



NEW PRODUCTS

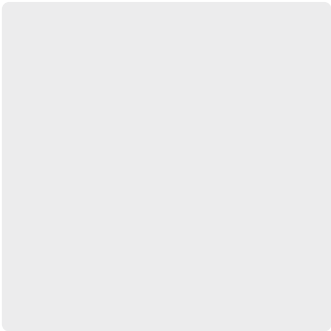
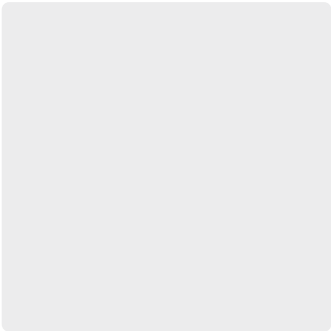
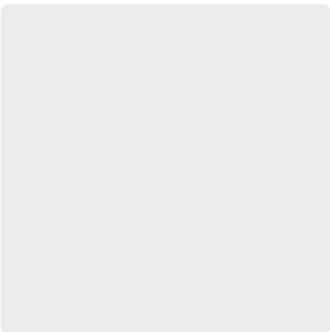
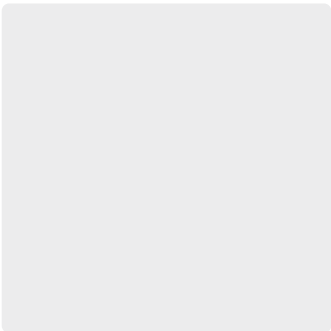
Issue 4/2026

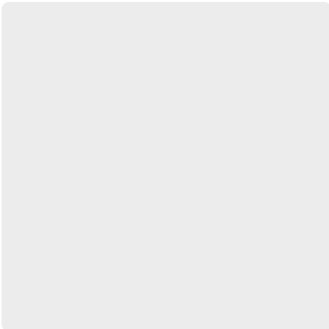
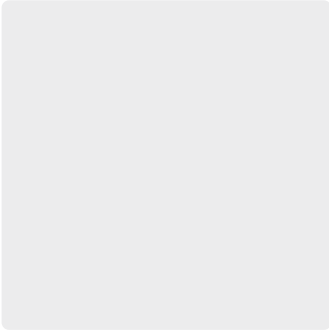
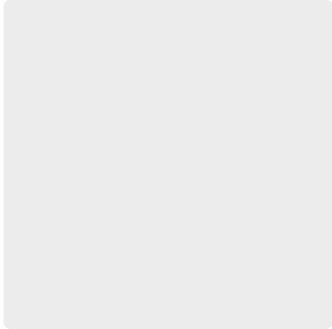
New products 2026

Developed with passion

With our passion for technology and innovation, we are developing products for the All Electric Society. This is the key for a sustainable world in which sufficient affordable renewable energy is available for everyone. Discover our new products.

Also on the Internet: phoenixcontact.com/new-products





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Mark, assemble, and install	158

You will find buttons throughout this e-paper that enable further interaction. Find more information in our web shop, order samples, watch videos, and view our products in 3D.



Gain info



Order sample



Play video



View 3D object

Discover our highlights of the year

With our highlights for electrification, networking, and automation, we are helping to tackle the major challenges of our time.

Our highlights are also available on the Internet: phoenixcontact.com/highlights



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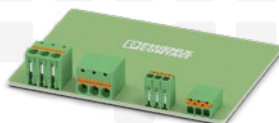
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Push-in PCB terminal blocks in TWIN design

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Sustainable identification solutions

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**Variable speed starters
up to 7.5 kW**

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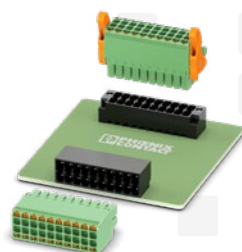
Speed starters with IO-Link

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with Push-X**

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CCS charging cables for up to 1,000 kW

High Power Charging with new cooling concept

The second-generation CHARX connect professional cooled HPC charging connectors transmit up to 1 MW in Boost Mode. With this huge amount of power, it is not just electric cars that can be charged in a matter of minutes. Utility vehicles with large batteries will also be quickly ready for use again.



Main features

- Charging standard: CCS type 2
- Charging current with active cooling: 1,000 A in Boost Mode, 800 A permanently
- Charging current with passive cooling: 800 A in Boost Mode, 600 A permanently
- Rated voltage: 1,000 V
- Cooling medium: water-glycol mix
- Temperature sensor technology: Pt 1000
- Four-wire measurement technology
- Degree of protection: IP67

CHARX connectTM
E-Mobility empowered by Phoenix Contact

High Power Charging TechnologyTM
Designed by Phoenix Contact

Your advantages

- ✓ Up to 1,000 kW of charging power with the new cooling concept – along with improved handling
- ✓ Customized connection concept on request – tailored to your HPC charging station
- ✓ Completely replaceable mating face for fast, cost-effective, and sustainable maintenance
- ✓ Reliable and cost-effective leak detection via insulation monitor
- ✓ Billing compliant with calibration laws through integrated four-wire measurement technology



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Gain more info:
Web code #1631

Type 1 CCS charging cables for 500 kW

High Power Charging for North America

CHARX connect professional uncooled HPC charging cables are now also available with CCS type 1 connector. They transmit 500 kW in Boost Mode or 375 kW permanently, do not require liquid cooling, and offer clever features as well as unlimited safety.



Main features

- Charging current in Boost Mode: 500 A
- Permanent charging current: 200 A, 375 A
- Rated voltage: 1,000 V
- Cable length: 5 m, 6 m, 7 m, 25 ft.
- Temperature sensor technology: Pt 1000
- Four-wire measurement technology (375 A version only)
- Degree of protection: IP54
- Certifications / standards: UL 2251, SAE J1772, IEC 62196-3, IATF 16949

CHARX connect 

E-Mobility empowered by Phoenix Contact

Your advantages

- ✓ Uncooled HPC charging with 500 kW due to increased conductor cross-sections
- ✓ High safety with two-chamber sealing system for the separation of DC+ and DC-
- ✓ Billing compliant with calibration laws through integrated four-wire measurement technology
- ✓ Replaceable mating face enables fast, cost-effective, and sustainable maintenance
- ✓ NACS-compliant cable structure simplifies your engineering when market requirements change



Gain more info:
Web code **#3915**

Holders for CCS type 2 charging connectors

Secure grip and intuitive operation

The new charging connector holder keeps your CCS EV charging stations tidier and safer. The charging connector holder is compatible with all standard-compliant CCS type 2 charging cables and protects the mating face and contacts against environmental factors and damage, thus reducing maintenance effort.



Main features

- Charging standard: CCS type 2
- Push button for unlocking
- Optional microswitch for connector detection
- Dimensions (W x H x D):
80 mm x 130 mm x 57 mm
- Degree of protection: IP55 (when plugged in)

CHARX connect 
E-Mobility empowered by Phoenix Contact

Your advantages

- ✓ Reliable hold with a robust locking mechanism
- ✓ Intuitive release mechanism for removing the connector via push button
- ✓ Simple and flexible monitoring of correct reinsertion with an optional microswitch
- ✓ Long service with glass-fiber-reinforced high-performance PA6 plastic
- ✓ Also suitable for customized mating face contours in accordance with IEC 62196-3:2026 and IEC PAS 63472:2023



Gain more info:
Web code [#4381](#)

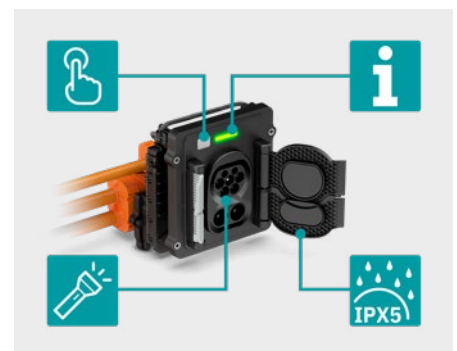




Unique worldwide: charging inlet and controller in one component



Plug-in cables with three possible outgoing directions



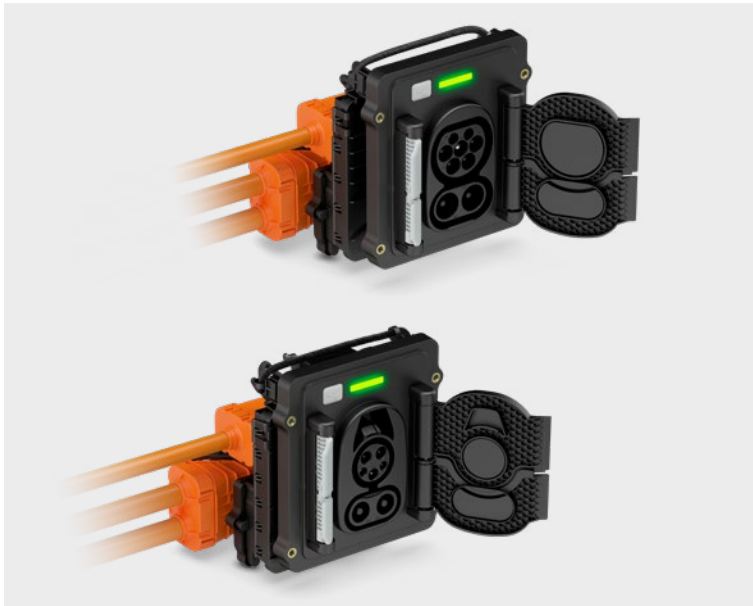
Practical features for increased safety and ease of use

Supply, charge, and protect > Charging technology for e-mobility

CCS charging inlets with integrated charging controller

A world first for all utility vehicles

CHARX connect advanced is the world's first vehicle charging inlet with an integrated charging controller – for perfect interaction. The modular system offers maximum flexibility and enables High Power Charging with up to 800 A. Ideal for electric buses, electric trucks, and off-road vehicles.



Main features

- Charging standards: CCS type 1, CCS type 2
- DC charging current in Boost Mode: up to 800 A
- Permanent DC charging current: 200 A, 250 A, 400 A
- Cable outlet: 90° left, 90° right, straight
- Charging communication in accordance with DIN 70121 and ISO 15118
- Cybersecurity in accordance with UNECE R155 and R156
- Safety functions up to ISO 26262 ASIL B

CHARX connect 

E-Mobility empowered by Phoenix Contact

Your advantages

- ✓ Integrated charging controller saves installation space, time, and money during design-in, configuration, and installation
- ✓ Ultra-fast HPC charging with up to 800 A in Boost Mode
- ✓ Plug-in connecting cables for easy replacement of the charging inlet during maintenance
- ✓ Three possible outlet directions for maximum installation flexibility
- ✓ Protective cover, stop charge button, search light, and LED display for added convenience



View 3D object



Play video

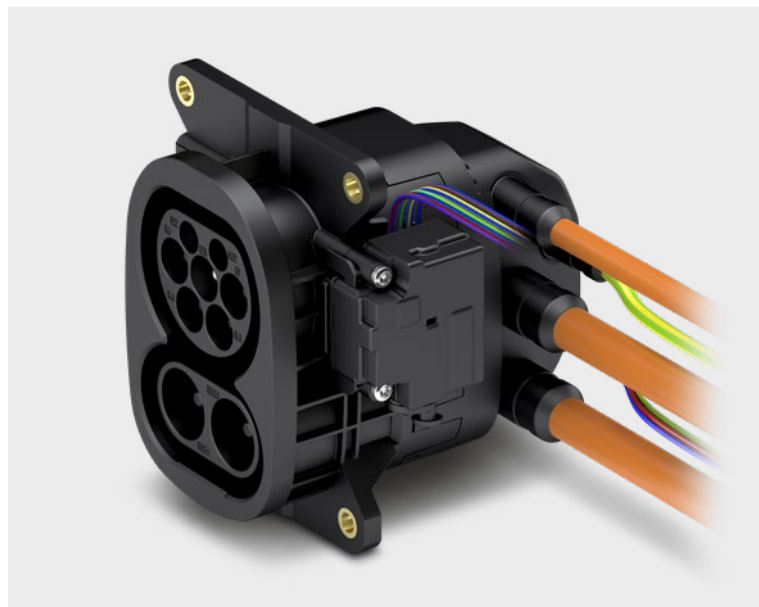


Gain more info:
Web code [#3979](#)

CCS charging inlets with lateral cable outlet

For space-saving mounting in the vehicle

The CHARX connect universal CCS type 2 charging inlets are now also available with a 90° cable outlet. This saves you valuable installation space in the electric vehicle. With the identical geometries, customers who switch to the 90° charging inlets do not have to alter the body cutout.



Main features

- Charging standard: CCS type 2
- Cable outlet: 90° to the right, 90° to the left
- Cable length: 2 m (additional lengths on request)
- Installation depth: 128.5 mm
- DC charging current in Boost Mode: 500 A, 600 A
- Permanent DC charging current: 200 A, 250 A
- DC rated voltage: 1,000 V
- Actuator voltage: 12 V, 24 V

CHARX connect 

E-Mobility empowered by Phoenix Contact

Your advantages

- ✓ Space savings of over 50% in terms of the installation depth compared to our CCS charging inlets with straight cable outlet
- ✓ More convenient and clearer cable installation with optimum bending radii
- ✓ Easy to make the switch, as all CCS charging inlets have the same screw-connection geometries
- ✓ IP6K6K/IP6K9K protection on the front withstands high-pressure and steam jet cleaning
- ✓ Compatible with all protective covers in the CHARX connect universal family



Gain more info:
Web code **#3831**

Individually assembled CCS charging inlets

The ready-to-install solution for electric vehicles

We are now offering for the first time the CHARX connect universal CCS type 2 charging inlets with assembled cable set. The ready-to-install charging inlets are available with common connectors from a single source, reducing your procurement and installation times as well as the overall costs.



Main features

- Charging standard: CCS type 2 (others on request)
- Cable length: 2 m (additional lengths on request)
- Connections: HVA 630 (AC), M8 cable lug (DC/PE), Cinch, or Econoseal (LV)
- Permanent DC charging current: 200 A, 250 A, 375 A
- DC charging current in Boost Mode: 500 A, 500 A, 700 A
- DC rated voltage: 1,000 V

CHARX connect 

E-Mobility empowered by Phoenix Contact

Your advantages

- ✓ Time and cost savings with the ready-to-install solution
- ✓ Charging power, cable lengths and markings, and actuator voltage tailored to your requirements
- ✓ High Power Charging with up to 700 kW in Boost Mode
- ✓ Safe with precise temperature measurement and high IP protection
- ✓ Developed and produced in accordance with the IATF 16949 automotive standard



Gain more info:
Web code [#3722](#)

Protective covers for CCS charging inlets

Optimum protection with smart features

The protective covers provide IPX5 protection for the contact area of our CHARX connect universal CCS charging inlets. This means that your electric utility vehicles are optimally equipped for demanding environmental conditions. A function button and an LED status display can be added as an option.



Main features

- Charging standards: CCS type 1, CCS type 2
- Dimensions (W x H x D):
170.7 mm x 184.4 mm x 41.0 mm
(without extras) or 61.1 mm (with extras)
- Degree of protection: IPX5 (when cover is closed)
- Connection of the LED display and button: 6-pos. MCON connector
- Control of the LED display: PWM
- UNECE R61 supported

CHARX connect 

E-Mobility empowered by Phoenix Contact

Your advantages

- ✓ Reliable protection of all signal and power contacts against jet water in accordance with IPX5
- ✓ Smart operation: the AC cover is opened automatically when the DC cover is opened
- ✓ Optional extras: charging status display with freely controllable RGB LED and button, e.g., for canceling charging
- ✓ Easy design-in due to identical screw-on points for CCS type 1 and CCS type 2
- ✓ Compatible with our CHARX control vehicle charging controller



Gain more info:
Web code **#3830**

Vehicle charging controller for CCS charging

The EVCC for all types of electric vehicles

CHARX control vehicle enables DC fast charging via CCS charging inlets. The controller handles high-level communication (TCP/IP) via Powerline (PLC) between the EV charging station and the electric vehicle and controls the LED display, cancel button, and HV contactors in addition to the CCS charging inlet.



Main features

- DC charging communication in accordance with DIN 70121 and ISO 15118
- AC charging communication via VCU-controlled OBC
- Control of charging inlet, LED display, cancel button, and HV contactors
- E1 approval for road vehicles
- Cybersecurity in accordance with UNECE R155 and R156
- Functional safety up to ISO 26262 ASIL B

CHARX control 

E-Mobility empowered by Phoenix Contact

Your advantages

- ✓ Universal use for all electric vehicles with CCS charging inlet
- ✓ Fast setup, due to pre-parameterization for our CCS charging inlets
- ✓ Vehicle-to-grid-capable for bidirectional charging in accordance with ISO 15118-20
- ✓ Compliance with high safety standards of the automotive industry
- ✓ Immediately ready to operate, due to the short startup time of the operating system



Play video



Gain more info:
Web code [#3721](#)

NACS charging cables for DC charging up to 500 kW

High Power Charging for North America

CHARX connect professional uncooled HPC charging connectors are now also available for the North American Charging Standard. The 100% standard-compliant charging cables transmit up to 500 kW in Boost Mode or 375 kW permanently and impress with their very high level of safety and ergonomics.



Main features

- Charging current in Boost Mode: up to 500 A
- Permanent charging current: 200 A, 375 A
- Rated voltage: 1,000 V
- Cable length: 5 m, 6 m, 7 m, 25 ft.
- Temperature sensor technology: Pt 1000
- Four-wire measurement technology (for 375 A only)
- Degree of protection: IP67 (when plugged in)
- Certifications / standards: UL 2251, SAE J3400, IEC 62196-3, IATF 16949

CHARX connect 

E-Mobility empowered by Phoenix Contact

Your advantages

- ✓ The separate ergonomic handle ensures comfortable handling and prevents heating of the handle surfaces
- ✓ Touch protection with molded caps and precise temperature sensors provide maximum safety
- ✓ Compliance with UL, SAE, IEC, and IATF standards ensures exceptionally high quality and compatibility
- ✓ Available on request with your logo, custom cable length, and assembled cable end



View 3D object



Play video



Gain more info:
Web code **#3834**

Universal NACS charging inlets for 800 A

The vehicle charging interface for America

The UL- and SAE-compliant NACS charging inlets in the CHARX connect universal family are the perfect AC and DC charging interfaces for all types of utility vehicles. With 800 A in Boost Mode, they enable High Power Charging for quick charging stops and cost-effective fleet utilization.



Main features

- DC charging current in Boost Mode: 600 A, 800 A
- Permanent DC charging current: 300 A, 350 A
- AC charging current: 48 A, 80 A
- Cable length: 2 m (additional lengths on request)
- Actuator: 12 V, 4-pos.
- Certifications/standards: UL 2251 (in preparation), SAE J3400, IEC 62196-3, IATF 16949
- Degree of protection: IP6K9K, IP6K6K, IP67, IP6K5

CHARX connect 

E-Mobility empowered by Phoenix Contact

Your advantages

- ✓ 100% standard-compliant charging technology in proven industrial quality for particularly high durability and safety
- ✓ Particularly suitable for small series, as they can be ordered in quantities of 1 or more
- ✓ Reliable locking even in extremely cold conditions due to heated locking bolt
- ✓ Easy to make the switch from type 1 AC to NACS, as the screw-connection geometries are the same
- ✓ Easy replacement during maintenance due to detachable HV and signal lines



View 3D object



Play video

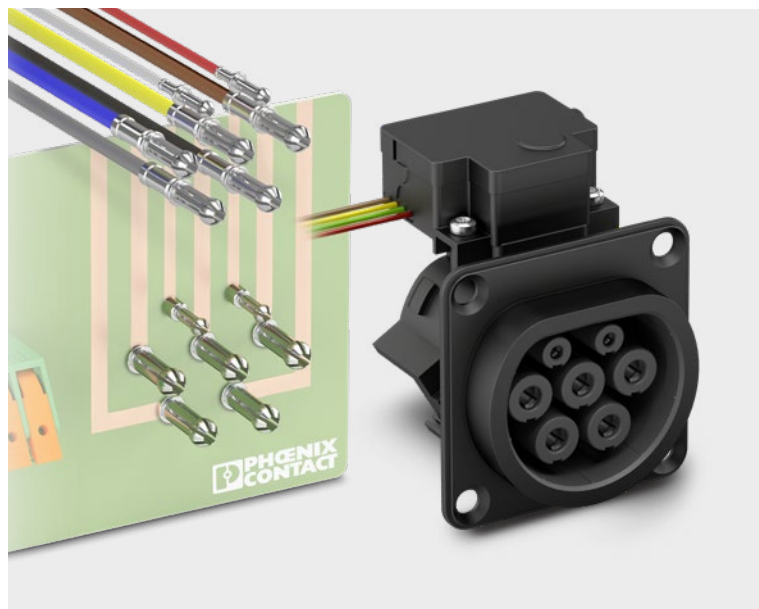


Gain more info:
Web code [#3834](#)

AC charging sockets with reduced overall depth

For flexible and space-saving mounting

You can now install the new generation of CHARX connect modular type 2 charging sockets directly on the PCB of your EV charging station – and save a lot of space due to the reduced installation depth. You can also choose between three actuator positions.



