust yet easy-to-install connectors. With Phoenix Contact, you always have a strong partner for your solution by your side.
Luminaires with high demands
With the PRC product series, Phoenix Contact offers a smart portfolio for luminaire manufacturers who do not settle for anything but the best.

LED module connection in a minimum amount of space
With the PTSM series, it couldn’t be easier to install LED modules – even in confined spaces.

Modular housings for light controls
The new BC modular electronics housings offer even more flexibility, sophisticated design, and functionality for light controls.
Reaching new heights of technology with the elevator

Whether an existing or new building, it goes without saying that you value high quality and reliability in the manufacture of your devices and components. With modern connection technology and electronics housings from Phoenix Contact, your solutions are always at the cutting edge of technology – today and in the future!
Elevator control in a compact design
By combining modern lever or Push-in connection technology with BC electronics housings, solutions are available for the challenges presented in confined spaces.

Fast and safe connection of frequency converters
With the modern spring connection technologies of the SPTA or LPTA series, frequency converters can be wired with long-term stability in no time at all.
Shade always perfectly regulated

With the right positioning of the slats, natural light enters the room without heating it up too much. Your shading systems contribute to the comfort and energy efficiency of buildings every single day. Phoenix Contact supports you with smart device connections and modular electronics housings for indoor and outdoor use.
Compact connections for window covering drives
The SPTA series versions for the reflow process ensure the cost-effective assembly of your SMI modules for window covering drives.

Window covering controls and actuators in smart design
By combining Push-in connection technology with BC electronics housings, controls can be installed in unbeatable time.
Clever connection solutions for photovoltaic and energy storage systems

From the photovoltaic panel and the string combiner box to the inverter: Phoenix Contact offers numerous connection solutions that are perfectly tailored to the requirements of photovoltaic systems and energy storage systems. These were designed with durability and quick and easy installation in mind.
Flexibility for photovoltaic panel connection
Cable photovoltaic systems easily and reliably with SUNCLIX connectors. The versions with crimp connection are ideal for automated manufacturing processes.

Connection convenience for inverters
Install modules quickly, conveniently, and safely for voltages up to 1,500 V, even in confined connection situations.

Variety of solutions for energy systems
Connection solutions for energy storage and hybrid inverters for efficient integration of solar systems and maximizing self-consumption.
Installation, startup, and maintenance of charging points made easy

The modular design of electronics housings and tool-free lever Push-in connection technology ensure the easy installation, startup, and maintenance of your components.
Power distribution for home charging stations
With installation connectors from the PRC series, home charging stations can be connected in no time at all. With high degrees of protection up to IP69, reliable power distribution is ensured even under demanding environmental conditions.

Variety of solutions for charge controllers
The ME-IO family of electronics housings optimally adapts to the technical requirements. It integrates Push-in connection technology, bus connectors, or a touch display in a modern look.

Fast connection for home charging stations
With the LPT and LPC product series, intuitive and fast installations are possible — conductor connection is completely tool-free.
Our portfolio in detail

Smart device connections make work easier for everyone – from electrically skilled persons to the operating company. PCB connections and electronics housings from Phoenix Contact ensure the safe transmission of signals, data, and power, as well as reliable automation.
Product overview

**PCB terminal blocks**
Reliable conductor connection for transmitting signals, data, and power.

*Web code: #0391*

**PCB connectors**
Reliable connectors for conductor connection on the PCB.

*Web code: #0425*

**Board-to-board connectors**
Safe data transmission between PCBs up to 20 Gbps.

*Web code: #2070*

**High-current feed-through terminal blocks**
Panel feed-throughs for power connections up to 232 A.

*Web code: #0456*

**Lever connection technology**
Intuitive and tool-free device connection.

*Web code: #1833*

**HDMI and USB connectors**
Safe data transmission for media technology.

*Web code: #2924*

**Connectors for Single Pair Ethernet**
Advanced networking of building technology.

*Web code: #2240*

**RJ45 connectors**
Optimal networking of building technology.

*Web code: #2861*

**V6 and V14 connectors**
Robust Ethernet components for field use.

*Web code: #2922*
Product overview

**FO-based data connectors**
Flexible and consistent networking with fiber optics.

*Web code: #2921*

**FO distributor solutions**
FO distributor boxes for demanding environments.

*Web code: #2923*

**Coaxial connectors**
Optimal transmission of HF signals.

*Web code: #2890*

**D-SUB connectors**
Proven cabling for serial and parallel interfaces.

*Web code: #2860*

**Photovoltaic connectors**
Connection technology for PV systems.

*Web code: #0353*

**Connectors for energy storage**
Connection technology for busbars and battery poles.

*Web code: #2514*

**Installation connectors**
Connection technology for power distribution.

*Web code: #2948*

**BC modular electronics housings**
Housings for compact controllers.

*Web code: #0310*

**ICS modular electronics housings**
Housings for energy and safety technology.

*Web code: #1636*
ME-IO multifunctional housings
Housings for building automation.
Web code: #0308

ME MAX multifunctional housings
Housings for energy and safety technology.
Web code: #0903

ME multifunctional housings
Housings for energy and safety technology.
Web code: #0305

ECS outdoor housings
Housings for harsh conditions.
Web code: #0857

UCS universal housings
Housings for universal use.
Web code: #0853

Customer-specific electronics housings
Housings for individual requirements.
Web code: #0685
New customer-specific product developments

You have a challenge, we have the solution. We will support you throughout the product lifecycle, from the initial idea right through to the realization of your connection or housing solution. Our experience, built up over many years, guarantees that each new development will meet stringent market requirements.