Main features

- Charging current: 20 A, 32 A
- Rated voltage: 250 V, 480 V
- Installation depth: 54 mm (without strain relief and actuator)
- Degree of protection: IP44 (when plugged in), IP54 (with protective cover)
- Actuator: 4-pos., 12 V, position at 4 / 8 / 12 o'clock
- Temperature sensors: PTC (optional)
- Cable length: 0.3 m, 0.7 m, 1.5 m

CHARX connect 

E-Mobility empowered by Phoenix Contact

Your advantages

- ✓ Space savings of up to 38% compared to the previous generation
- ✓ Individually configurable system – now also with a flexible actuator position
- ✓ Easy mounting – now also directly on the PCB or the traditional way using plug-in connecting cables
- ✓ Resistant to lateral forces, waterproof, and dirtproof due to molded contacts
- ✓ Compatible with all protective covers and shutters in the CHARX connect modular family

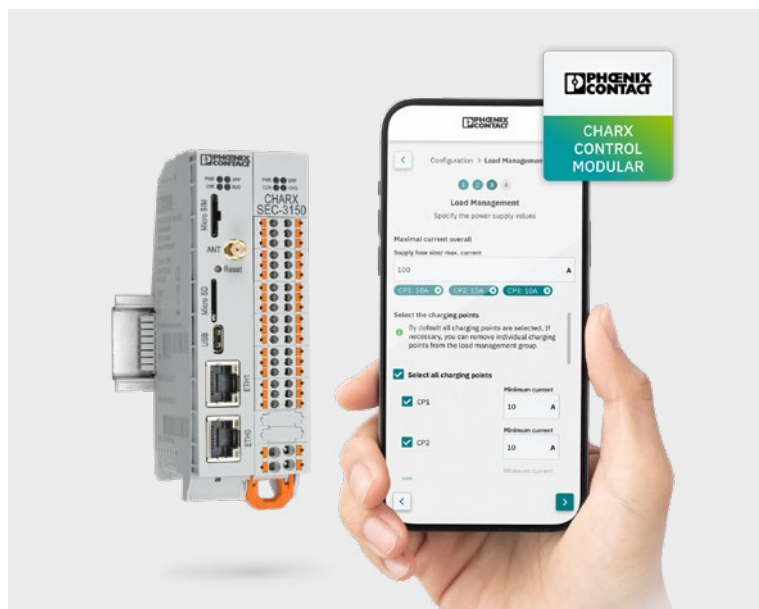


Gain more info:
Web code **#3828**

Mobile app for AC charging controllers

Easy configuration of CHARX control modular

With the new app for the CHARX control modular AC charging controllers, the commissioning and initial configuration of charging points has never been easier: Electrical installers are guided step by step through the settings on their smartphone – even without in-depth knowledge.



Main features

- Available for Android and Apple iOS
- Settings for authentication and load management
- Password-protected login
- Connection to the charging controller via ad-hoc WLAN or existing network
- Compatible USB adapter for ad-hoc WLAN: SparkLAN WUBT-239ACN(BT)



Your advantages

- ✓ Intuitive operation with the modern and responsive design for quick setup on site
- ✓ Step-by-step guidance through all settings for smooth commissioning – even without specialist knowledge
- ✓ Particularly high level of security for sensitive data and settings with password-protected login
- ✓ Simplified commissioning and increased productivity as added value for installers and manufacturers



Gain more info:
Web code #3766

AC charging controllers now with OCPP 2.0.1

Update ensures future viability

The AC charging controllers in the CHARX control modular family are the centerpiece of an intelligent charging infrastructure. With software release 1.10, the class 3000 controllers with OCPP 2.0.1 support the industry's target standard as the basis for future requirements.



Main features

- Software version: 1.10
- OCPP version: 2.0.1
- A focused range of functions with extensions in future releases
- Improved scalability and maintainability
- Various security patches
- Download the update file from the item page

CHARX control 

E-Mobility empowered by Phoenix Contact

Your advantages

- ✓ Future viability for your AC charging infrastructure from support of upcoming requirements
- ✓ Extendable, built to last, and easy to maintain with modern OCPP architecture
- ✓ Increased security from support of cybersecurity and regulatory requirements
- ✓ Seamless integration into backend systems through high interoperability



View 3D object



Gain more info:
Web code [#4319](#)

AC charging controllers now with plug-and-charge

Update makes charging even easier

The AC charging controllers in the CHARX control modular family are the centerpiece of an intelligent charging infrastructure. With software release 1.9, CHARX SEC-3050 and SEC-3150 now support plug-and-charge (PnC) for automatic authentication and payment of the charging process.



Main features

- Software version: 1.9
- Hubject certification
- ISO 15118-2 support
- OCPP version: 1.6 J
- Various security patches
- Download of update file via the item page

CHARX control 
E-Mobility empowered by Phoenix Contact



Your advantages

- ✓ Time-saving and more convenient by automatically starting the charging process – without apps and charge cards
- ✓ Hubject certificate guarantees interoperability with vehicles and backend systems – no need for self-certification
- ✓ AFIR compliance through ISO 15118-2 support facilitates EU-wide rollout of your charging infrastructure
- ✓ Encryption in accordance with ISO 15118-2 protects against tampering, misuse, and unauthorized access



View 3D object



Gain more info:
Web code **#3989**

Modular DC charging controllers

Fast charging with PLCnext Technology

The CHARX control flexible control system combines a PLCnext Control with an SECC communication module to create a modular, openly programmable architecture for DC charging stations – for flexible and future-proof fast charging infrastructure.



Main features

- Modular system consisting of PLCnext Control and SECC communication module
- Extendable via Axioline I/O modules
- Supports IEC 61851, DIN 70121, ISO 15118-2
- Optionally with OCPP app
- Open interfaces and security by design

CHARX control
E-Mobility empowered by Phoenix Contact

PLCnext Technology
Designed by Phoenix Contact

Your advantages

- ✓ The open and modular architecture enables maximum flexibility in the implementation of different charging concepts
- ✓ Prefabricated SECC function blocks and standard-compliant communication significantly reduce development effort
- ✓ Support for relevant CCS standards, optional OCPP connection, and security by design ensure long-term future viability



Gain more info:
Web code #4346

DC charging controller in a 19-inch format

Intelligent closed-loop control with just one module

CHARX control integrated combines all functions for controlling and monitoring your DC fast charging station. The module controls up to ten power modules and can communicate with the backend via OCPP. The integrated PLCnext charging controller features an open system architecture.



Main features

- 19-inch standard for rack mounting, 3 RU
- Five DC inputs: 0 A ... 150 A, 0 V ... 1,000 V for connecting up to 10 power modules
- One DC output: 0 A ... 500 A, 0 V ... 1,000 V
- All functions in one module
- High-level language programming and IEC 61131-3
- Communication in accordance with ISO 15118

CHARX control[®]
E-Mobility empowered by Phoenix Contact

PLCnext Technology[®]
Designed by Phoenix Contact

Your advantages

- ✓ Reduced complexity with an all-in-one module in a 19-inch format
- ✓ Future-proof DC charging station with V2X capability
- ✓ Increased design flexibility with PLCnext Technology due to open interfaces and security by design
- ✓ Fast, flexible backend connectivity with easy integration of OCPP
- ✓ Easy development of the charging application with preprogrammed software modules



Gain more info:
Web code [#4384](#)

Power supply for machine building

Compact plug-and-play solution

The new TRIO POWER power supply with 72 V DC at the output is ideal for drive technology. The TRIO POWER power supplies impress with their space-saving design, robust and reliable supply, easy handling, and intelligent diagnostics.



Main features

- Dynamic boost of up to 150% for 5 s
- Powerful output characteristic curve
- Collective signal contact and multicolor LED
- Low installation depth of just 125 mm
- Temperature range: -25°C ... +70°C, startup type tested: -40°C

Push-in Technology 
Designed by Phoenix Contact

Your advantages

- ✓ Space-saving due to its low overall width and capability of being mounted directly side by side
- ✓ Robust and reliable due to dynamic boost with a powerful output characteristic curve
- ✓ Easy handling with Push-in connection technology
- ✓ Smart diagnostics with multicolor LEDs and collective relay contact for a clear status display



Gain more info:
Web code **#3917**

Power supply with basic functionality

Low power with Push-in connection

The UNO POWER power supplies from 30 to 90 W feature high power density, efficiency, and the new Push-in connection. They are the ideal solution for industrial applications and are particularly suitable for compact control cabinets.



Main features

- Overall width of 35 mm with 90 W power
- AC input voltage: 100 V AC ... 277 V AC
- DC input voltage: 110 V DC ... 250 V DC
- Up to 95% efficiency
- Adjustable output voltage
- High MTBF: >500,000 h
- Wide temperature range: -25°C ... +70°C, startup type tested: -40°C

Push-in Technology 
Designed by Phoenix Contact

Your advantages

- ✓ Optimum supply of 1-phase systems
- ✓ Save space in the control cabinet with the narrow overall width
- ✓ Save energy with up to 95% efficiency
- ✓ Outdoor installation and reliable device startup at -40°C
- ✓ Easy handling with Push-in connection technology



Gain more info:
Web code **#3790**

Power supply with basic functionality

Solution for charging infrastructure

The UNO POWER power supplies starting from 120 W stand out with their easy system diagnostics via DC OK LED and switching relay contact. The high power density makes UNO POWER the perfect solution for industrial applications with limited space.



Main features

- Adjustable output voltage: 12 V DC ... 15 V DC
- LED signaling and DC OK relay contact
- Up to 94.4% efficiency
- High MTBF: >500,000 h
- Narrow overall width of 35 mm
- Wide temperature range: -25°C ... +70°C, startup type tested: -40°C

Your advantages

- ✓ Optimum supply of 1-phase systems
- ✓ Save space in the control cabinet with the narrow overall width
- ✓ Save energy with high efficiency
- ✓ Outdoor installation and reliable device startup at -40°C
- ✓ Easy output voltage system diagnostics with the floating switch contact and DC OK LED

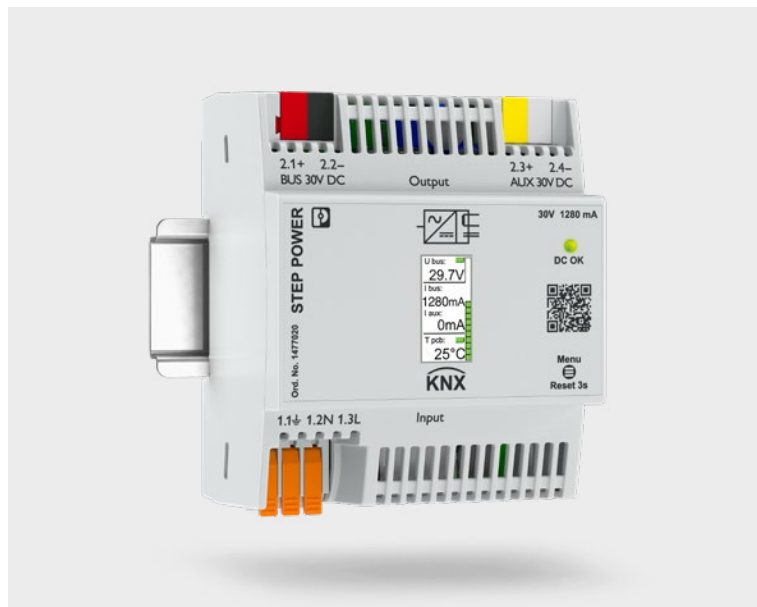


Gain more info:
Web code #3791

Power supply for building automation

Bus power supply for KNX

The STEP POWER bus power supply for KNX has an active KNX choke. This guarantees complete communication even at full capacity. The color display shows all KNX system parameters and provides support during commissioning and diagnostics.



Main features

- Easy diagnostics with the color display
- Reliable communication up to 1,900 mA
- Efficiency at nominal load of 230 V AC: >89.5% (incl. choke)
- Power dissipation at nominal load of 230 V AC: <1.0 W no load / <4.5 W nominal
- Input: 85 V AC ... 264 V AC and 90 V DC ... 275 V DC
- Temperature: -10°C ... +70°C



Your advantages

- ✓ Easy analysis with integrated user interface – all relevant KNX system parameters at a glance
- ✓ History can be called up as a diagnostic function in the menu
- ✓ Active KNX choke provides greater efficiency and ensures reliable communication up to full capacity
- ✓ Space-saving due to the compact design
- ✓ Worldwide use with AC and DC wide range input



Gain more info:
Web code #3792

Power supplies for building automation

Supply and charging via USB-PD

The STEP POWER power supply supplies smart meter gateways, Raspberry Pis, and other smart home components via USB Power Delivery (USB-PD). In addition, it can be used for the fast charging of mobile end devices, such as tablets and laptops, when carrying out maintenance work.



Main features

- Maximum output power: 65 W
- Output voltage: 5 V ... 28 V
- Connection flexibility: 1 x USB-A and 2 x USB-PD (front and top)
- No-load losses: <0.21 W
- Overall width: 36 mm (2 HP)
- Wide temperature range: -10°C ... +70°C, startup type tested: -25°C

Your advantages

- ✓ Flexibility due to the two connection methods: USB-A, USB-PD
- ✓ Easy handling due to flexible connection options located on the front and concealed under the cover of the distribution board
- ✓ Global deployment of servicing and maintenance work with the USB-PD standard
- ✓ Energy savings with a particularly high efficiency in no-load and partial-load operation (Efficiency Level VI)



Gain more info:
Web code #4300

Power supplies with IP67 degree of protection

Reliable supply and device protection

The new IP67 switched-mode power supply units with and without integrated device protection offer a combined supply and protection solution. They are easy to integrate, install, and configure – for flexible availability and flawless adaptation in decentralized environments.



Main features

- Input: 1 AC / DC or 2 AC / 3 AC
- Output: 23.5 V DC ... 28.5 V DC / 20 A
- Versions with 4 integrated device protection channels (1 A ... 10 A)
- HMI user interface
- Stat. boost 125%, dyn. boost 200% (5 s)
- Versions with DC OK / IO-Link interface (SIO mode)
- NEC Class 2
- IP65/67 degree of protection

Your advantages

- ✓ Quick and easy installation with M12 IPD connectors or IPD connectors designed for assembly
- ✓ Reduced cabling effort and space savings with daisy chain, devices are easily added or removed
- ✓ Intuitive HMI parameterization and diagnostics
- ✓ Increased system availability due to prioritized shutdown and reliable short-circuit and capacity detection
- ✓ Safe starting of heavy loads



Gain more info:
Web code [#4301](#)

Power supplies for panel mounting

Push-in connection for high powers

The TRIO POWER power supplies for panel mounting, with a power of up to 2.5 kW, now have Push-in connections. The devices with an output voltage of 24 or 48 V DC are characterized by their high power density and efficiency in a compact design.



Main features

- Input 1 AC: 85 V AC ... 264 V AC
Output DC: 24 V DC or 48 V DC
- Dynamic boost of up to 140% for 5 s
- Can be connected in series and in parallel
- As an option, can be used with CAN communication, remote control
- EMC Class B
- Auxiliary power supply: 5 V / 2 A
- Flexible panel mounting
- Intelligent fan control

Push-in Technology 
Designed by Phoenix Contact

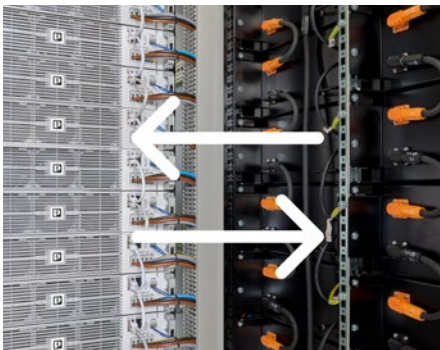
Your advantages

- ✓ Easy handling with Push-in connection technology
- ✓ High power density and high efficiency with a compact design
- ✓ Simple power increase through parallel connection and integrated O-ring diode as well as increase in output voltage through series connection
- ✓ Reliable supply with increased EMC requirements
- ✓ Comprehensive monitoring via LED signaling and CAN bus interface



Gain more info:
Web code **#3919**





Bidirectional functionality



Island grid function enables use in mobile applications



Condition monitoring and stand-alone operation via display

Supply, charge, and protect > Power supplies

Power supply for 19" rack mounting

Flexible due to bidirectional conversion

The TRIO POWER power module delivers 30 kW for bidirectional power conversion. Grid feed-in and island grid capability enable use in various battery storage applications. The modular design allows the output to be increased up to 1.5 MW.



Main features

- Bidirectional power module
- AC input / output: 156 V 3AC ... 530 V 3AC
- DC input / output: 50 V ... 1,000 V
- Scalable up to a maximum of 1.5 MW
- Certified in accordance with global grid feed-in standards
- CANopen interface
- User interface with display
- Modular system in the 19" standard

Push-in Technology 
Designed by Phoenix Contact

Your advantages

- ✓ Taking energy from the grid and feeding energy into the grid with the bidirectional functionality and certification in accordance with global feed-in standards
- ✓ Island grid function and robust design enable use in mobile applications
- ✓ Easy system integration via CANopen communication interface
- ✓ Condition monitoring and stand-alone operation via display
- ✓ Flexible mounting due to front connection



Gain more info:
Web code **#4323**

High availability in the event of power failures

UPS with integrated power supply

Maximize your system availability in the event of power failure with the TRIO UPS. It combines signaling, diagnostics, connection to IPCs and PLCs, and a cold restart function in one compact housing. The dynamic boost makes it particularly reliable.



Main features

- Battery status (SOH) can be read via LED
- Battery start via button on the front
- Intelligent charging behavior with external temperature sensor
- Optional communication via RS-485 or USB-C
- Dynamic boost: 150% overload capacity from power supply
- Dynamic battery boost: up to 400% from the battery

Push-in Technology 
Designed by Phoenix Contact

Your advantages

- ✓ Direct diagnostics with multicolor LEDs and signal contacts for a clear status display
- ✓ Easy handling ensured by tool-free wiring with Push-in
- ✓ Robust and reliable due to dynamic boost and intelligent battery charging behavior
- ✓ Space-saving by combining a power supply and UPS in one housing
- ✓ Optional smart parameterization and monitoring via interface connection



Gain more info:
Web code **#3770**

Lithium battery modules with IQ Technology

Long service life and long buffer time

The battery modules extend the portfolio to 284 Wh and feature high power density in a lightweight design. For continuous monitoring and intelligent management, there is constant communication with the QUINT4 UPS.



Main features

- Lithium iron phosphate technology
- Temperature range: -20°C ... +60°C
- Buffer time: 1 A for up to 27 hours or 40 A for up to 41 minutes, with a service life of 10 years
- 6 times the cycle stability compared to lead AGM technology
- High energy density in a lightweight design

IQ Technology 
Designed by Phoenix Contact

Your advantages

- ✓ Quick installation with automatic detection of the battery module and tool-free replacement during operation
- ✓ Intelligent battery management for continuous monitoring and high availability with the QUINT4 UPS
- ✓ Long service life due to optimum charging characteristics and cycling stability
- ✓ Compact solution up to 11 Ah on the DIN rail with a high energy density



Gain more info:
Web code **#3794**

Lithium battery module with IQ Technology

Long service life and long buffer time

The battery module with 716 Wh completes the portfolio of lithium batteries. It features high power density in a lightweight design. For continuous monitoring and intelligent management, there is constant communication with the QUINT4 UPS.



Main features

- Lithium iron phosphate technology
- Temperature range: -15°C ... +55°C
- Buffer time: 1 A for up to 27 h or 40 A for up to 41 min, with a service life of 10 years
- 6 times the cycle stability compared to lead AGM technology
- High energy density in a lightweight design

IQ Technology 
Designed by Phoenix Contact

Push-in Technology 
Designed by Phoenix Contact

Your advantages

- ✓ Quick installation with automatic detection of the battery module and replacement during operation
- ✓ Intelligent battery management for continuous monitoring and high availability with the QUINT4 UPS
- ✓ Long service life due to optimum charging characteristics and cycling stability
- ✓ Compact solution up to 28 Ah due to high energy density in a lightweight design



Gain more info:
Web code **#3921**

UPS with power supply and capacity

Maintenance-free solution to prevent mains failures

The new TRIO capacity module for DC loads combines a power supply, UPS, and maintenance-free energy storage unit with a long service life in one housing. Special supply situations, such as during load start-up or overloads, are reliably bridged with the boost function.



Main features

- Dyn. boost: up to 150% for 5 s
- Capacity boost: up to 350% from the energy storage unit for 350 ms
- Fast charging up to 5 A
- Can be set to up to 28 V DC
- Interfaces: USB-C / RS-485
- Comprehensive signaling with multicolor LEDs and digital outputs
- Wide temperature range: -40°C ... +60°C

Push-in Technology 
Designed by Phoenix Contact

Your advantages

- ✓ Reliable maintenance-free use and long service life of up to 20 years
- ✓ Maximum system availability and cost optimization with a 3-in-1 solution
- ✓ Time-saving installation with Push-in connection and easy handling with clear setting options
- ✓ Boost function bridges peak loads and allows an optimum power reserve
- ✓ Simple configuration and direct diagnostics

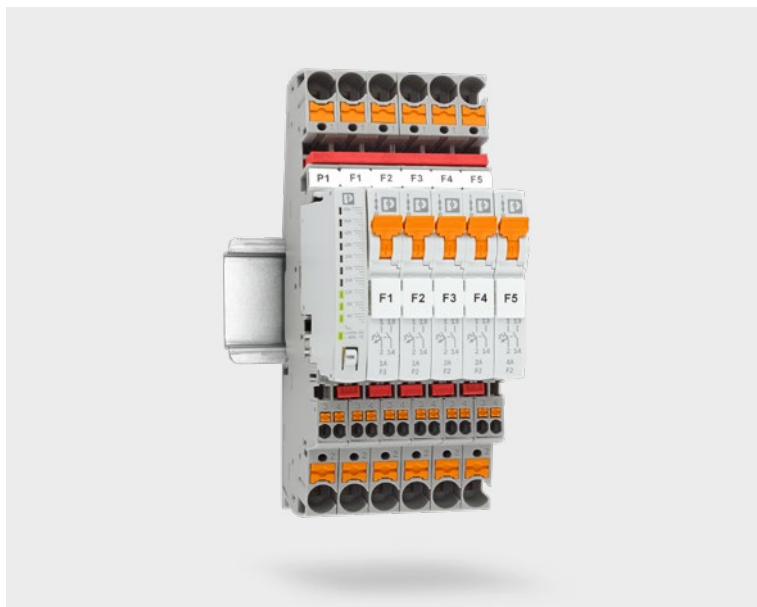


Gain more info:
Web code **#3920**

Modular device circuit breakers

Reliable protection, easy handling

With an overall width of 8 mm, the new PTCB TM product family creates more space in the control cabinet. It is also ideal for higher currents and can be bridged to the CLIPLINE complete range. Through electrical isolation and easy current monitoring, it provides reliable protection.



Main features

- Reliable startup of loads with high startup currents
- Electrical isolation in the event of an error
- Reliable with a resilient design
- Large selection of rated current versions in increments from 0.5 to 16 A
- Protective plug with M1 or F2 characteristic curve
- Operating voltage: 10 V DC ... 56 V DC, 24 V AC ... 277 V AC

Your advantages

- ✓ More space in the control cabinet: protection and signaling in an overall width of just 8 mm
- ✓ Simple application setup with the capability of bridging to the CLIPLINE complete terminal block range
- ✓ Transparency regarding utilization and status with practical current monitoring and remote signaling
- ✓ Easy handling from commissioning right through to maintenance due to clear functionality and switching state at all times



Gain more info:
Web code #3933

Modular device circuit breakers

Reliable protection, easy handling

The new two-position versions extend the PTCB TM product family. The thermal-magnetic device circuit breakers now also offer the option of all-position disconnection. They are ideal for isolated applications or split-phase grids.



Main features

- Reliable startup of loads with high startup currents
- Electrical isolation in the event of an error
- Reliable due to standard-compliant isolation
- Large selection of nominal current versions from 0.5 A ... 16 A
- Protective plug with M1 or F2 characteristic curve
- UIN: 10 V DC ... 56 V DC (UL) / 80 V DC (VDE); 10 V AC ... 277 V AC

Your advantages

- ✓ More space in the control cabinet: protection and signaling in an overall width of just 8 mm per position
- ✓ Simple application setup with the capability of bridging to the CLIPLINE complete terminal block range
- ✓ Transparency regarding utilization and status with practical current monitoring and remote signaling
- ✓ Easy handling from commissioning right through to maintenance due to clear functionality and switching state at all times



Gain more info:
Web code **#4305**

CAPAROC circuit breaker system

Communication via Modbus/TCP

The individual modular system provides access to different applications via various communication interfaces. The new feed-in module with Modbus/TCP features a universal interface for integration into various systems.



Main features

- Data exchange via system bus interface to QUINT POWER
- Modbus/TCP communication
- Easy integration into existing communication systems
- Up to 45 A total system current
- Supply voltage: 12 V DC ... 24 V DC



Your advantages

- ✓ The customizable standard, thanks to a wide range of possible combinations of the future-proof modular system
- ✓ Easy operation through tool-free assembly, uninterrupted installation, and transparent operating state
- ✓ Strikingly simple design-in with extensive support from the selection up to digital services



Gain more info:
Web code #3924

CAPAROC circuit breaker system

Communication via EtherCAT

The individual modular system provides access to different applications via various communication interfaces. The new EtherCAT® feed-in module opens up further application possibilities in which CAPAROC protects against overcurrent and short circuits.



Main features

- Data exchange via system bus interface to QUINT POWER
- EtherCAT communication
- Easy integration into existing communication systems
- Up to 45 A total system current
- Supply voltage: 12 V DC ... 24 V DC



Your advantages

- ✓ The customizable standard, thanks to a wide range of possible combinations of the future-proof modular system
- ✓ Easy operation through tool-free assembly, uninterrupted installation, and transparent operating state
- ✓ Strikingly simple design-in with extensive support from the selection up to digital services



Gain more info:
Web code **#3925**

CAPAROC circuit breaker system

Sets for getting started quickly

The preassembled CAPAROC circuit breaker sets are quick to install. You can choose between simple status signals or an IO-Link interface for comprehensive diagnostics. They protect up to eight circuits against the effects of overloads and short circuits.



Main features

- Supply voltage: 12 V DC ... 24 V DC
- IO-Link interface
- Group message, reset, warning at $I > 80\%$
- Push-in connections: 16 mm² / protected output: 4 mm²
- 8 preassembled channels per system
- Total current monitoring ≤ 45 A
- Test pick-off per connection
- Power display with nominal current locking

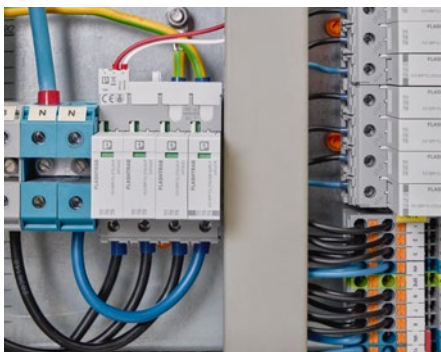
Your advantages

- ✓ The customizable standard with individual expansion options
- ✓ Particularly easy operation for everyone with preconfigured sets for direct use
- ✓ Protection of eight circuits without additional installation effort
- ✓ Evaluation options: from simple signals to comprehensive diagnostics with IO-Link



Gain more info:
Web code #3832





FLT-SPP combined lightning current and surge arrester for maximum system availability



Safe installation with miswiring and touch protection



Typical FLASHTRAB SPP areas of application

Supply, charge, and protect > Surge protection

Top performance in surge protection

Powerful, safe, and compact

Ever-increasing demands on system protection in modern industry require innovative and powerful products. The new type 1 surge protection in the Safe Protection Plus product family combines high discharge capacity with pluggability and a compact overall width.



Main features

- Discharge capacity I_{imp} and I_{total} 100 kA
- Wear-free spark gap technology
- Short-circuit current rating I_{SCCR} 100 kA
- Multi-pulse capability
- Each path is individually pluggable
- Miswiring and touch protection
- Use without backup fuses up to 315 A
- Can be used at altitudes up to 5,000 m

Your advantages

- ✓ Top performance for reliable system protection with triggered multi-carbon spark gap technology
- ✓ Superior protective effect even for sensitive systems due to the fast response behavior and low residual voltage
- ✓ Easy and safe installation with forward-thinking features such as miswiring and touch protection
- ✓ Versatile use due to the space-saving overall width of 17.5 mm per position



Gain more info:
Web code #4325

Surge protection for the meter panel

With integrated voltage pick-off

The new FLT-SEC-ZP2-...-SV combined lightning current and surge arrester is the system solution for future-proof building installations. It has an integrated power supply for intelligent measuring systems with Smart Meter Gateway (SMGW).



Main features

- Compact surge protection for the meter panel with an overall width of just 32 mm incl. voltage pick-off
- T1 + T2 + T3 combined protection
- Tool-free voltage pick-off with Push-in Technology
- Fuse holder with integrated spare fuse

Your advantages

- ✓ Integrated, standard-compliant voltage pick-off with two load pick-offs for the supply in the APZ (termination point meter location) and RfZ (space for additional applications) – in accordance with VDE-AR-N 4100
- ✓ Tool-free installation with Push-in connections for quick wire connection and replaceable 4 A microfuse with integrated spare fuse
- ✓ Space-saving system integration due to the compact design (overall width of just 32 mm) for direct mounting on the 40 mm busbar



Gain more info:
Web code [#4307](#)

Surge protection for NEMA supply system configurations

Easy and safe for high flexibility

As part of the Safe Protection Plus family, VAL-US-SPP features surge protective devices for all power supply systems in North America in accordance with the NEMA standard. These UL-listed SPDs provide robust protection with innovative installation and safety features and are easy to integrate.



Main features

- “Open Type” UL Listed
- Miswiring and touch protection
- Low tightening torque
- Reinforced insulation between the main and auxiliary circuit
- Improved disconnection
- Pluggable protective devices

Your advantages

- ✓ Easy integration into existing systems with UL Open Type Listed
- ✓ Suitable for all standard network configurations in accordance with NEMA
- ✓ Easy system status monitoring with an optical status indicator and remote indication contact
- ✓ Available throughout Europe and can be used throughout Europe thanks to CE conformity



Gain more info:
Web code [#3922](#)

New benchmark in surge protection

Easy and safe for high flexibility

Benefit from a very high level of safety, easy installation, and maximum efficiency. Reliably protect your systems against surge voltages with VALVETRAB SPP. Single-position items with various voltage levels are now also available.



Main features

- Miswiring protection
- Touch protection
- Low tightening torque of 3 Nm
- Reinforced insulation between the main and auxiliary circuit
- Use without backup fuses up to 315 A

Your advantages

- ✓ Easy and safe installation with forward-thinking handling and safety features
- ✓ Reliable system protection with maximum performance and endurance
- ✓ Can be used in a wide range of applications due to the optimized design and broad portfolio
- ✓ Maximum flexibility when creating specific solutions thanks to single-position products
- ✓ Simple planning due to comprehensive digital data and selectors



Gain more info:
Web code #3796

Reliable protection for 60 V

Simple and safe in every application

Reliably protect AC and DC applications up to 60 V against surge voltages. The VAL-SPP-60... enables simple, safe installation and ensures high system availability.



Main features

- Protects AC and DC applications up to 60 V
- Miswiring and touch protection
- Low tightening torque
- Reinforced insulation
- Fast disconnection
- Compact design
- Pluggable design

Your advantages

- ✓ Suitable for use in 60 V AC and DC applications for maximum versatility
- ✓ Reliable protection for 48 V applications with high system availability
- ✓ Easy, safe installation with well-designed handling and safety features
- ✓ High operational safety with fast, safe disconnection



Gain more info:
Web code [#4388](#)

Surge protection for photovoltaic systems

Pluggable lightning current arresters for 1,500 V

VAL-SPP-T1-1500DC-PV offers powerful lightning current and surge protection for photovoltaic systems with system voltages of up to 1,500 V DC. Modular, flexible, internationally certified, and with high operational safety for reliable and maintenance-friendly use.



Main features

- Pluggable surge protection for PV applications up to 1,500 V DC
- Miswiring and touch protection
- Low tightening torque
- Reinforced insulation between the main and auxiliary circuit
- Improved disconnection
- Can be used at altitudes up to 5,000 m

Your advantages

- ✓ Easy and safe installation with forward-thinking handling and safety features
- ✓ Reliable system protection with maximum performance and endurance
- ✓ Easy system status monitoring with an optical status indicator and remote indication contact
- ✓ Can be used up to an altitude of 5,000 m due to the optimized design featuring improved air clearances and creepage distances



Gain more info:
Web code **#4308**

String combiner boxes for photovoltaic systems

Safe disconnection in the event of a fire

Fire protection organizations and insurers are increasingly recommending so-called fire department switches. To minimize the risks for emergency services and ensure safe firefighting, the aim is to automatically switch PV strings close to the PV panels to load-free in the event of an emergency.



Main features

- Motorized switch disconnect
- Integrated surge protection (type T1/2)
- Protection of up to 12 MPP trackers
- Up to 2 strings per MPP tracker and 20 A per string
- Maintenance-free connection with SUNCLIX or Push-in connection technology
- Standard-compliant through the application of DIN EN 61439

Your advantages

- ✓ “Automatic” disconnection of the PV strings close to the PV panels
- ✓ Fast installation and startup with preassembled string combiner boxes
- ✓ Space-saving installation with the compact design
- ✓ Simplified connection of the lightning protection potential balancing conductor with sufficient connection options
- ✓ Reduction of the installation effort by combining the PV strings

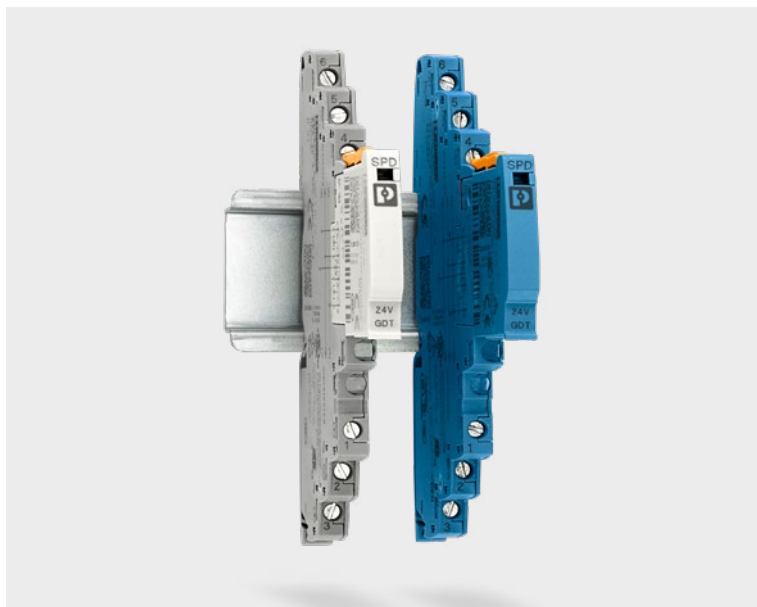


Gain more info:
Web code **#3833**

Surge protection for APL applications

Safe operation of field devices

In the TERMITRAB complete surge protection portfolio, Phoenix Contact now also offers two product versions for Advanced Physical Layer applications. The circuit versions are specifically tailored to the APL application area.



Main features

- Narrow overall width of just 6 mm
- Third terminal block level on the product
- Fulfillment of the APL application specification
- Integrated overload protection
- Use in explosion-protected areas

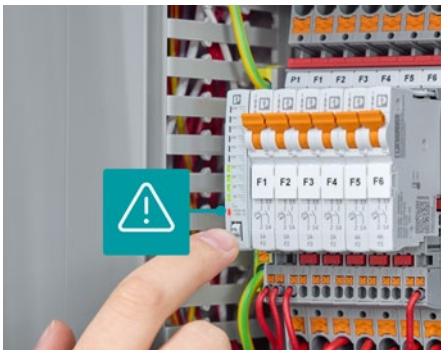
Your advantages

- ✓ Space savings and cost savings due to the narrow overall width of just 6 mm
- ✓ Fulfillment of the APL application specification with the optimized protective circuit
- ✓ Easy integration of shielding with a third terminal block level on the product
- ✓ Continuous monitoring of protective devices, plus mechanical status indicator with optional remote signaling
- ✓ The signal is not influenced during maintenance work thanks to the impedance-neutral insertion and removal of plugs



Gain more info:
Web code **#3795**

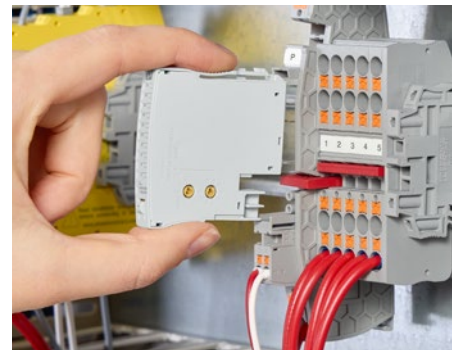




System load at a glance on the device at all times



Easy configuration of the threshold value via rotary switch



Quickly integrated into applications via CLIPLINE complete

Switch, measure, and monitor > Energy monitoring

Current monitoring made easy

Clear, slim, and cleverly integrated

The practical CMU-DC current monitoring unit detects system loads and provides early warning of a failure. With an overall width of just 8 mm, CMU-DC saves valuable space in the control cabinet and can be cleverly bridged directly with the CLIPLINE complete terminal block range.



Main features

- Currents up to 20 A can be measured
- Visual display of utilization in 1 A increments
- Visual indication when the threshold value is exceeded
- Early warning via remote signaling
- Remote signaling of the flowing current in 0.1 A increments
- Adjustment on the device via rotary switch
- Can be bridged to PT and XT terminal blocks

Your advantages

- ✓ Quickly identify utilization with the visual display and remote signaling
- ✓ Ready to use in no time due to simple operation and adjustment directly on the device
- ✓ More space in the control cabinet due to the narrow overall width of just 8 mm
- ✓ Can be bridged to the CLIPLINE complete terminal block range, always ensuring fast integration



Gain more info:
Web code [#4324](#)

AC energy meters for billing purposes

Record, communicate, and bill

EMpro AC energy meters with MID approval in accordance with 2014/32/EU enable cost center-specific energy data billing (submetering). They record all key parameters such as currents, voltages, power factors, powers, and energy values in all four quadrants.



Main features

- Direct measurement up to 100 A AC (3-phase) / 45 A AC (1-phase)
- Measurement via current transformer: secondary 1 A / 5 A
- Accuracy class C (EN 50470-3)
- Operating temperature: -40°C ... +70°C
- Input voltage range: 100 V AC ... 277 V AC (phase / neutral conductor) / 173 V AC ... 480 V AC (phase / phase)

Your advantages

- ✓ Direct current measurement up to 100 A AC over the full temperature range of -40 to +70°C
- ✓ Compliance with accuracy class C in accordance with EN 50470-3 and 0.5 in accordance with IEC 62053-21
- ✓ Easy, intuitive operation and reading via the backlit LCD display
- ✓ Simple bus and network connection via Modbus/RTU or Modbus/TCP interface
- ✓ Modbus registers based on EMpro multifunctional energy measuring devices



Gain more info:
Web code #3727

Multifunctional energy measuring devices

Energy measurement for building automation

The multifunctional energy measuring devices are now available with certified BACnet interface. These interfaces enable the easy and efficient integration of precise energy data into all modern building automation systems.



Main features

- Voltage measurement up to 690 V AC (Ph/Ph)
- Current measurement via 1 A, 5 A, 333 mV converters, and Rogowski coils
- Real energy class 0.2 (IEC 61557-12, NEMA SM 31000)
- Detection of harmonics (up to 63rd harmonic)
- Configurable alerts and internal data logging
- 1 DI, 1 DO (multifunctional)



Your advantages

- ✓ Energy measurement in just three steps with the intuitive installation wizard
- ✓ Versions for the direct connection of conventional Rogowski coils
- ✓ Easy startup and servicing with smart web server and display functions
- ✓ Data protection through the targeted deactivation of key configuration functions and interfaces
- ✓ Future-oriented communication solutions and digital services



Gain more info:
Web code #4298

Energy management software

Acquire, store, and visualize locally

The Energy Management Service – On-Premises is the perfect solution for your local energy monitoring. Benefit from a system that can be ordered preconfigured with intuitive, flexible functions for the informative visualization and analysis of your energy data.



Main features

- Different licenses for 5, 10, 20, 50, and 100 measuring devices
- Usable EPCs: EPC 1502, EPC 1522
- Chart types: pie chart, line chart, bar chart, Sankey chart
- Energy reports: tables, charts
- Media that can be depicted: electricity, gas, oil, water, compressed air, temperature, etc.

Your advantages

- ✓ Local access to all energy data, without depending on external servers
- ✓ Flexible, scalable system without recurring costs
- ✓ Preconfigured complete system with automatic device detection and configuration wizard
- ✓ Transparent monitoring with dashboards and by creating energy reports
- ✓ Open system for your individual EnPIs and other forms of energy such as gas and water

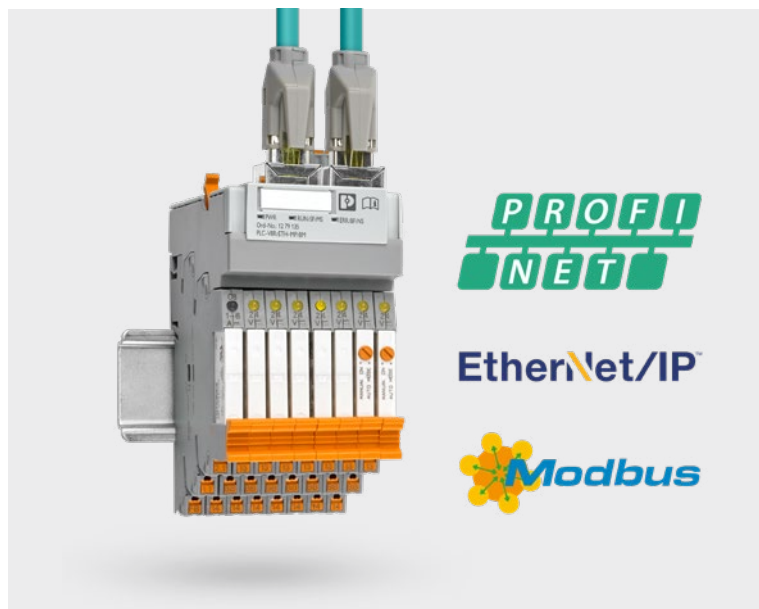


Gain more info:
Web code #3730

Network-capable remote relay system

Multi-protocol connection to the controller

The modular remote relay system with flexible channel assignment supports you in simple applications with up to 56 IO channels. Benefit from high flexibility and intuitive integration with compatibility with common control software.



Main features

- Multi-protocol connection: PROFINET, EtherNet/IP, Modbus/TCP
- Simple integration into the control system software via device description files
- Compatible with PLC-INTERFACE relay and analog modules
- Temperature range: -40°C ... +60°C
- Maximum number of channels: up to 56 channels

Your advantages

- ✓ Flexible channel configuration (DI, DO, AI, AO) and compact design for simple applications with small to medium numbers of channels in the decentral control box
- ✓ Multi-protocol connection with an innovative network module with high-performance chipset (PROFINET Class C and S2 redundancy)
- ✓ Intuitive, fast integration into the control level due to compatibility with established control software

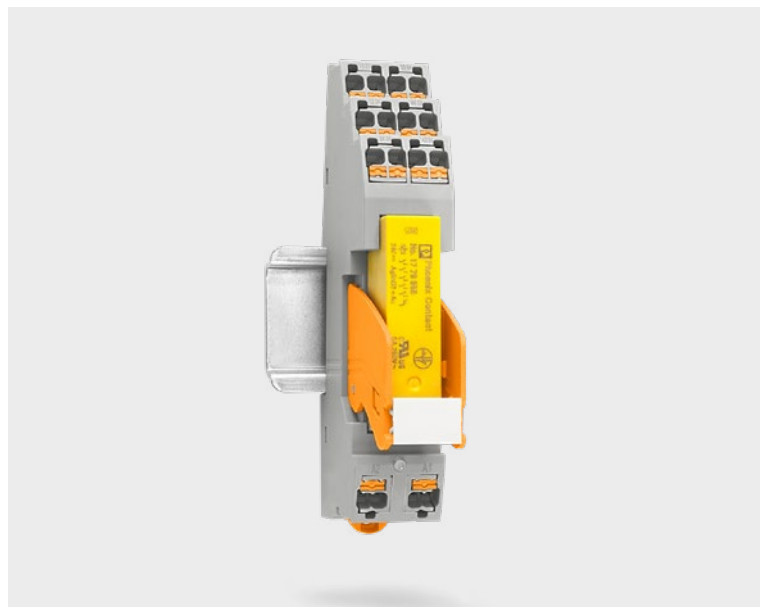


Gain more info:
Web code [#3932](#)

Highly compact force-guided relay modules

Six-position with Push-in connection technology

The highly compact RIFLINE complete relay module switches reliably with six force-guided contacts and Push-in connection technology. Benefit from A2 potential distribution via plug-in bridges on the input side and reliable feedback in your application.