Whether you are looking for special designs or complex electromechanical system solutions, Phoenix Contact will develop your tailored product using processes that have been proven many times over. Shape the innovations of tomorrow with us.

Your advantages

- Expert consultation on product requirements
- Detailed design of your desired concept
- Development of the ideal production concept
- Product qualification at our in-house laboratory
- Certification of the solution for your application
- Targeted project management right through to the start of series production
From the initial idea right through to series production

Preliminary clarification
Talk to us as your partner who understands the requirements and speaks your language. In the shortest time, we will provide you with:
• Personal consultation with experienced development engineers
• Joint technology workshops
• A technical concept, with inspection samples as an option
• A non-binding quotation

Conceptual design
Together, we will develop the optimal solution for your product in accordance with your specific requirements. Take advantage of the benefits of our proven conceptual design sequences:
• Coordinated and approved technical specification
• Regulated test plan, including laboratory tests and approvals
• Comprehensive documentation

Production-ready
Decades of experience and locations throughout the world enable flexible and absolutely reliable development sequences. Benefit from working with Phoenix Contact through:
• High-level development and laboratory expertise
• Simultaneous engineering
• Standardized project management and quality assurance
• Application-specific standards and approvals

Production and logistics
We guarantee that your products will always arrive on time and in accordance with processes – regardless of batch quantity. Your advantages:
• High-level vertical integration and in-house tool shop and machine building facilities
• Flexible production planning, from manual assembly right through to mass production
• Customer-specific identification and packaging
• Global production and logistics network

Product lifecycle
Whether you are developing your products further, changing technical details, or want to discontinue them, we will accompany you throughout the entire product lifecycle:
• Certified quality and environmental management
• Holistic approach to the entire value added chain
• One contact person throughout the entire product lifecycle

Contact
Contact us at
Email: dcsolution@phoenixcontact.com

Web code: #2929
Excellent services

Along your development process, Phoenix Contact offers excellent services that make a difference. Discover how modern configurators, comprehensive technical data, and free product samples can make your daily work easier. As your partner, we will support you in the design-in process all the way to the development of customized connection and housing solutions.

The easy way to more choice
Choose online from 60,000 products and find the right solution quickly:
• Intuitive filter and search functions
• Comprehensive technical data and downloads such as drawings and 3D models
• Personal on-site consultation

The easy way to more individuality
Customize your products with colors, printing, and special designs:
• Customer-specific versions
• Customized new products
• Intuitive online configurators

The easy way to more flexibility
Use our different procurement channels and benefit from worldwide availability:
• All products can easily be ordered online
• Free online sample service
• Globally reliable logistics through direct shipping or distribution

The easy way to more expertise
Always stay up to date on technologies and trends with us as your reliable partner:
• Technology, industry, and design-in experts at your side
• We will provide you with custom training programs – either on site or digitally
• Free webinars, seminars, and video tutorials

Further information on Phoenix Contact services:
Simply enter the web code in the search field on our website.

Web code: #2594
Simple selection with filters and technical data

There is a separate detail page for every product

A data sheet is available to download for every item

With our global network, Phoenix Contact is always nearby

Device connection technology can be comprehensively configured

Housing parts and connection technology are easy to configure

Cable and assembly systems can be configured easily

Phoenix Contact supports you from the initial idea right through to series production

The online sample service is available in a large number of countries

Find the desired product quickly with intuitive filters

Product samples are available with free shipping

Reliable logistics worldwide

Keep up to date on new products, trends, and technologies

We will provide you with custom training programs – either on site or digitally

Stay updated via Phoenix Contact apps and the Phoenix Contact YouTube channel

Remain reliably updated with the Phoenix Contact newsletter
Open communication with customers and partners worldwide

Phoenix Contact is a global market leader based in Germany. We are known for producing future-oriented products and solutions for the electrification, networking, and automation of all sectors of the economy and infrastructure. With a global network reaching across more than 100 countries with over 20,000 employees, we maintain close relationships with our customers, something we believe is essential for our common success.

Our wide range of innovative products makes it easy for our customers to implement the latest technology in a variety of applications and industries. This especially applies to the target markets of energy, infrastructure, industry, and mobility.

You can find your local partner at

phoenixcontact.com