Main features

- Push-in connection technology
- Overall width of just 20.9 mm
- Relay module with 6-position, force-guided relay
- A2 potential distribution via plug-in bridges on the input side
- Reliable feedback

Your advantages

- ✓ Space-saving switching with a width of just 20.9 mm
- ✓ More force-guided contacts with the six-position relay
- ✓ Quick and easy cabling of the relay modules with Push-in connection technology
- ✓ Simple potential distribution with plug-in bridges on the input side



Gain more info:
Web code **#3911**

Installation contactors and installation relays

Powerful, reliable, versatile

The versatile installation contactors and installation relays switch high load currents reliably and efficiently. Noise emissions from the coil are eliminated by the HUM-FREE input circuit, which also provides protection against overvoltage.



Main features

- DIN rail-mounted device design for distribution boards
- Rated current: 16 A ... 63 A
- Nominal input voltage: 24 V and 230 V
- HUM-FREE input circuit
- Varistor for protection against overvoltages
- Electrical isolation (coil / contact)

Your advantages

- ✓ Ideal for building automation with hum-free operation of the switching devices
- ✓ High flexibility with the ability to be used in various applications such as lighting, power distribution, and even AC charging stations
- ✓ Compact design saves space in the control cabinet
- ✓ Mastering switching tasks with the extensive selection of NC and NO contacts along with mono- and bi-stable versions



Gain more info:
Web code **#3909**

Three-phase solid-state contactors

Fast, robust, and durable switching

Solid-state contactors switch different loads in industrial environments silently and wear-free. Benefit from high switching frequencies and load-free switching in zero crossing mode with a narrow width.



Main features

- End-to-end product range
- Wear-free and quick switching
- Temperature range: -40°C ... +60°C
- Robust against shocks and vibrations
- Switching currents up to 30 A
- Superior system availability
- High operating voltage range of up to 660 V AC

Your advantages

- ✓ Reduced overall width saves space in control cabinets
- ✓ Longer service life compared to electromechanical solutions due to wear-free semiconductor technology
- ✓ Optimum heat management with integrated heatsink



Gain more info:
Web code #3910





Fast startup and intuitive operating concept



*Three-phase asynchronous motor
power class up to 7.5 kW*



Integrated Safe Torque Off (STO) function

Switch, measure, and monitor ➤ Motor starters and electronic switching devices

Variable speed starters up to 7.5 kW

Intuitive operation with STO function

The CONTACTRON Speed Starter is now also available for motors up to 7.5 kW. Benefit from the intuitive set-up of the variably adjustable ramps and up to four fixed speeds. The analog input and integrated STO function provide flexibility and safety.



Main features

- Control of three-phase asynchronous motors up to 7.5 kW
- Analog input
- Configurable ramps and up to 4 adjustable speeds
- SIL 3- and PLe-capable
- Brake resistor connection from 4.0 kW
- With integrated EMC filter as an option
- Suitable function blocks in the PLCnext Library

Your advantages

- ✓ Quick installation and startup with easy wiring and intuitive operating concept
- ✓ Flexibility with the new performance class of up to 7.5 kW
- ✓ Safe shutdown with the integrated Safe Torque Off function (STO)
- ✓ Efficient operation with parameterizable ramps and up to four adjustable speeds
- ✓ Variable speed setting option with the analog input



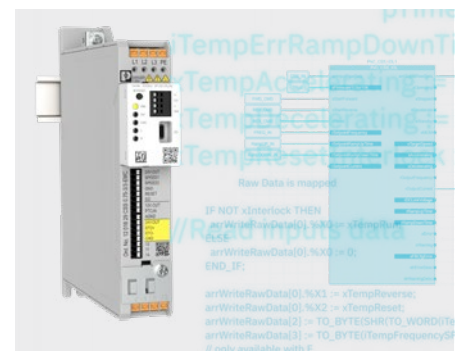
Gain more info:
Web code **#4328**



Simple and intuitive network connectivity via IO-Link



Extended flexibility with the modular plug-and-play system



Preconfigured function blocks

Switch, measure, and monitor ➤ Motor starters and electronic switching devices

Speed starters with IO-Link

Easy and flexible network connectivity

Easily and flexibly integrate CONTACTRON Speed Starters up to 7.5 kW into the network with IO-Link. Configure simple frequency converter functions conveniently via IO-Link. Read process data. Control three-phase asynchronous motors.



Main features

- Control of three-phase asynchronous motors up to 7.5 kW
- Configuration and control of frequency converter functions via IO-Link
- Pluggable IO-Link module
- STO function in the base device for SIL 3 and Pl
- With integrated EMC filter as an option
- USB-C interface for easy configuration



Your advantages

- ✓ Simple and intuitive network connectivity via IO-Link
- ✓ Extended flexibility with the modular plug-and-play system
- ✓ Preconfigured function blocks for TIA Portal, Studio 5000, and PLCnext Technology
- ✓ Safe shutdown with the integrated Safe Torque Off (STO) function in the base device
- ✓ Easy configuration via integrated USB-C interface



Gain more info:
Web code #4403

Hybrid motor starters with IP67 degree of protection

Decentralized network connectivity with IO-Link

Switch motors safely and reliably using hybrid motor starters. The new versions for field mounting enable decentralized, flexible, and modular installation. Transfer process data easily and network your devices quickly with IO-Link.



Main features

- IP54 and IP67 degree of protection
- IO-Link network connection
- Motor protection with bimetal function up to 9 A (adjustable)
- Safe shutdown (emergency stop)
- Diagnostic functions and process data linking
- CONTACTRON hybrid technology: wear-free semiconductor technology
- Direct and reversing starter functions

CONTACTRON Hybrid Technology[®]
Designed by Phoenix Contact

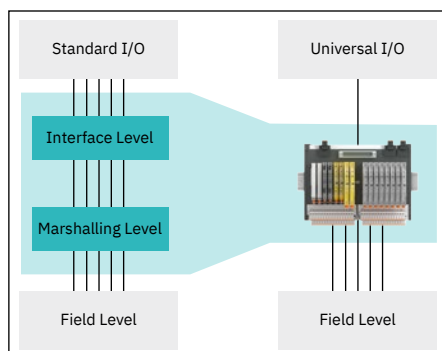
Your advantages

- ✓ Quick and easy installation with M12 connectors
- ✓ Installation directly on the load in the field reduces cable lengths and saves space in the control cabinet
- ✓ Fast wiring with integrated locking circuit and load wiring
- ✓ Ten times the service life with wear-free semiconductor technology
- ✓ High system availability due to the robust IP54 and IP67 housing

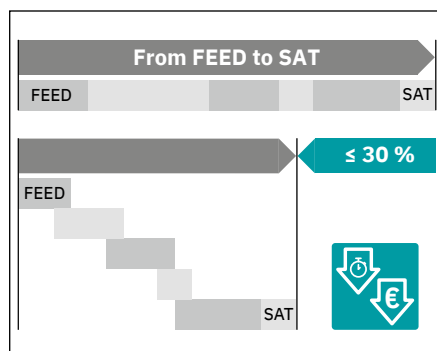


Gain more info:
Web code **#4392**

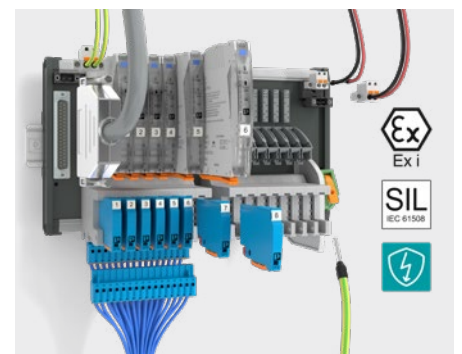




Interface and marshalling levels combined in a compact form



Shorten project timelines with flexible engineering



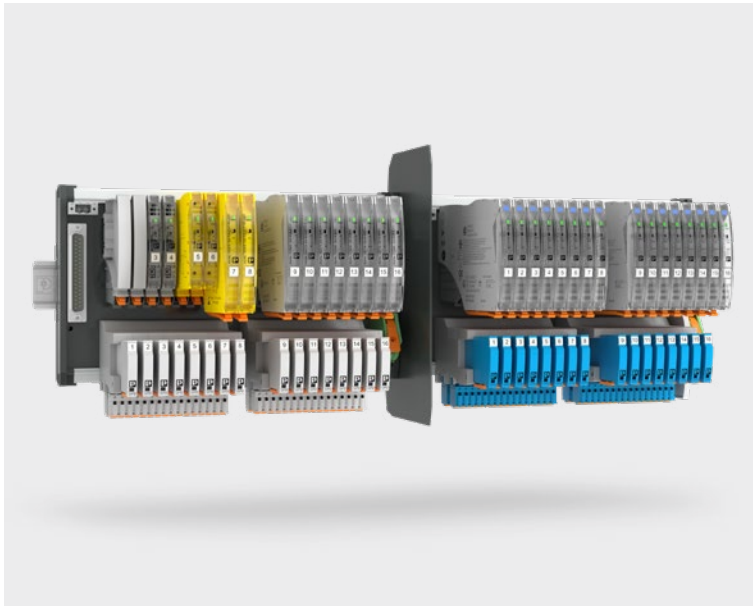
Plug-and-play: Including Ex i, SIL, and surge protection

Switch, measure, and monitor > I/O signal marshalling

Signal marshalling for universal I/O systems

Compact, flexible, and highly functional

VIP I/O-Marshalling combines signal conditioning and signal marshalling in a compact plug-and-play modular system. Eliminate the need for marshalling cabinets and plan type-independent signal paths. Benefit from a wide range of signals and functions.



Main features

- Measure and control Ex i/non-Ex i field signals
- Plug-in modules for AI, AO, DI, DO, T
- Field connection: Push-in Technology
- Controller connection: D-SUB
- Surge protection: up to 40 kA
- Installation altitude: ≤5,000 m amsl
- Temperature range: -40°C ... +70°C
- Approvals: Ex i, SIL 2/3, ATEX, IECEx, UL, CCC Ex



Your advantages

- ✓ Fewer control cabinets, more channels: marshalling and interface level in a unique, compact system
- ✓ Shorter project timelines: plan type-independent signal paths, configure and test flexibly
- ✓ Plug-and-play configuration with various termination boards and plug-in modules
- ✓ Can be modified at any time: fast module replacement without any rewiring
- ✓ Broad signal spectrum, including Ex i, SIL, and surge protection



Play video



Gain more info:
Web code [#4402](#)

Termination Carrier for Siemens ET200SP HA

Coupling to distributed I/O system

The Termination Carrier enables the error-free plug-and-play connection of various signal types to your Siemens SIMATIC ET200SP HA. The use of conventional DIN rail devices requires just one engineering design for DIN rail and system applications.



Main features

- For MACX Analog Ex i NAMUR isolation switch amplifier
- For MACX Analog Ex i repeater power supply and input signal conditioner
- For MACX Analog Ex i output signal conditioner
- For PSR-MINI-SIL coupling relay

Your advantages

- ✓ Fast signal connection to your Siemens SIMATIC ET200SP HA
- ✓ Space-saving due to the compact design
- ✓ High system availability with the robust housing with mechanically decoupled termination PCB
- ✓ Simple wiring with pluggable, coded cable sets and preassembled system cables
- ✓ Service-friendly due to hot-swap module replacement and easily accessible connection elements



Gain more info:
Web code **#3742**

Resistor network for proximity switches

For line fault monitoring

The resistor network is used for line fault monitoring of floating contacts and proximity switches via isolation switch amplifiers or digital inputs in accordance with NAMUR IEC/EN 60947-5-6. Benefit from easy handling and the compact design.



Main features

- Compact design: (W x H x D)
35.1 mm x 14.2 mm x 14.2 mm
- Resistance values (parallel / series): 10 k Ω / 1 k Ω , 10 k Ω / 1.5 k Ω , 22 k Ω / 620 Ω , 22 k Ω / 680 Ω
- IP20, with accessories up to IP67

Your advantages

- ✓ Simple way of using floating contacts and proximity sensors to perform line fault monitoring
- ✓ Compatible with isolation amplifiers and digital input modules in accordance with NAMUR IEC/EN 60947-5-6
- ✓ Particularly space-saving: can be integrated into transmitter wiring spaces
- ✓ Simple wiring with convenient Push-in Technology



Gain more info:
Web code **#3729**

Magnetic safety switches

Safe condition acquisition

The PSR-MIS magnetic safety switches monitor movable safety equipment without contact.



Main features

- 3 designs
- Safe series connection up to PL d

Your advantages

- ✓ Proven magnetic switching principle for reliable condition monitoring
- ✓ Simple diagnostics with LED display directly on the sensor
- ✓ Various designs for flexible mounting on doors and hatches



Gain more info:
Web code [#3734](#)

Compact safety relays

Maximum safety in the smallest space

The PSRcompact safety relays feature reliable safety technology in a particularly space-saving design. They enable the safe shutdown of machines and systems, meet particularly high safety standards, and can be easily integrated into existing systems.



Main features

- Up to 5 enabling current paths in 17.5 mm housing
- Overall width from 12.5 mm
- Extended temperature range up to 60°C
- TÜV-certified safety up to SIL 3 / PL e
- Push-in connection technology
- Force-guided contacts
- Digital product documentation via DT4I code

Your advantages

- ✓ Compact design for space savings of up to 25% in the control cabinet
- ✓ Compatible with all relevant sensor types for flexible use
- ✓ Easy startup without parameterization or using software
- ✓ Quick installation due to tool-free wiring with Push-in connection technology
- ✓ Robust and durable housing for use in industrial environments



Gain more info:
Web code [#4297](#)



Configuration directly on the device
via rotary coding switches



Software-based configuration
via USB-C connection



Confirmation of the configuration
settings directly on the device

Switch, measure, and monitor > Safety relay modules and sensors

Multifunctional safety relays

All safety functions in one device

With the PSRuni multifunctional safety relay, up to four safety functions can be monitored with just one device. The comprehensive coverage of common safety functions enables flexible configuration and adaptation to individual requirements.



Main features

- Configuration via rotary coding switch on the device or via clipx ENGINEER Device Parameterization software
- Coverage of common safety functions, such as emergency stop, light grid
- Monitoring of up to two safety circuits
- Overall width: 22.5 cm
- Push-in connection technology

Your advantages

- ✓ Universal use by covering all common safety functions
- ✓ Flexible adaptation to individual requirements
- ✓ Space-saving and efficient monitoring of up to four safety functions in a single device
- ✓ Fast startup with easy configuration
- ✓ Can be used in applications up to the highest safety level, SIL 3/PL e



Gain more info:
Web code #3653

Over-speed and zero-speed safety relays

Safe motion monitoring

The PSR-MM20 safe over-speed and zero-speed safety relay is designed for motion monitoring. The PSR-MM20 detects the overspeed or zero speed of rotating parts in systems and machines.



Main features

- Connection of two 3-wire PNP proximity switches
- Monitoring of parameterizable speed thresholds
- Flexible frequency setting up to 31.5 Hz (in 0.5 Hz increments) or up to 315 Hz (in 5 Hz increments)
- Analog output (0 - 10 V) for monitoring speed values
- 17.5 mm overall width

Your advantages

- ✓ Safe motion monitoring up to Cat. 4/PL e in accordance with EN ISO 13849-1 and up to SIL 3 in accordance with EN IEC 62061
- ✓ Easy, software-free configuration directly on the device
- ✓ Compatible with 3-wire PNP proximity switches as well as Pulsotronic push-pull proximity switches, making it very easy to meet sensor signal requirements



Gain more info:
Web code #3785

Safety relays for the Ex area

Monitoring signal generators in zone 0

The PSR-MC35 Ex i safety relay has intrinsically safe input contacts and is particularly suitable for monitoring single- or two-channel signal generators, such as emergency switching off switches or safety door switches, in potentially explosive environments.



Main features

- Certified in accordance with IECEx and ATEX
- 2 intrinsically safe inputs up to zone 0
- Suitable for installation in zone 2
- Overall width: 17.5 mm
- Automatic or manual, monitored start
- Push-in Technology

Your advantages

- ✓ Corrosion protection with additional conformal coating of the printed circuit board
- ✓ Highly reliable even in extended temperature ranges up to +60°C
- ✓ High-level safety even under extreme ambient conditions up to PL e or SIL 3
- ✓ Reduced wiring time with Push-in Technology
- ✓ Space savings with the compact overall width



Gain more info:
Web code **#3733**



New WLAN modules with Wi-Fi 6/6E



Easy panel and profile mounting



Fast data transmission with flexible power supply

Wi-Fi 6/6E for powerful networks

The new generation of WLAN modules

The new WLAN 2300 access point and WLAN 1000 client series with Wi-Fi 6/6E offers reliable real-time communication, high reliability, and supports large networks with many devices. Wi-Fi 6E also uses new transmission channels in the 6 GHz band for better performance.



Main features

- Wi-Fi 6/6E (2.4 / 5 / 6 GHz, depending on version and country)
- Gross data rate up to 2,400 Mbps
- Fast roaming in cellular applications
- Controllable via REST API
- Maximum security with WPA2 / WPA3
- Ethernet with 10/100/1,000 Mbps

Your advantages

- ✓ Wi-Fi 6 (IEEE 802.11AX) for better resource utilization, stability, and network capacity
- ✓ Wi-Fi 6E with new, free channels in the 6 GHz band
- ✓ Quick change of WLAN cells through software optimization of the roaming function
- ✓ WLAN clients support all three bands: 2.4 GHz, 5 GHz, and new 6 GHz
- ✓ Very high level of security with WPA 3 and security by design (IEC 62443-4-1)

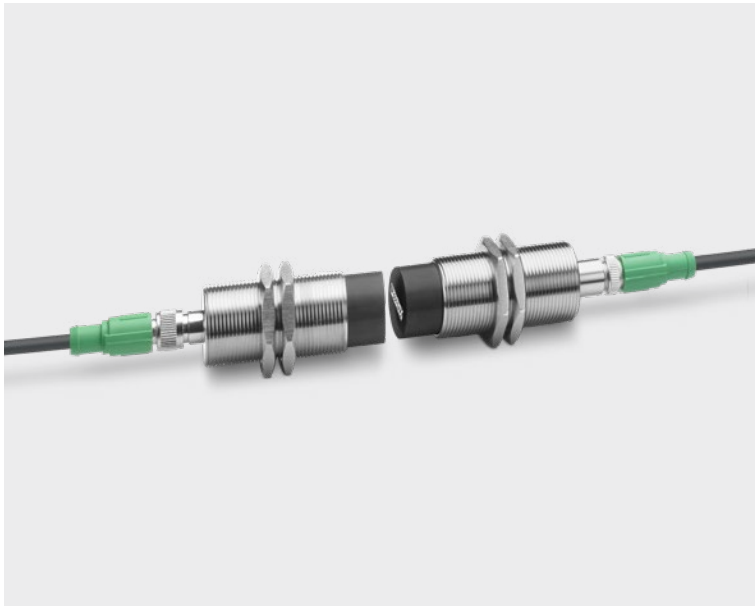


Gain more info:
Web code **#3978**

IO-Link couplers

Contactless power and data transmission

IO-Link couplers enable the quick and easy contactless supply of IO-Link devices and their wear-free and maintenance-free connection to the control system. This helps to avoid unplanned and unforeseeable production stoppages as well as regular maintenance intervals.



Main features

- Bidirectional IO-Link transmission up to 230.4 kbps (COM3)
- Contactless power transmission up to 18 W (24 V DC / 0.75 A)
- Range of up to 7 mm
- Compact M30, IP68 stainless steel housing with M12 screw connection technology



Your advantages

- ✓ Contactless – no wear and no maintenance
- ✓ Universal – in addition to power, IO-Link data or two digital signals can also be transmitted
- ✓ Compact – round M30 design for space-saving mounting
- ✓ Flexible – a high degree of freedom when it comes to installation due to variable proximity options
- ✓ Plug-and-play – no configuration needed



Gain more info:
Web code **#3784**

Outdoor cellular routers

Universal cellular connection for worldwide use

Cellulink is a family of industrial outdoor cellular routers for connecting network-capable devices to the cellular network. The devices certified in accordance with IEC 62443-4-2 have integrated antennas and can be used worldwide.



Main features

- Integrated antennas
- Global cellular modules
- Cybersecurity: IEC 62443-4-2
- Variety of performance classes: 4G CAT1, 4G CAT4, 5G
- Outdoor housing: IP66 / IP67 / IP68, and IK10
- Mast, panel, and control cabinet mounting
- Dual SIM and provider fallback
- GNSS: positioning and time synchronization

Your advantages

- ✓ Cost and space savings through the integration of the antennas into the housing
- ✓ Time savings through faster installation with PoE and the elimination of antenna mounting
- ✓ High level of cybersecurity with certification in accordance with IEC 62443-4-1 and IEC 62443-4-2
- ✓ Worldwide use in 4G and 5G networks
- ✓ Configuration and firmware updates with web-based management, REST API, and device and update management

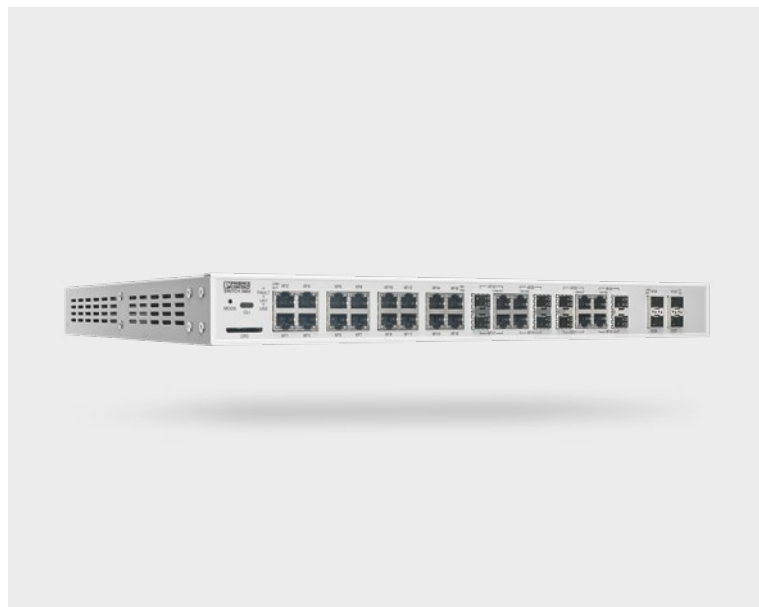


Gain more info:
Web code [#3767](#)

Managed switches in the 19" format

High port density for convergent networks

The new FL SWITCH 5900 series offers high data performance, comprehensive security functions, and modern TSN mechanisms. The managed switches in 19" format with flexible port options are the forward-thinking solution for demanding industrial networks.



Main features

- 19" backbone switch with high port density and flexible port options
- TSN function set with precise time synchronization
- Comprehensive security functions
- Compatible with the popular managed switch 2000 series
- Optional redundant power supply

Your advantages

- ✓ Robust, high-availability, and secure network solutions
- ✓ Extensive options for setting up time-critical applications
- ✓ Quick and easy startup
- ✓ Numerous versions for demanding requirements
- ✓ Fast and efficient data transmission



Gain more info:
Web code **#3783**

Robust managed switches

Ideal for demanding environments

The Layer 2 switches in the Raptor portfolio provide reliable operation even under extreme ambient conditions. The Raptor portfolio meets the stringent requirements of the IEC 61850-3 and IEEE 1613 standards and is therefore ideal for applications in critical infrastructures.



Main features

- Powerful Layer 2 scope of functions
- High speed with Gigabit support
- Extended temperature range (-40°C ... +70°C)
- High port density

Your advantages

- ✓ Reliable use even under extreme ambient conditions with IEC 61850 and IEEE 1613 certification
- ✓ Flexible installation options with 19" rack or DIN rail mounting
- ✓ Variety of versions enables a wide range of possible applications

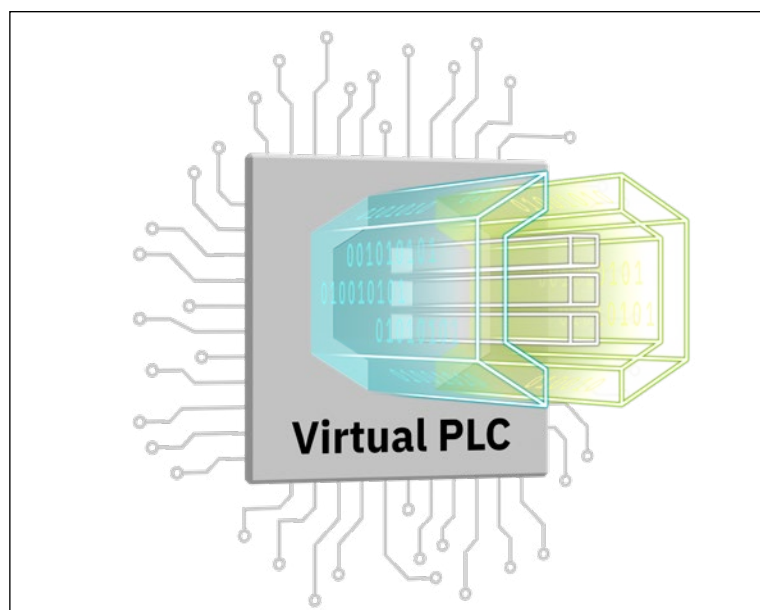


Gain more info:
Web code [#3732](#)

Virtual PLCnext Control

Efficient and flexible control solutions

Virtual PLCnext Control offer greater scalability, flexibility, and cost efficiency in automation. As software in an OCI container, they enable seamless integration, combine OT and IT security, and increase the hardware independence of your control solution.



Main features

- System architecture based on the open PLCnext Technology ecosystem
- Programming in accordance with IEC 61131-3 and high-level languages such as C++, C#, and Matlab
- PROFINET controller and/or device
- Configuration using web-based management
- Virtual PLCnext Control in OCI container

PLCnext Technology 
Designed by Phoenix Contact

Your advantages

- ✓ Software-based control system with open PLCnext Technology architecture
- ✓ Easy scaling and adaptation to new requirements without physical retrofitting
- ✓ Direct connection to IT systems, cloud services, and IIoT platforms for data-driven applications
- ✓ Minimizes investment costs as no special hardware is required
- ✓ Maximum cybersecurity with container-based technology



Gain more info:
Web code #3764

PLCnext Control for energy applications

Controller for critical infrastructures

A scalable and secure control system based on PLCnext Technology: This controller has been specially developed for harsh environments in power generation and distribution. The system can be extended with smart software solutions and specially certified I/Os.



Main features

- Extended temperature range: -40°C ... +70°C
- EMC requirements in accordance with IEC 61850 Class H
- Extended device monitoring with integrated watchdog and live relay contact
- 3 independent Ethernet interfaces
- IEC 60870-5-101 and IEC 60870-5-104 remote control protocols integrated

PLCnext Technology 
Designed by Phoenix Contact

Your advantages

- ✓ High-availability PLCnext Control for power generation and distribution
- ✓ Developed for extreme environmental conditions in accordance with IEC 61850-3
- ✓ Compact and modular I/O system for easy extension
- ✓ Cybersecurity in accordance with IEC 62351-3 and IEC 62443 (SL2)
- ✓ Easy function extension with apps from the PLCnext Store



Gain more info:
Web code **#3765**

PLCnext Control for simple tasks

Compact. Certainly. CRA-compliant.

The modular PLCnext Control is the modern entry-level solution into the world of PLCnext Technology. As a high-performance small-scale controller, it offers an attractive price-performance ratio. CRA-compliant and certified in accordance with IEC 62443-4-2, it meets high security requirements.



Main features

- CRA-compliant controller with IEC 62443-4-2 certification
- 2-core processor (i.MX93, 2 x 1.7 GHz), 1 GB RAM, 1 ESM
- 1.1 GB internal memory, 1 network interface
- Cycle time: 4 ms, 8 MB program memory
- Integrated bus socket for easy mounting
- Combination of high-level language and IEC 61131-3

PLCnext Technology 
Designed by Phoenix Contact

Your advantages

- ✓ Due to certification in accordance with IEC 62443-4-2, the controller meets high cybersecurity and CRA compliance requirements even in the entry-level segment
- ✓ Real-time-capable Linux operating system for deterministic and reliable execution of time-critical processes
- ✓ The open architecture allows programming in high-level languages and expansion via apps from the PLCnext Store



Gain more info:
Web code **#3983**

The new generation of building controller

Flexible platform for building automation

The modular controller in DIN rail-mount format offers maximum flexibility in terms of hardware and software. Application-specific apps from the PLCnext Store, configurable I/Os, numerous interfaces, and extension modules make it the ideal platform for smart building applications.



Main features

- Compact DIN rail-mount format
- Integrated I/Os and interfaces for Ethernet, RS-485, KNX, and USB
- Connection of up to 16 I/O modules via SPE
- Plug-in touch display
- Installation of apps from the PLCnext Store
- Cybersecurity by design: secure boot, signed firmware, CRA-ready

PLCnext Technology 

Designed by Phoenix Contact

Your advantages

- ✓ Perfect integration in KNX and basis for professional smart building projects with IP-Symcon app (PLCnext Store)
- ✓ Open automation platform for software development by third-party providers
- ✓ Open and future-proof technology for long-term investment security
- ✓ Maximum flexibility for control, visualization, and data acquisition
- ✓ Cradle-to-cradle sustainability label considered in the design



Gain more info:
Web code **#4296**

Controllers for central building automation

When reliability has a high priority

The ILC 2x50 BI product family has been extended with a more powerful performance class to realize complex projects with the requirements of the CRA. With up to 63 I/O extension modules, the building controller is ideal for automating primary systems or entire floors.



Main features

- Quad-core processor with increased memory
- Extended safety functions
- Integrated four-port Ethernet switch
- Up to 63 I/O modules can be connected
- Engineering with Emalytics and the Niagara Framework®
- Integrated web server
- 2 USB-C connections

powered by
niagara
framework®

Your advantages

- ✓ Future-proof with increased computing power
- ✓ Full security, because it meets the Cyber Resilience Act (CRA) requirements
- ✓ IoT and building protocols can be integrated seamlessly
- ✓ Simple replacement of the ILC 2050 BI (-L) for retrofitting



Gain more info:
Web code **#3914**

DALI module for building controller

Multi-master-capable in accordance with DALI-2 standard

The extension module adds four lines for DALI actuators and sensors to a building controller from the Catan product family. The module also includes eight digital outputs, which can alternatively be used as inputs. At six HP, the DIN rail-mounted device is as compact as you would expect from Catan.



Main features

- Module for 4 independent DALI lines
- Multi-master capability for the integration of DALI sensors
- DiiA certification
- Integrated DALI bus power supply
- 8 digital outputs, alternatively configurable as inputs
- DIN rail-mounted housing with 6 HP like all Catan modules
- Plug-in touch display

Your advantages

- ✓ Space and cost savings due to high I/O density
- ✓ Integration of a large number of DALI devices (max. 256 actuators and 252 sensors)
- ✓ High-performance extension bus via SPE enables distributed installation
- ✓ Commissioning and maintenance supported by the plug-in display for local operation
- ✓ Cradle-to-cradle sustainability label considered in the design



Gain more info:
Web code **#3987**

I/O module for building controller

24 I/Os for analog and digital signals

The extension module adds 24 flexibly configurable I/O channels for analog and digital signals to a building controller from the Catan product family. At 6 HP, the DIN rail-mounted device is as compact as you would expect from Catan.



Main features

- Universal I/O channels for a wide range of functions
- 8 channels for universal inputs
- 8 channels for universal outputs for 0 ... 10 V or digital signals
- 16 channels for digital outputs
- 24 channels for digital inputs and counter function
- Plug-in touch display

Your advantages

- ✓ Space and cost savings due to high I/O density and flexible configurability
- ✓ Control of analog actuators such as valves and fans with 0 ... 10 V interface
- ✓ High-performance extension bus via SPE (Single Pair Ethernet) enables distributed installations
- ✓ Commissioning and maintenance supported by the plug-in display for local operation



Gain more info:
Web code **#3988**

Digital I/O module

Relay module with eight isolated outputs

The I/O module enables the floating switching of resistive loads at 24 V with solid-state technology. Extremely fast, wear-free switching processes and the electrical isolation of all outputs ensure high operational safety and disturbance-free system operation.



Main features

- 8 floating digital outputs
- Solid-state relays per output instead of mechanical relays
- Electrical isolation between all outputs
- Nominal current of each output: up to 6 A
- Internal power dissipation: max. 1.3 W per output
- Device rating plate stored

Your advantages

- ✓ Extremely fast switching up to 100 µs enables precision responses in automation applications
- ✓ Electrically isolated outputs prevent ground loops and interference coupling
- ✓ High-level operational safety with channel-by-channel isolation, even in the event of an error
- ✓ Eight relays in a compact Axioline Smart Element design for saving space in the control cabinet

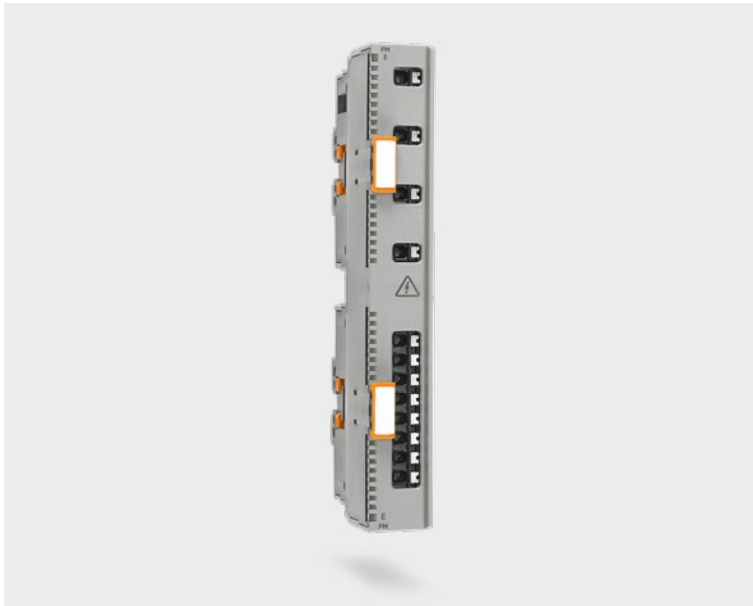


Gain more info:
Web code #4292

Power measurement module

I/O module for three-phase power measurement

The compact I/O module measures three-phase power efficiently in a width of just 15 mm. The module impresses with its fast startup, high packing density, and simple integration into existing automation systems.



Main features

- Three-phase power measurement in a width of 15 mm
- Nominal voltage: 5 V AC ... 480/830 V AC
- Measuring range: 0 V AC ... 600/1,035 V AC
- Nominal current: 0 A AC ... 5 A AC
- Measurement category CAT III 300 V / CAT II 600 V

Your advantages

- ✓ Compact design saves space on the DIN rail
- ✓ Easy handling with minimal parameterization effort
- ✓ Quickly ready for immediate use
- ✓ High packing density enables efficient three-phase measurement



Gain more info:
Web code [#4290](#)

I/O module with digital inputs and outputs

Connection of up to 16 sensors and actuators

The digital mixed module records or switches up to 16 digital 24 V DC signals. Each channel can be used flexibly as an input or output – without any parameterization. Maximum configuration in a width of just 15 mm for space-saving and versatile applications.



Main features

- 16 digital channels for 24 V DC signals
- Freely configurable channels as input or output
- Diagnostic function by mapping the output states in the input process image
- Inputs in accordance with IEC 61131-2, type 1 and type 3
- Short-circuit and overload protection
- Output current per channel: max. 0.5 A

Your advantages

- ✓ Inputs and outputs in one module save space and reduce hardware
- ✓ Each channel can be used flexibly as an input or output for optimum adaptation
- ✓ Output states in input data facilitate diagnostics and reduce downtime
- ✓ Compact design reliably records digital signals in a width of 15 mm
- ✓ Safe signal processing ensures high operational safety in compact applications



Gain more info:
Web code [#4291](#)

Flat slot cover

Protection for an unused I/O slot

The new slot cover enables the inexpensive protection of an unused Axioline Smart Element slot on an Axioline F backplane.



Main features

- Latching in the slot
- Installed height: 20.8 mm
- Degree of protection: IP20
- Temperature range: -40 °C ... +70 °C

Your advantages

- ✓ ESD protection ensured for an unused slot
- ✓ Inexpensive alternative to the existing AXL SE SC and AXL SE SC-A slot covers
- ✓ Tool-free mounting and removal
- ✓ Minimal space required for storage



Gain more info:
Web code [#3984](#)

I/O module for temperature measurement

Connection of resistance temperature detectors

The module is designed for use in an Axioline F I/O station. It is used to acquire signals from resistance temperature detectors in potentially explosive areas, zone 0 and zone 1. The module supports all common platinum and nickel sensors.



Main features

- 8 analog input channels for connecting resistance temperature detectors (RTDs)
- Linear inputs up to 10 k Ω
- Extended temperature range of -40°C ... +70°C
- Intrinsically safe inputs
- Connection of sensors in 2-, 3-, and 4-conductor technology

Your advantages

- ✓ Meets the requirements of any application involving the connection of all common RTDs and linear resistance inputs
- ✓ Application flexibility and greater sensor distances through the use of 2-, 3-, and 4-conductor technology
- ✓ High reliability due to an extended temperature range
- ✓ Connection to RTD sensors in zones 0 and 1



Gain more info:
Web code #3609

I/O modules for temperature measurement

Connection of resistance temperature detectors

The new RTD modules have been designed for the high-availability Axioline P remote I/O system. They are used to acquire signals from resistance temperature detectors. The modules support all common platinum and nickel sensors.



Main features

- 8 analog input channels for connecting resistance temperature detectors (RTDs)
- Linear inputs up to 10 k Ω
- Extended temperature range of -40°C ... +70°C
- Hot-swap-capable I/O modules
- Intrinsically safe and non-intrinsically safe inputs
- Connection of sensors in 2-, 3-, and 4-conductor technology

Your advantages

- ✓ Meets the requirements of any application involving the connection of all common RTDs and linear resistance inputs
- ✓ Application flexibility and greater sensor distances through the use of 2-, 3-, and 4-conductor technology
- ✓ High reliability and availability thanks to an extended temperature range and system-wide hot-swap capability



Gain more info:
Web code #3611

IO-Link I/O boxes with M8 connection technology

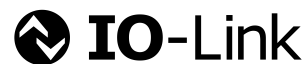
Connection of up to eight sensors and actuators

The Axioline E devices can be connected to an IO-Link master via an IO-Link A port. You can thus acquire and output digital signals via IO-Link. An IO-Link master allows use within different networks.



Main features

- Connection to an IO-Link master with M12 connector (A-coded, 4-pos.)
- Type A port
- IO-Link specification V1.1.4
- Connection of up to 8 digital inputs and outputs with M8 connectors (A-coded, 3-position)
- Diagnostic and status indicators
- IP65 / IP67 / IP69 degree of protection



Your advantages

- ✓ Connection of sensors and actuators in immediate proximity to the process
- ✓ Space savings with the compact design
- ✓ Long service life and high system availability due to the robust design



Gain more info:
Web code [#4295](#)

Analog IO-Link I/O box

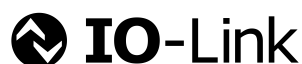
Connection of up to four analog sensors

The Axioline E device can be connected to an IO-Link master via an IO-Link A port. This allows you to record analog signals via IO-Link. An IO-Link master allows use within different networks.



Main features

- Connection to an IO-Link master with M12 connector
- Type A port
- IO-Link specification V1.1.4
- Connection of up to 4 analog inputs with M12 connectors
- Connection of sensors in 2-, 3-, and 4-conductor technology
- Voltage ranges:
0 V ... 10 V, ± 10 V, 0 V ... 5 V, ± 5 V



Your advantages

- ✓ Connection of sensors in the immediate vicinity of the process
- ✓ Powerful with minimal cabling effort
- ✓ Quick installation with M12 push-pull fast-connection technology
- ✓ Long service life and high system availability due to the robust design
- ✓ Optimum connectivity for future-proof automation



Gain more info:
Web code [#4294](#)

EtherCAT® SubDevices for field installation

Connection of digital sensors and actuators

The Axioline E devices are designed for use within an EtherCAT® network. They are used for the acquisition and output of digital signals. The devices are suitable for use without a control cabinet in harsh industrial ambient conditions.



Main features

- Connection with M12 connectors with push-pull fast connection or screw connection
- Degree of protection: IP65 / IP67 / IP69
- Support of EtherCAT® with a min. cycle time of 100 µs
- Supported mailbox protocols: CoE, FoE
- Supported synchronization modes: DC, SM



Your advantages

- ✓ Connection of sensors and actuators in immediate proximity to the process
- ✓ Powerful with minimal cabling effort
- ✓ Quick installation with M12 push-pull fast-connection technology
- ✓ Long service life and high system availability due to the robust design



Gain more info:
Web code #3985

IO-Link I/O box for field installation

Connection of up to eight digital sensors

This Axioline E device can be connected to an IO-Link master via an IO-Link B port. You can thus acquire and output digital signals via IO-Link. An IO-Link master allows use within different networks.



Main features

- Connection to an IO-Link master with M12 connector (A-coded, 4-pos.)
- Type A port
- IO-Link specification V1.1.3
- Connection of up to 8 inputs or 8 inputs/outputs with M12 connectors (A-coded, 5-pos.)
- IP65 / IP67 / IP69 degree of protection
- Single-channel diagnostics
- 30 mm overall width



Your advantages

- ✓ Connection of sensors and actuators in the immediate vicinity of the process in confined spaces
- ✓ Powerful with minimal cabling effort
- ✓ Quick installation with M12 push-pull fast-connection technology
- ✓ Long service life and high system availability due to the robust design
- ✓ Optimum connectivity for future-proof automation



Gain more info:
Web code **#3723**

Rugged web panels

For demanding environments

The new Rugged WP 6000 series features robust web panels for demanding environments. With their extended temperature range, high impact strength, and readability in direct sunlight, they are ideal for rugged outdoor operating applications.



Main features

- Extended temperature range: (-30°C ... +65°C)
- High impact strength (40g) and vibration resistance (5g)
- Displays readable in direct sunlight with UV and IR protection
- Responsive PCAP touch screen displays from 7 to 15.6"
- Integrated motion and ambient light sensor

Your advantages

- ✓ Robust hardware for harsh environments with 3 mm thick glass, larger heatsink, and stronger housing
- ✓ Open and usable in any third-party system
- ✓ Can be operated with gloves and suitable for use in damp environments
- ✓ Ideal for any HTML5 or browser-based visualization



Gain more info:
Web code [#3912](#)

Flat screen touch monitors

For industry

VL3 FPM are flat screens and extend the VL3 panel PC portfolio. These monitors combine the look, feel, and mechanical properties of the VL3 PPC and xP 6000 HMIs and offer extended connection options compared to the BL FPM series monitors.



Main features

- Large selection of display sizes
- Same look as the xP 6000 HMI panels and VL3 panel PCs
- Same mechanical properties as the xP 6000 HMI panels and VL3 panel PCs
- Flexible installation with or without control cabinet
- Extended connectivity options

Your advantages

- ✓ Same appearance and same cutout dimensions as TP 6000/ WP 6000 HMIs and VL3 panel PCs
- ✓ Improved connection options, including 2 x USB output and optional VGA, DP, or HDMI signal
- ✓ Can be operated wearing gloves and suitable for humid ambient conditions



Gain more info:
Web code [#3724](#)

The new edge device

Seamless IT/OT integration

The new edge device, VL3 UPC 2440 EDGE, offers unparalleled simplicity and openness for PLC controllers. Based on the VL3 box PC, it enables data to be processed and stored directly in the machine.



Main features

- Ready-to-use edge device for secure collection and evaluation of local data
- Complete Ubuntu Pro Desktop operating system from Linux
- Easy connection to IT systems, cloud services, and IoT platforms
- Ideal for implementing artificial intelligence

Your advantages

- ✓ Ubuntu Pro Desktop operating system that can be easily extended
- ✓ Real-time Profinet controller with PLCnext Technology
- ✓ High performance for data acquisition and analysis
- ✓ Container-based Virtual PLCnext Control for flexible and scalable solutions
- ✓ Easy data exchange between PLCnext Technology and Linux



Gain more info:
Web code **#3836**

LoRaWAN soil moisture sensor

Collecting soil data

The LoRaWAN soil moisture sensor can be used to determine the current condition of the soil. In order to use the collected soil moisture, temperature, and conductivity data for environmental monitoring, the sensor communicates with the IoT platform via a LoRaWAN gateway.



Main features

- Volumetric water content measured at a soil depth of 30 cm
- LoRaWAN device
- Battery life of up to 8 years
- IP67 degree of protection
- Measured value memory (6 measured values)

Your advantages

- ✓ Easy to adapt to different soil types
- ✓ 100% maintenance-free
- ✓ Completely wireless and therefore freely positionable
- ✓ Easy integration into third-party systems using a JavaScript library
- ✓ Robust and impact-resistant housing allows the sensor to be hammered in using a rubber hammer

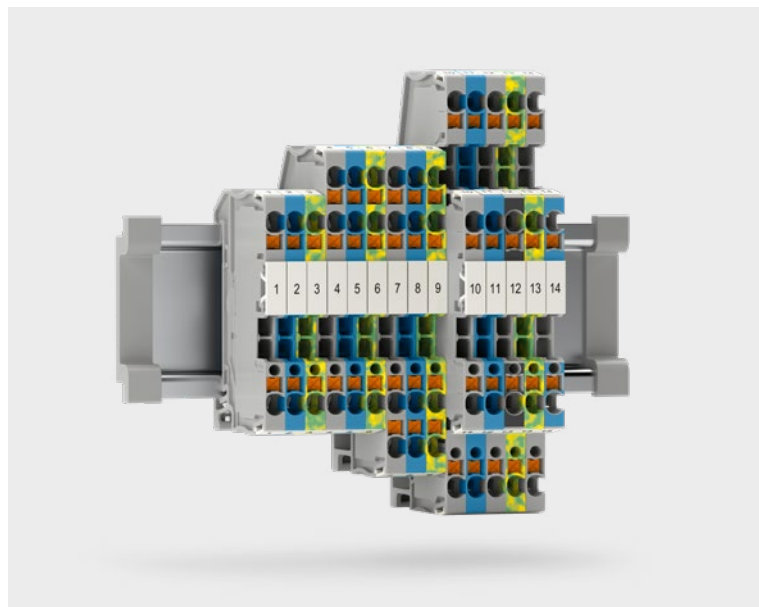


Gain more info:
Web code **#3659**

Terminal blocks with Push-X technology

For conductor cross sections from 0.34 mm²

Discover the new Push-X terminal blocks with a nominal cross-section of 1.5 mm². The terminal blocks enable the wiring of rigid and flexible conductors of between 0.34 and 2.5 mm². Push-X technology allows tool-free installation, even without ferrules.



Main features

- Push-X technology
- Nominal cross-section: 1.5 mm²
- Conductor cross-section: 0.34 mm² ... 2.5 mm²
- 22 AWG ... 14 AWG
- Nominal current: 17.5 A
- Nominal voltage: 500 V

Push-X Technology 
Designed by Phoenix Contact

Your advantages

- ✓ Light-as-a-feather plugging and superior handling comfort with a contact spring pretensioned in the factory
- ✓ Wiring of all conductor types, whether rigid or flexible with and without ferrules
- ✓ Clear identification of the conductor connection (visual and acoustic)
- ✓ Easy release of the conductors and pretensioning of the contact spring using the orange actuating push button
- ✓ Optimized for manual and automated wiring

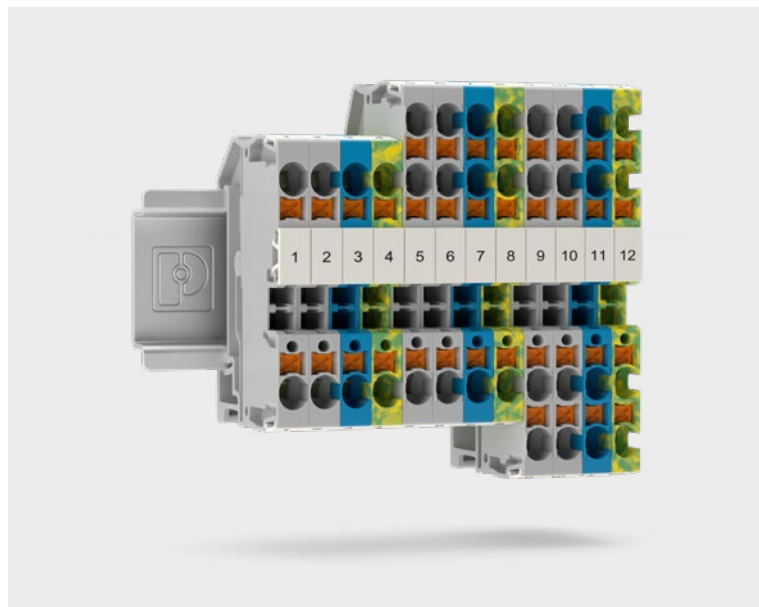


Gain more info:
Web code **#3091**

Terminal blocks with Push-X technology

For consistent wiring

The Push-X feed-through terminal blocks with a nominal cross-section of 4 mm² complete the cross-section range of Push-X terminal blocks. The new terminal blocks enable the consistent wiring of conductor cross-sections between 0.34 and 25 mm² without using tools.



Main features

- Push-X technology
- Nominal cross-section: 4 mm²
- Conductor cross-sections: 0.5 mm² ... 6 mm²
- 20 AWG ... 10 AWG
- Nominal current: 32 A
- Nominal voltage: 500 V

Push-X Technology 
Designed by Phoenix Contact

Your advantages

- ✓ Superior handling comfort with a factory-pretensioned contact spring
- ✓ Wiring of all conductor types, whether rigid or flexible with and without ferrules
- ✓ Clear identification of the conductor connection (visual and acoustic)
- ✓ Easy release of the conductors and pretensioning of the contact spring using the orange actuating push button
- ✓ Optimized for manual and automated wiring

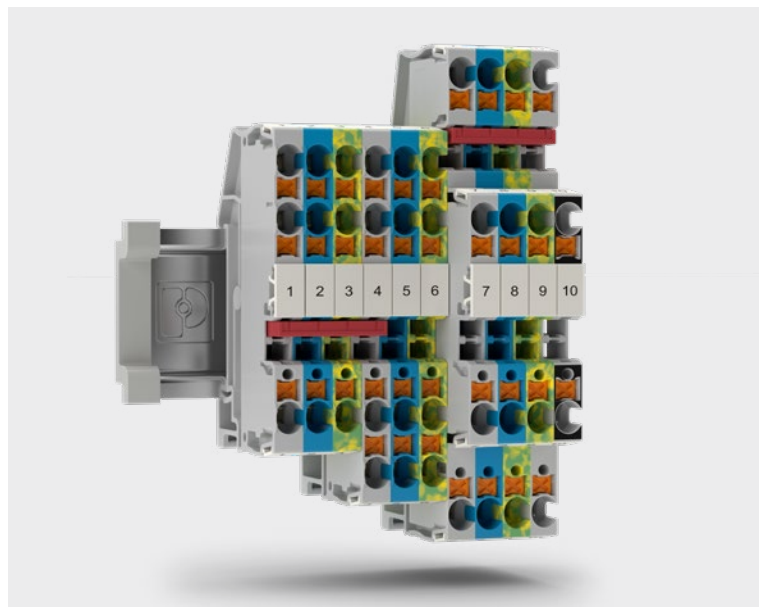


Gain more info:
Web code **#4309**

Multi-conductor and multi-level terminal blocks with Push-X

For compact potential distribution

The new multi-conductor terminal blocks and multi-level terminal blocks with a nominal cross-section of 4 mm² enable space-saving and efficient potential distribution. They supplement the XT-4 family portfolio and are designed for conductor cross-sections between 1 and 6 mm².



Main features

- Push-X technology
- Nominal cross-section: 4 mm²
- Conductor cross-section (flex): 1.5 mm² ... 6 mm²
- 16 AWG ... 10 AWG
- Nominal current: 32 A
- Nominal voltage: 1,000 V
- Number of connections: 3 to 4

Push-X Technology 
Designed by Phoenix Contact

Your advantages

- ✓ Space-saving and efficient potential distribution
- ✓ Quick installation of all types of copper conductors with and without ferrule
- ✓ Maximum reliability – the clamping mechanism automatically ensures full conductor engagement
- ✓ Instant confirmation: perceptible, visible, and audible feedback during installation
- ✓ Reliable contact without any force: just plug it in – the preloaded spring does the rest

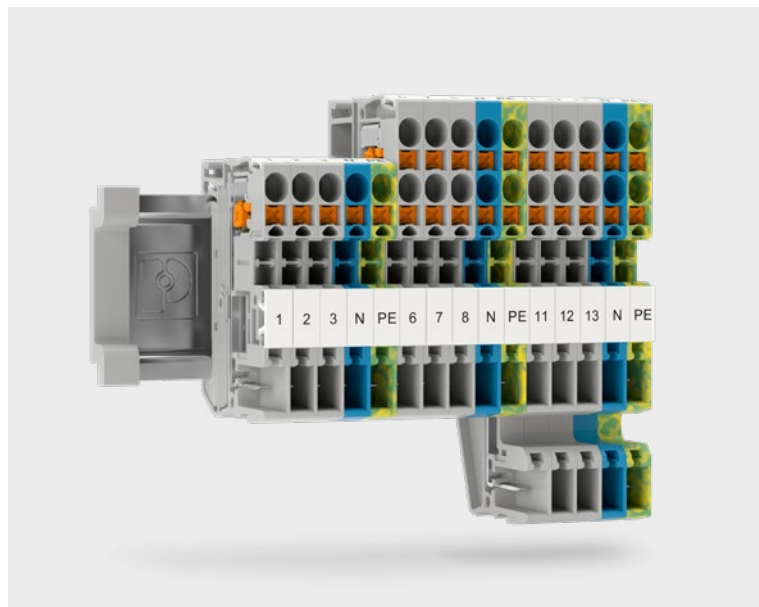


Gain more info:
Web code [#4377](#)

Plug-in terminal blocks with Push-X

Easy connection with COMBI and Push-X

The pluggable terminal blocks with the COMBI plug-in zone and Push-X connection are revolutionizing wiring. Increase efficiency through effortless wiring in the control cabinet with the Push-X connection and connect the field level with preassembled COMBI connectors.



Main features

- Connection technology 1: Push-X connection
- Connection Technology 2: COMBI plug-in zone
- Nominal cross-section: 2.5 mm²
- Conductor cross-sections: 0.5 mm² ... 4 mm²
- 20 AWG ... 12 AWG (calculated in accordance with IEC)
- Current: 24 A
- Voltage: 800 V

Push-X Technology 
Designed by Phoenix Contact

Your advantages

- ✓ Highly convenient operation for all conductor types with the effortless and tool-free direct-connection technology
- ✓ Very fast connection of flexible conductors without ferrules
- ✓ Intuitive connection through visual and haptic feedback from the terminal point
- ✓ Fast conductor release with the locking mechanism in the terminal point
- ✓ Complete flexibility with configurable and standard COMBI connectors with up to 15 positions



Gain more info:
Web code **#3786**

COMBI – pluggable terminal blocks with Push-X

Higher efficiency in cable assembly

The pluggable Push-X terminal blocks with a nominal cross-section of 2.5 mm² enable ergonomic, fast, and reliable wiring. The new Push-X COMBI connector enables one-handed conductor connection, increasing efficiency during wire harness assembly work.



Main features

- Push-X technology
- Universal COMBI connection system
- XP connectors for one-handed operation
- Pluggable double-level and double-level-TWIN terminal blocks
- Nominal cross-section: 2.5 mm²
- Conductor cross-section: 0.34 mm² ... 4 mm² / 20 AWG ... 12 AWG
- Nominal current: 24 A after derating
- Nominal voltage: 800 V IEC and 600 V UL

Push-X Technology 
Designed by Phoenix Contact

Your advantages

- ✓ Superior ergonomics for all conductor types with the self-engaging Push-X direct-connection technology
- ✓ Intuitive connection: perceptible, visible, and audible feedback during installation
- ✓ Quick installation of all types of copper conductors with and without ferrule
- ✓ Easy connection of preassembled cable harnesses with the COMBI connection mechanism
- ✓ Compatible with existing COMBI terminal blocks and connectors

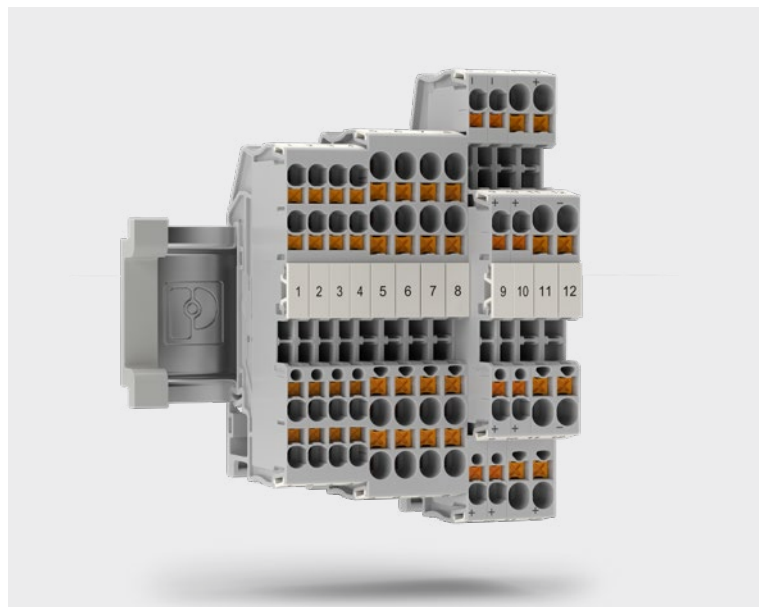


Gain more info:
Web code **#4378**

Diode terminal blocks with Push-X technology

Easily integrated diodes

The diode terminal blocks enable 1N4007-type diodes to be easily integrated into your wiring. Featuring Push-X technology, they also enable tool-free and efficient wiring. The portfolio consists of feed-through and double-level versions.



Main features

- Push-X technology
- Diode type: 1N4007 (0.5 A / 1,000 V reverse voltage)
- Conductor cross-sections (flex) (XT 1,5): 0.34 mm² ... 2.5 mm²
- 22 AWG ... 14 AWG
- Conductor cross-sections (flex) (XT 2,5): 0.5 mm² ... 4 mm²
- 20 AWG ... 12 AWG

Push-X Technology 
Designed by Phoenix Contact

Your advantages

- ✓ Quick installation of all types of copper conductors with and without ferrule
- ✓ Maximum reliability – the clamping mechanism automatically ensures full conductor engagement
- ✓ Instant confirmation: perceptible, visible, and audible feedback during installation
- ✓ Plug in without force – the pre-tensioned spring does the rest
- ✓ Simple protection of components against reverse currents and resistances



Gain more info:
Web code #4310

XT 4 function terminals with Push-X

Efficient integration of functions

The new XT 4... function terminals with Push-X technology enable the easy integration of function elements with a nominal cross-section of 4 mm². The portfolio includes lever-type and plug-in fuse terminals, as well as basic disconnect terminal blocks and knife-disconnect versions.



Main features

- Push-X technology
- Nominal cross-section: 4 mm²
- Conductor cross-section (flex): 1.5 mm² ... 6 mm²
- 16 AWG ... 10 AWG
- Lever-type fuse terminal blocks: 500 V / 6.3 A
- Plug-in fuse terminal blocks: 400 V / 10 A
- Disconnect and knife-disconnect terminal blocks: 500 V / 20 A

Push-X Technology[®]
Designed by Phoenix Contact

Your advantages

- ✓ Easy integration of isolating plugs, fuses, and components
- ✓ Reliable contact without any force: just plug it in – the preloaded spring does the rest
- ✓ Quick installation of all types of copper conductors with and without ferrule
- ✓ Complete conductor contact due to the intelligent clamping mechanism
- ✓ Instant confirmation: perceptible, visible, and audible feedback during installation



Gain more info:
Web code [#4379](#)



Full access to all eight signals of the sensor



No additional wiring of the shielding necessary



High level of security with a lockable plug-in test socket

FAME LPIT

Plug-in test system for low-power sensors

FAME LPIT enables the testing of low-power sensors in HV and MV switchgear. The plug-in test socket provides full access to all eight signal contacts of the RJ45 protective device interface, allowing the grid quality to be measured in addition to current, voltage, and frequency.



Main features

- MV/HV test plug: separate signal injection via RJ45 on the secondary side
- Testability in accordance with IEC 61869-10
- MV plug-in test socket: separate U/I sensor inputs
- Conductor connection: RJ45
- HV plug-in test socket: hardwired U/I sensor connections
- Conductor connection: rigid/flexible: 0.2 mm² ... 4 mm²

Your advantages

- ✓ Full access to all eight signals of the sensor (RJ45-based)
- ✓ No additional wiring of the shielding due to die-cast metal housing with separate shield contact
- ✓ No test-specific wiring time required
- ✓ Fast and repeatable creation of test scenarios for testing multiple lines
- ✓ High level of safety, as the cabinet doors remain closed during the relay test

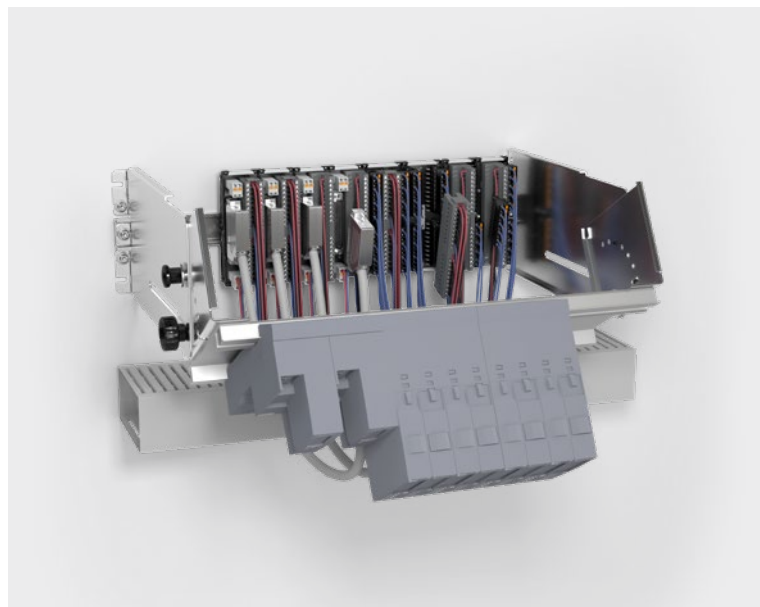


Gain more info:
Web code #2353

Upgrade to Siemens SIMATIC® ET 200SP HA

Plug-and-play migration without rewiring

Using the VARIOFACE Migration Solution, you can quickly migrate I/O signals from ET 200M/S7-300 to ET 200SP HA via plug-and-play. The existing field wiring is retained. This reduces wiring errors, loop checks, and downtime, resulting in greater efficiency and reliability.



Main features

- Migration system with module, cable, and rack
- Migration of analog and digital I/O cards
- Versions for 24 V and 120 V/230 V
- Connection: D-SUB or Push-in connector
- Module width: 40 mm (standard) / 47 mm (special design)
- Halogen-free cable solutions
- Temperature range: -20°C ... +60°C

Your advantages

- ✓ Quick and straightforward upgrade to SIMATIC® ET 200SP HA with precisely tailored and tested solutions
- ✓ Short process downtime due to plug-in migration components
- ✓ Simplified planning and minimization of loop checks by reusing the existing field wiring
- ✓ Space-neutral PLC replacement without control cabinet modifications with the easy-to-install and service-friendly mounting rack



Play video



Gain more info:
Web code **#4316**

M12 push-pull power distributors

Easy power distribution in the field

The H and Y distributors for DC applications with push-pull dual-contour enable tool-free, intuitive installation. With backward compatibility, they can be easily integrated into existing systems and ensure clear, reliable power distribution in the field.



Main features

- M12 push-pull dual-contour for screw connectors and push-pull connectors
- 2 and 4 mounting holes
- Power transmission up to 16 A
- L-coded
- Shielded
- Degree of protection: IP65, IP67
- Standardized in accordance with IEC 61076-2-111 and IEC 61076-2-010

Your advantages

- ✓ Powerful for DC applications up to 16 A and 63 V
- ✓ Flexible, space-saving power distribution and bundling with a compact design
- ✓ Future-proof with the M12 push-pull dual-contour design for screw connectors and push-pull connectors
- ✓ Quick, reliable, and tool-free installation with M12 push-pull connectors
- ✓ Reliable field operation with high degrees of protection and secure shielded transmission



Gain more info:
Web code [#4396](#)

Eight-position M12 push-pull connectors

Simple, fast signal cabling

M12 push-pull connectors enable fast and secure cabling even in confined spaces. They can be installed without tools – they can be simply plugging in. A-coded, 8-pin, preassembled signal cables expand the product line.



Main features

- M12 push-pull internal and external locking
- 8-position, A-coded
- Shielded and unshielded versions
- Male and female connectors
- Advanced Shielding Technology
- PUR halogen-free cable
- Degree of protection: IP65, IP67

Your advantages

- ✓ Quick and reliable connection even in confined spaces and increased cabling densities
- ✓ Time savings of 80% during installation compared to screw connection
- ✓ Connectors with internal and external locking enable flying leads
- ✓ Reliable shield connection with Advanced Shielding Technology
- ✓ Product range standardized in accordance with IEC 61076-2-010 offers a high degree of future-proofing



Gain more info:
Web code [#3662](#)

M12 PUSH-PULL network cables

Easy, reliable data transmission

Pre-assembled M12 push-pull connectors for Ethernet applications offer simple, secure high-speed data transmission. The network cables feature a fast, tool-free installation and are completely shielded with Advanced Shielding Technology.



Main features

- M12 push-pull internal and external locking
- 8-position, X-coded
- Ethernet CAT6_A, 10 Gbps
- Male and female connector versions
- Straight and angled versions
- 360° shielding with Advanced Shielding Technology
- PUR halogen-free cable
- Degree of protection: IP65, IP67

Your advantages

- ✓ Quick and reliable connection even in confined spaces and increased cabling densities
- ✓ Time savings of 80% during installation compared to screw connection
- ✓ Seamless communication with high-speed data transmission up to 10 Gbps
- ✓ Reliable shield connection with Advanced Shielding Technology
- ✓ Product range standardized in accordance with IEC 61076-2-010 offers a high degree of future-proofing



Gain more info:
Web code [#3661](#)

M12 push-pull power device connectors

Power transmission in a small installation space

The M12 push-pull device connectors for power transmission extend the push-pull portfolio. Due to the push-pull fast-locking system, connector pairs can be connected quickly and easily. High currents and voltages are safely transmitted on a small footprint.



Main features

- M12 push-pull internal and external locking
- One M12 device connection for screw and push-pull connectors
- Different housing versions for different installation conditions
- Voltages up to 630 V
- Currents up to 16 A

Your advantages

- ✓ Quick and reliable connection even in confined spaces
- ✓ Time savings of 80% during installation compared to screw connection
- ✓ Easy design-in: countersunk M12 ports for compact device concepts

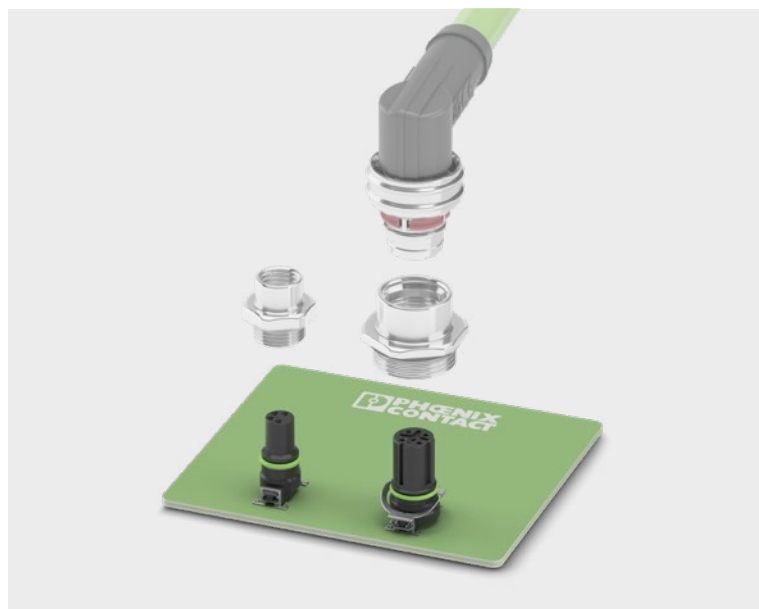


Gain more info:
Web code **#3905**

M8 and M12 device connectors for SMT

Unrivalled flexibility in device design

Phoenix Contact offers a range of device connectors for automated production processes. Whether for signals, data, or power, the uniform installation geometry of the compact M8 and M12 designs makes design-in easier than ever.



Main features

- RoHS II compliant without exemption 6c
- Shorter alignment pins than the market standard
- Optimized shielding concept
- For SMT soldering processes

Your advantages

- ✓ Future-proof design: lead-free in accordance with RoHS II without Exemption 6c
- ✓ Flexible use: PCB can be assembled on both sides
- ✓ Easy mounting: reduction of mounting and spring forces due to new design
- ✓ Plug-and-produce: push-pull locking for fast, safe plugging
- ✓ Flexibility in device design: numerous pin assignments and codings for signals, data, and power



Gain more info:
Web code [#3906](#)

Angled M12 device connector for THR

Increases efficiency in production

The 90° angled connector in M12 format is designed for automated production and enables efficient mounting processes. Thanks to its angled design, the new connector can be positioned flexibly on the PCB and can therefore also be used in confined spaces.



Main features

- Angled design
- For reflow (THR) processing
- Voltages up to 250 V
- Currents up to 4 A
- Available in A and D codings
- 4-, 5-, and 8-pos.
- Unshielded version
- Inverse pin connector pattern

Your advantages

- ✓ Suitable for pick-and-place: automated assembly on the PCB helps to increase efficiency in production
- ✓ Optimized design: shifted center of gravity, thereby “effortless” standing on the PCB without locking clips
- ✓ Flexible: easy positioning and alignment on the PCB even in confined spaces
- ✓ Modular: compatible with the available THR housings



Gain more info:
Web code **#3716**

M17 hybrid connectors in accordance with the IEC standard

3-in-1 solution with the ONECLICK fast-locking system

The M17 PRO hybrid connector in accordance with the IEC 61076-2-117 standard features maximum compatibility and flexibility for a wide range of applications. The 3-in-1 solution with patented ONECLICK fast-locking system transmits data, signals, and power via just one connector.



Main features

- Pin assignment based on IEC 61076-2-117
- Daisy chain-capable 3-in-1 solution
- Available in 50 V and 630 V versions
- Installation altitude up to 3,000 m
- Currents up to 16 A
- Connection cross-section of the power pins up to 1.5 mm²
- ONECLICK fast-locking system
- Degree of protection: IP66, IP68 (2 m / 24 h)

Your advantages

- ✓ Maximum compatibility and flexibility with the first IEC-standardized M17 interface
- ✓ 3-in-1 solution for the transmission of data, signals, and power
- ✓ Maximum space savings with a reduced installed height compared to the standard M17
- ✓ Error-free mounting with the color and mechanical coding in the pin connector pattern
- ✓ 70% time savings during installation with the tool-free ONECLICK fast-locking system



Play video



Order sample



Gain more info:
Web code **#3898**

M23 hybrid PCB connectors

Space-saving 3-in-1 solution

The new, space-saving M23 hybrid device connectors for wave soldering processes reliably transmit data, signals, and power. They feature improved EMC properties and reliability with short distances and the elimination of electrical transfer points.



Main features

- Complete system comprising PCB, device, and field connectors as well as hybrid cables
- Hybrid pin connector pattern: 4+4+4+PE
- Voltages up to 630 V AC / 800 V DC
- Currents up to 30 A
- Data rates of up to 100 Mbit (CAT5)
- For wave soldering processes
- RoHS II compliant without exemption 6c
- UL approval: UL 2237 / PVVA

Your advantages

- ✓ Reliable transmission of signals, data, and power in a single connector
- ✓ 80% faster mounting and 60% less installation space compared to litz wire assemblies
- ✓ Cost reduction due to the elimination of additional PCB connectors
- ✓ Reduction of PCB complexity and EMC risks
- ✓ Elimination of work steps containing high error potentials

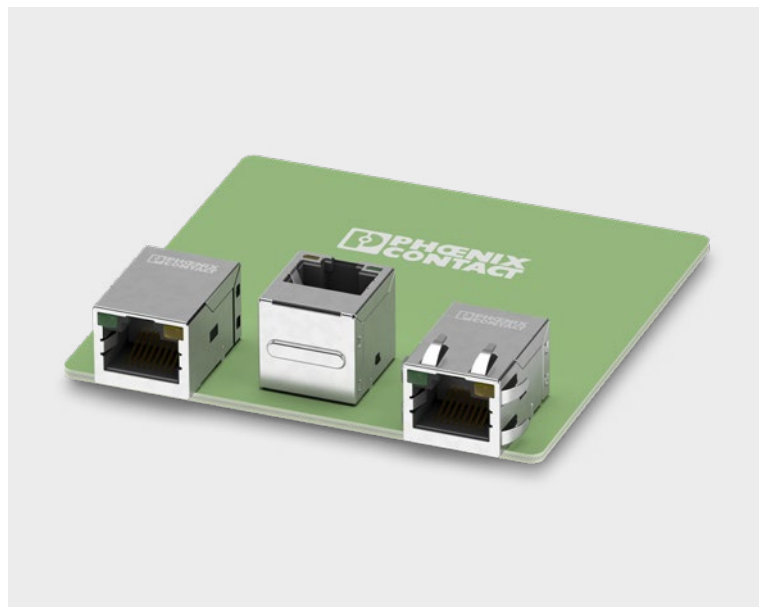


Gain more info:
Web code **#3907**

RJ45 magnetic jacks

Suitable for THT wave soldering and THR soldering

The new RJ45 PCB connectors with integrated transformer are suitable for wave soldering (THT) and reflow (THR) processing. They extend the existing portfolio with filtered RJ45 versions in industrial design for applications up to 1 Gbps.



Main features

- 90° and 180° single-port PCB connectors
- For wave soldering (THT) and reflow (THR) processing
- With LED and shield spring as an option
- Filtering versions for all common Ethernet applications
- Data rates up to 1 Gbps
- Robust industrial design

Your advantages

- ✓ Simplified Ethernet design process due to integrated filtering
- ✓ Reduced PCB complexity and reduced EMC risks
- ✓ Automated processing due to reflow solderability
- ✓ Ideal version for any application due to wide range of products
- ✓ Equipped for demanding areas of application due to industrial design

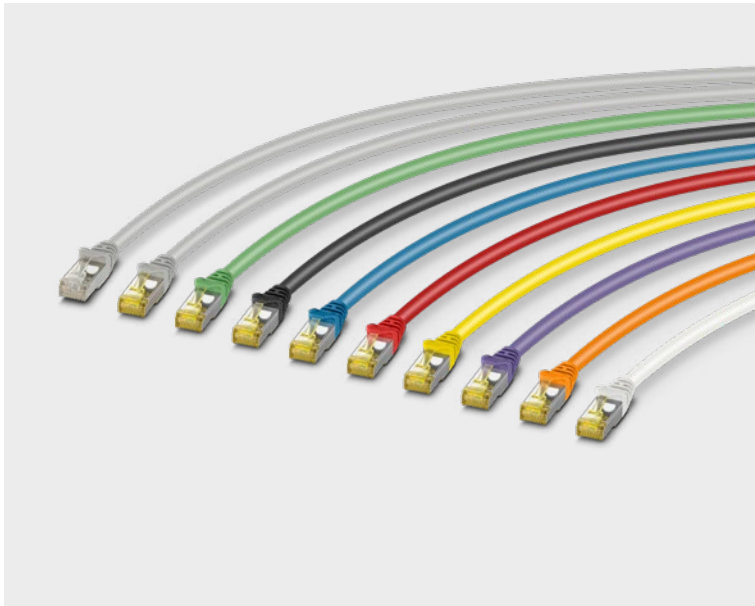


Gain more info:
Web code [#3710](#)

Color RJ45 patch cables

For applications in the control cabinet

Phoenix Contact is extending its range with color patch cables for the RJ45 BUILDING series. The new cables available in eight colors – white, orange, yellow, red, violet, green, blue, and black – provide color alternatives for CAT6_A applications.



Main features

- Colors: white, orange, yellow, red, violet, green, blue, and black
- Data transmission up to 10 Gbps (CAT6_A)
- Lengths from 0.3 to 50 m
- Integrated locking clip protection

Ethernet

Your advantages

- ✓ Perfect for office, building, and protected industrial applications, such as in control cabinets
- ✓ Worldwide approval with CE, UL, WEEE, and EAC
- ✓ Secure connection and disconnection with reliable locking clip protection
- ✓ Future-proof high-speed data transmission with up to 10 Gbps (CAT6_A)
- ✓ Ideal EMC properties due to 360° shielding

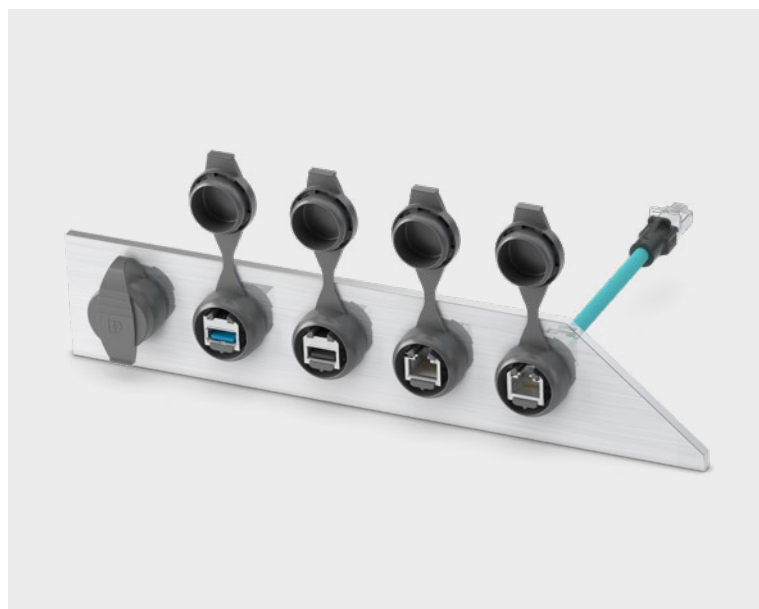


Gain more info:
Web code [#3772](#)

Data interface for control cabinets and devices

Carry out service work conveniently

Our Data Service Interfaces (DSI) include various interfaces such as RJ45 and USB for the easy connection of additional electrical devices. These space-saving service interfaces significantly simplify maintenance work on control cabinets and other devices.



Main features

- Coupling modules (USB type A 2.0, USB type A 3.0, RJ45 CAT6_A) and cable connection modules (RJ45 CAT6_A)
- IP65 / IP67 degree of protection (with closed protective cover)
- Panel thicknesses: 1 mm ... 5 mm
- Front mounting
- Ambient temperature (operation): -40°C ... +70°C
- UL approval
- Wall cut-out: Ø 22.5 mm

Your advantages

- ✓ The higher IP protection class enables use in industrial environments
- ✓ Quick and easy update and maintenance work etc., on closed control cabinets and devices
- ✓ Space-saving installation with a standard wall cut-out of Ø 22.5 mm
- ✓ Short mounting time with the simple, tool-free assembly
- ✓ Can be customized with your own logo



Gain more info:
Web code **#3807**

Hybrid connectors for energy storage systems

Simple transmission of power and signals

Designed for customer-specific assembly, the hybrid connector for electrical energy storage systems provides a reliable and safe connection for power and signal contacts. The all-in-one solution means that the connector can be installed in a cost-effective and time-efficient manner.



Main features

- Rated current: up to 4 x 100 A
- Rated voltage: 1,000 V DC
- Conductor cross-section: 6 mm² ... 25 mm²
- Degree of protection: IP65 / IP67
- Insertion cycles: >100
- Tolerance compensation: ≤2 mm

Your advantages

- ✓ All-in-one solution: combined power and signal interface
- ✓ Time savings due to the preassembled interface: fast and error-free installation in the field
- ✓ Cost-optimized solution for every requirement: customized assembly with the modular system
- ✓ Safe connection: connector compensates for manufacturing and mounting tolerances
- ✓ High quality in accordance with Phoenix Contact standards



Gain more info:
Web code **#3713**

Battery-pole connectors for residential storage

Inverter connection protected against polarity reversal

The new connectors for residential storage applications are particularly suitable for use on battery inverters. DC connectors protected against polarity reversal prevent mismatching in common PV connection technology and short-circuiting of the battery poles.



Main features

- Rated current: up to 60 A
- Rated voltage: 1,500 V DC
- Conductor cross-section: 6 mm² ... 16 mm²
- Degree of protection: IP66 / IP68 (2 m / 2 h)
- Insertion cycles: 100

Your advantages

- ✓ Silver-plated contacts for connection technology with long-term stability
- ✓ No mismatching: battery connection protected against polarity reversal by mechanical coding
- ✓ Safe mounting: touch-proof battery poles, even when not plugged in
- ✓ Various colors: easier identification of battery poles



Gain more info:
Web code [#3712](#)

Battery-pole connectors

Safe connections for energy storage systems

The BPC series connector that is protected against polarity reversal is ideal for use in energy storage units. Rotatable and featuring touch-proof contacts and mechanical coding, the single-position connector provides a particularly high level of flexibility and safety when connecting battery modules.



Main features

- Rated current: up to 400 A
- Rated voltage: 1,500 V
- Conductor cross-section: 16 mm² ... 120 mm²
- Pollution degree 2
- Degree of protection: IP65/IP67
- >100 insertion cycles
- Mechanical and color coding
- Flammability rating V0 in accordance with UL 94

Your advantages

- ✓ Error-free connection through mechanical and color coding
- ✓ Reliable installation due to the waterproof design and touch-proof contacts
- ✓ Consistent power transmission due to high shock and vibration resistance
- ✓ Flexibility as it can be rotated 360° and features various connection methods
- ✓ Compliance with all relevant energy storage standards: UL 4128, UL 1973, UL 9540

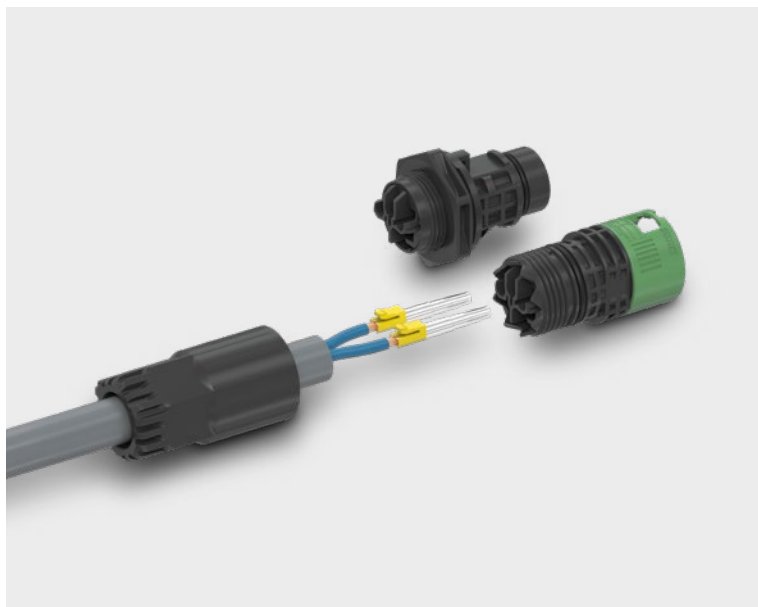


Gain more info:
Web code [#3687](#)

Installation connectors with crimp connection

Speeds up semi- and fully automated production

PRC 20 series installation connectors with crimp connection extend the existing portfolio with screw connection. Crimp connections simplify and speed up semi-automatic and fully automatic manufacturing, particularly for assembly at the factory.



Main features

- Rated voltage: 500 V AC/DC
- Rated current: 20 A
- Conductor cross section up to 2.5 mm²
- Degree of protection: IP66 / IP68 / IP69
- Impact resistance up to IK08
- 2- to 5-pos.
- Mechanical and color coding

Your advantages

- ✓ Greater efficiency for semi- and fully automated production processes
- ✓ Crimp versions are available for the entire PRC 20 portfolio
- ✓ Duo-Unlock technology allows you to choose the locking method (manual or with tool) during installation
- ✓ Mechanical coding and color coding as installation aids for error-free startup



Gain more info:
Web code [#3686](#)

Pluggable power distributors up to 20 A

Assembled for fast installation

The preassembled power distributor allows easy and time-saving installation with PRC 20 series connectors. The preconfigured distributor is available in 16 versions and can be easily installed via plug-and-play.



Main features

- Rated voltage: 400 V AC / 500 V DC (IEC) (III/2)
- Rated current: 20 A
- Degree of protection: up to IP69
- Impact protection category: IK08 (-25°C)
- 2- to 5-pos.
- Coding: mechanical and color-coded
- Number of inputs: 1
- Number of outputs: 2

Your advantages

- ✓ Low installation effort at the construction site with plug-and-play
- ✓ Fewer wiring errors due to 100% check during production
- ✓ Locking that can be released either manually or by using tools ensures greater flexibility on site
- ✓ Plug-and-forget with the use of tried-and-tested materials
- ✓ Safe use even under extreme ambient conditions



Gain more info:
Web code [#3711](#)

Installation system for confined spaces

Space-saving power and signal distribution

The compact IPD 1.5 mm² installation system is ideal for power and signal transmission with small conductor cross-sections starting at 0.25 mm². The intuitive bayonet interlock on the robust distributors enables time-saving plug-and-play installation.



Main features

- Slim, compact design
- Current carrying capacity up to 16 A
- Tool-free signal and power distribution
- Bayonet interlock
- IK07 impact resistance

Your advantages

- ✓ Significant time savings in the field with tool-free and plug-in connection
- ✓ Compact and robust distribution boards with IK07 impact resistance
- ✓ Bayonet fast-locking system ensures easy mounting, even in particularly difficult installation situations
- ✓ Reliable use outdoors and in wet areas due to the high degree of protection



Play video



Order sample

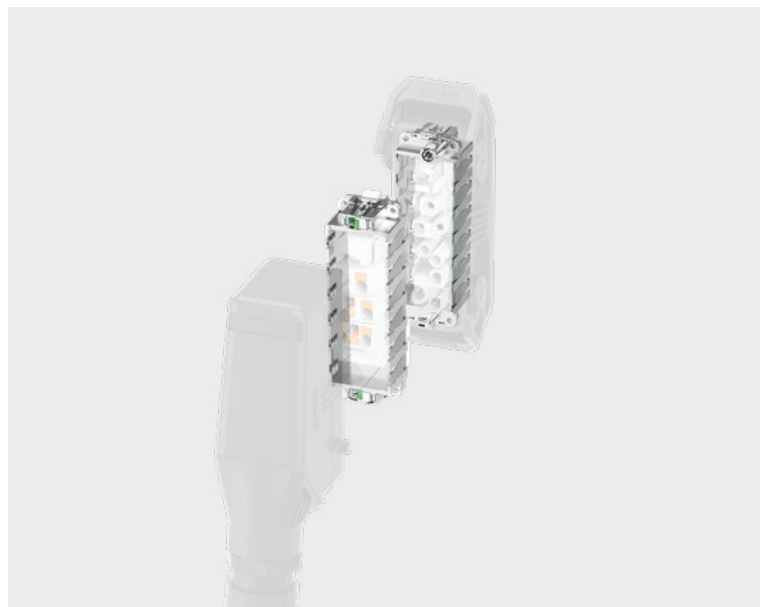


Gain more info:
Web code [#3980](#)

Click-in module carrier frames for heavy-duty connectors

Easy, tool-free installation

HEAVYCON ensures that the individual configuration and use of heavy-duty connectors is completely tool-free, making it even easier and less time-consuming. With connections that “click” – from the large portfolio of contact inserts to the frame and PE contact.



Main features

- Connection technology frame: click-in latching
- PE connection technology: Push-in connection
- Number of modules: up to 6
- Mating cycles: 500
- Temperature range: -40°C ... +125°C

Your advantages

- ✓ Save time and money: Reliable, tool-free click-in latching
- ✓ Fast conductor connection: conductor connection with Push-in Technology – even with PE contact and when installed
- ✓ Convenient module latching: easy installation with clear snap-in mechanism
- ✓ Individual and space-saving: combination of different modules
- ✓ High-performance power modules: reliably transmit currents of up to 300 A



Play video



Order sample



Gain more info:
Web code **#3090**

HEAVYCON Power contact insert modules

Customized wiring of high-current applications

Transmit currents up to 300 A reliably with the contact insert modules for HEAVYCON heavy-duty connectors. By combining them with other modules for signal, data, and power transmission in one housing, you can create your own customized interface.



Main features

- Modules with crimp connection up to 120 mm²
- Modules with Push-in connection up to 16 mm²
- Suitable for all HEAVYCON module carrier frames
- Rated voltage and current: up to 1,000 V and 300 A
- Temperature range: -40°C ... +125°C
- Shock- and vibration-resistant in accordance with DIN EN 61373

Your advantages

- ✓ Innovative latching and unlocking of crimp contacts without using tools
- ✓ Highly compact modular interface achieved by combining various different transmission media in the same housing
- ✓ Quick and safe wiring, even in confined spaces and when installed
- ✓ Easy tool-free connection of conductors up to 16 mm² with Push-in Technology
- ✓ Connection-compatible with the market standard

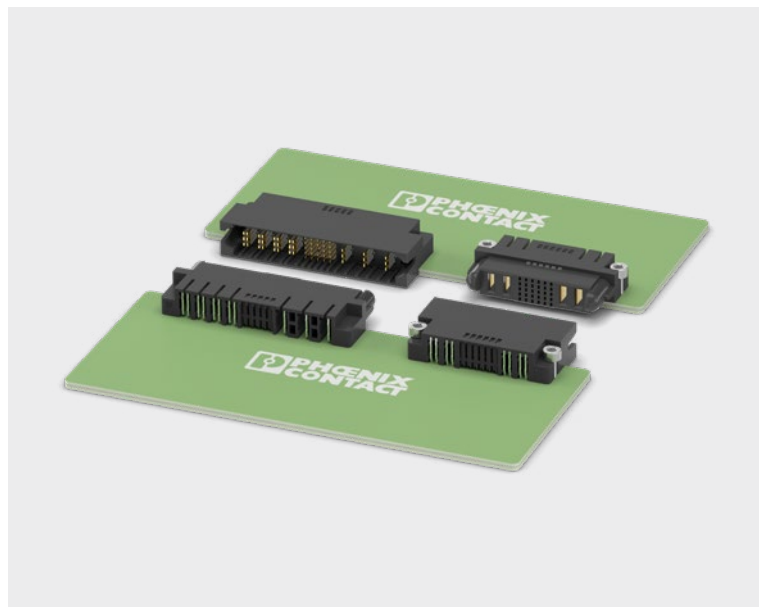


Gain more info:
Web code [#3822](#)

Hybrid power board-to-board connectors

Compact solution for power and signals

The Power Connect Hybrid (PCH) series includes hybrid board-to-board connectors with power and signal contacts. With a current carrying capacity of up to 85 A per contact, the PCH series meets the requirements for compact solutions with high power.



Main features

- High-power, low-power, and signal contacts
- Max. current per contact: high power: 85 A / low power: 51 A / signal: 1 A
- Pitch: high power: 5 mm / low power: 7 mm / signal: 2 mm
- Orientation: right-angled for coplanar board-to-board connections
- OCP (Open Compute Project)-compliant

Your advantages

- ✓ Combined high-power and signal transmission in a single connector for space- and cost-saving use
- ✓ Compliance with the OCP Standard for Power Supply Units (PSU) and Battery Backup Units (BBU)
- ✓ Automated processing due to reflow solderability
- ✓ Multi-level sequenced pinning for safe connection and disconnection under load
- ✓ Blind-mate capability for easy, reliable plugging



Gain more info:
Web code **#3824**

Unshielded board-to-board connectors with 0.8 mm pitch

Greater flexibility with compatible PCB footprints

The FINEPITCH board-to-board connectors in the FP 0,8 SL series are unshielded versions of the FP 0,8 series. Compatibility with the PCB footprint of the shielded FP 0,8 versions means that both versions can be replaced flexibly without adjusting the PCB layout.



Main features

- Pitch: 0.8 mm
- Number of positions: 12, 20, 32, 52, 80
- Stack height: 6 mm ... 21 mm
- Data rates up to 52 Gbps
- Available with shielding as an option
- Nominal current: 1.7 A per contact
- Insertion cycles: 500
- Test voltage: 500 V AC

ScaleX

Your advantages

- ✓ Compatible PCB footprint enables flexible replacement of shielded and unshielded versions
- ✓ Reliable mechanical and electrical connections with the double-sided ScaleX contact system
- ✓ Robustness: ScaleX technology for high tolerance compensation and protection of contacts
- ✓ Flexible device design: various numbers of positions, designs, and stack heights with high-level mating security

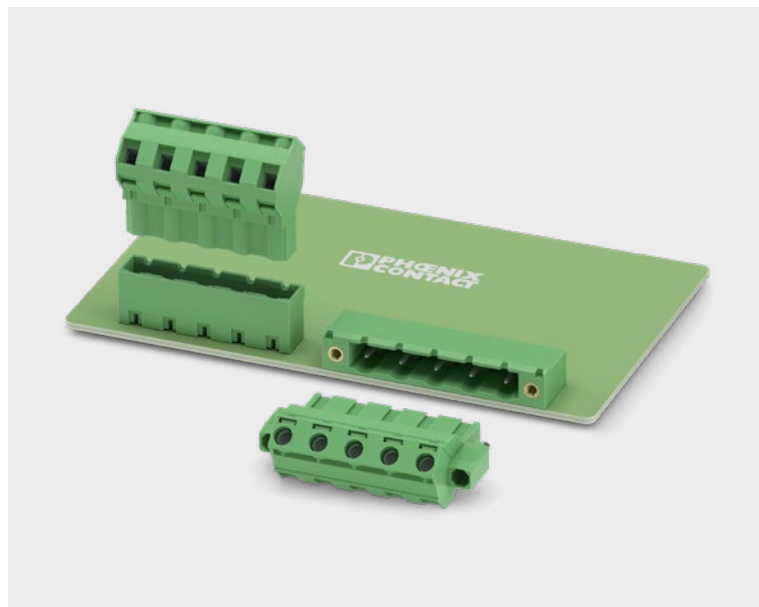


Gain more info:
Web code [#3684](#)

Angled connectors with screw connection

Ideal for applications in confined spaces

The PCB connector with a screw connection and a 45° angled connection direction is available in a 7.62 mm pitch. There are versions with and without screw flange. It is compatible with the existing COMBICON product range.



Main features

- Screw connection
- Pitch: 7.62 mm
- Conductor cross-section: 0.2 mm² ... 2.5 mm²
- Currents up to 12 A
- Voltages up to 630 V
- Compatible with the MSTB family in a 7.62 mm pitch

Your advantages

- ✓ Well-known connection principle allows worldwide use
- ✓ Low generation of heat with a particularly high contact force
- ✓ Screwable flange for excellent mechanical stability
- ✓ Allows connection of two conductors
- ✓ Angled cable outlet for confined spaces

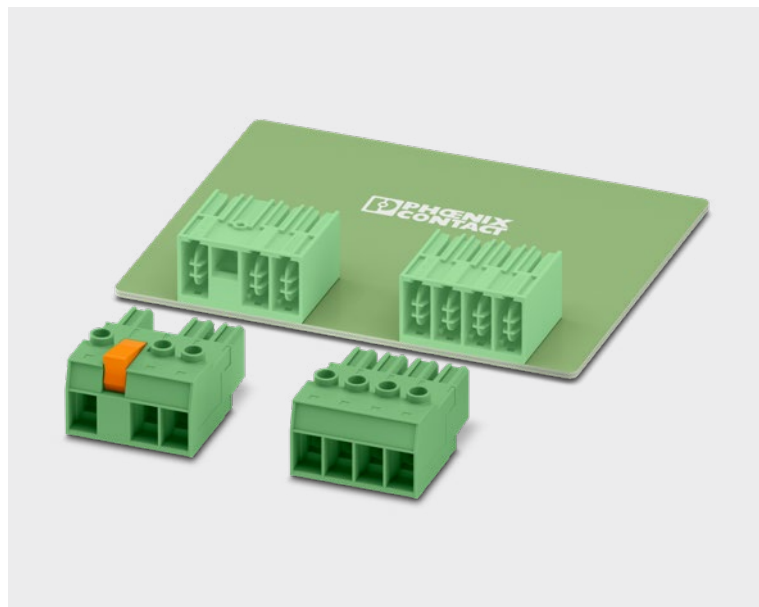


Gain more info:
Web code **#3825**

Touch-protected connectors with screw connection

Flexible for power electronics

With the PC 16 HC series, the classic connection technology with screw connection is now also available with enhanced touch protection for the new pin connector pattern. The plugs with a 10.16 mm pitch have a current carrying capacity of 76 A at standard ambient temperatures of $\geq 40^{\circ}\text{C}$.



Main features

- Pitch: 10.16 mm
- Currents up to 76 A in ambient temperatures of $\geq 40^{\circ}\text{C}$
- Voltages up to 1,000 V
- 2- to 6-pos.
- With center flange as an option
- Enhanced touch protection in accordance with IEC / UL 61800-5-1

Your advantages

- ✓ Enhanced touch protection for a high level of safety even when not plugged in
- ✓ Pin connector pattern compatible with the LPC 16 lever-actuated PCB connector
- ✓ Well-known connection principle allows worldwide use
- ✓ Low generation of heat with a particularly high contact force
- ✓ Allows connection of two conductors

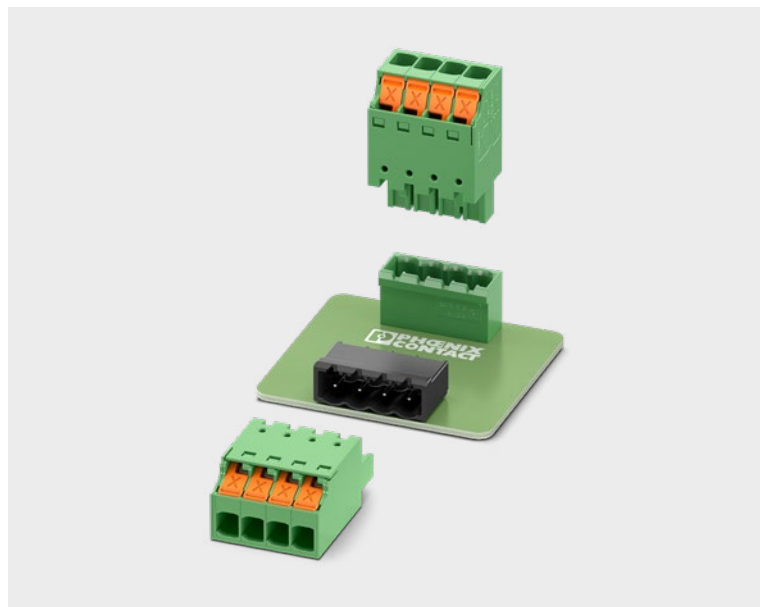


Gain more info:
Web code [#3685](#)

PCB connectors with Push-X technology

Highly convenient operation during conductor connection

The convenient Push-X conductor connection is integrated into XPC 2,5 series PCB connectors. Push-X technology enables you to connect flexible and rigid conductors quickly and with virtually zero effort.



Main features

- Currents up to 16 A
- Voltages up to 320 V (300 V UL)
- Conductor cross-sections up to 2.5 mm²
- Pitch: 5.08 mm
- 2- to 12-pos.

Push-X Technology 
Designed by Phoenix Contact

Your advantages

- ✓ Fast conductor connection for all conductor types with and without ferrules
- ✓ Highly convenient operation with the effortless and tool-free direct-connection technology
- ✓ Acoustic feedback during conductor connection
- ✓ The lever position shows the connection status
- ✓ Compatible with COMBICON PCB connectors with a pitch of 5.08 mm



Play video



Order sample

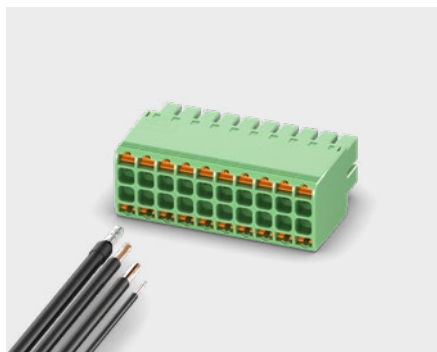


Gain more info:
Web code **#3091**

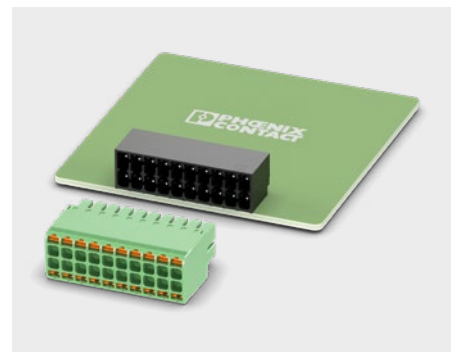




Acoustic and visual feedback during conductor connection



Quick installation of all types of conductors with and without ferrule



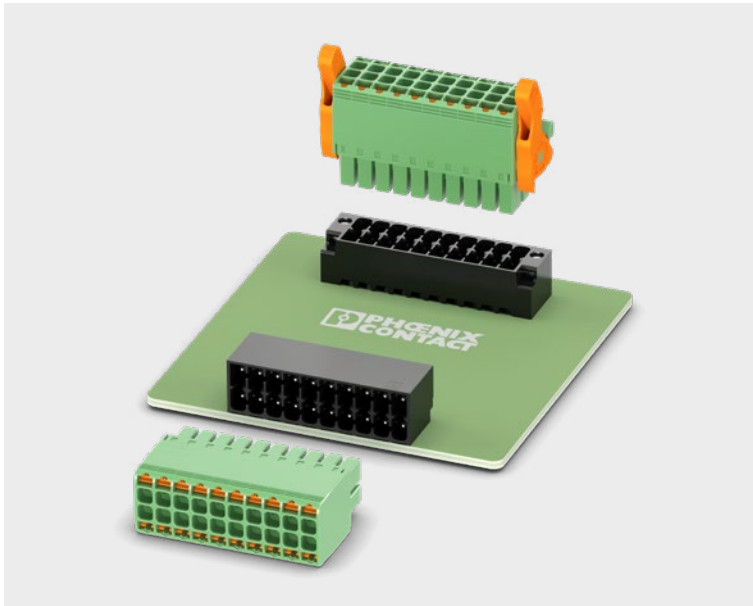
Compatibility with existing COMBICON portfolio connectors

Connect > PCB terminal blocks and PCB connectors

Double-row connectors with Push-X

Highly convenient operation and a compact design

DXPC 1,5 series double-row PCB connectors feature a convenient Push-X conductor connection. Flexible and rigid conductors can be connected quickly and with practically no force needed. The double-row contacts enable a high packing density on a small footprint.



Main features

- Push-X technology
- Pitch: 3.5 mm
- Conductor cross section: 1.5 mm²
- Currents up to 8 A
- Voltages up to 160 V
- 2- to 20-pos.
- Available with/without screw flange or lock-and-release lever

Your advantages

- ✓ Immediate confirmation via acoustic and visual feedback during conductor connection
- ✓ Fast conductor connection for all conductor types with and without ferrules
- ✓ Compatibility with existing COMBICON portfolio connectors
- ✓ Contacts arranged in a double row enable high packing density in a compact area
- ✓ Optimized for confined installation situations with operation and conductor connection from one direction



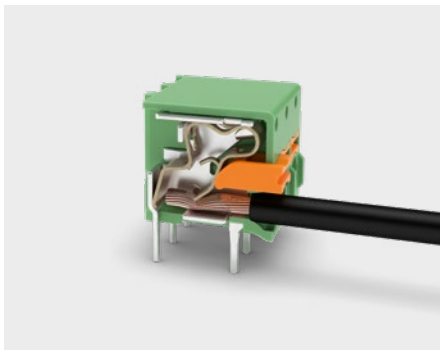
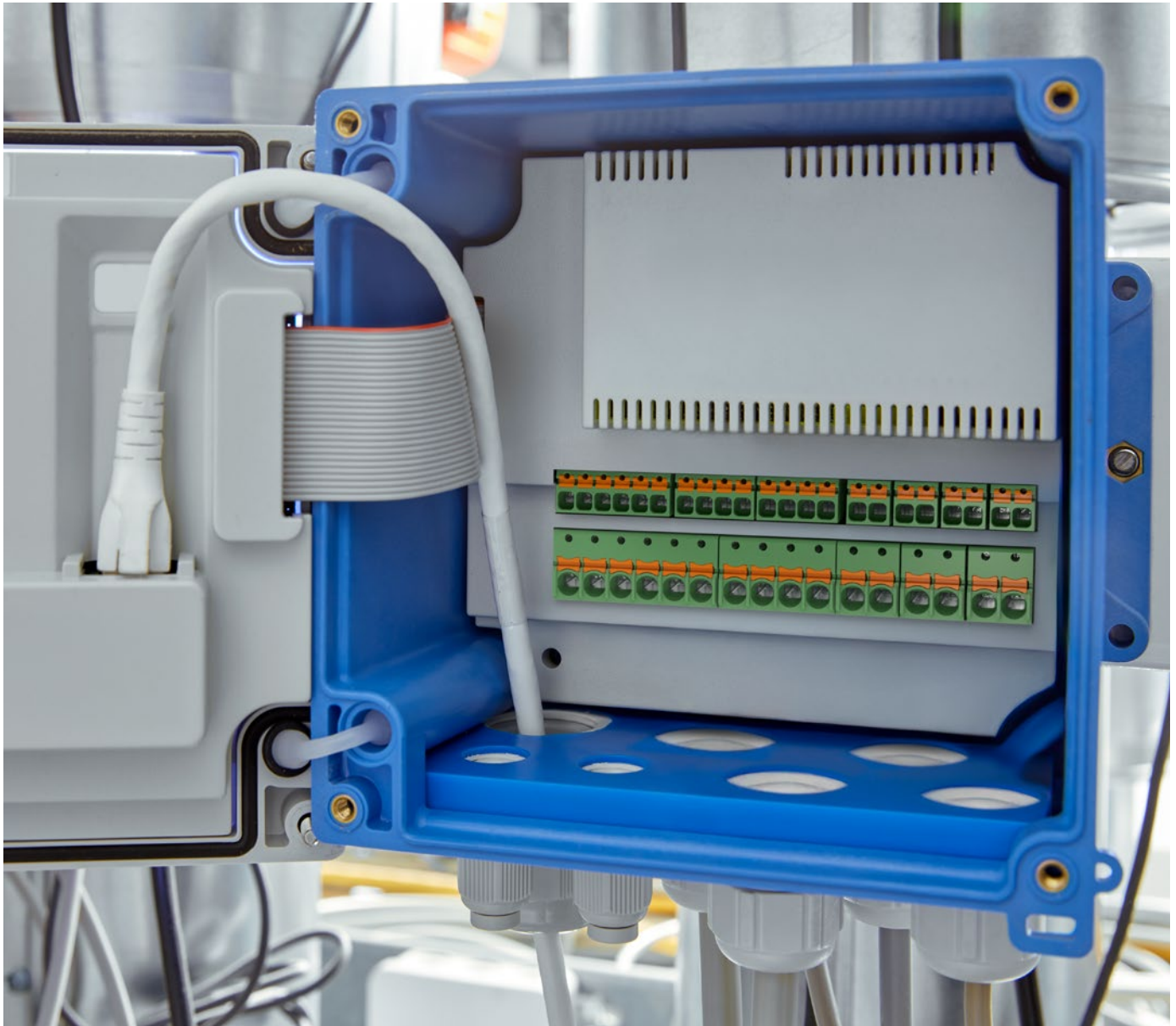
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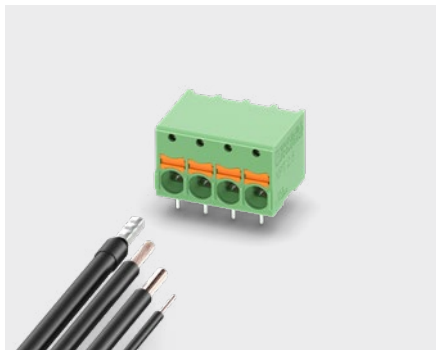
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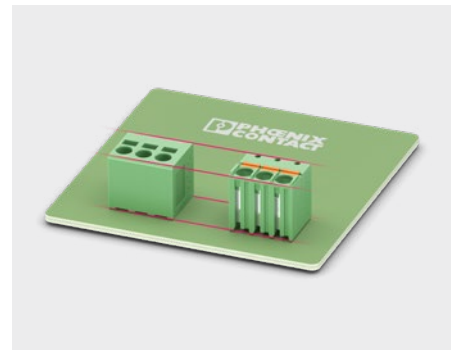
Gain more info:
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Acoustic and visual feedback during conductor connection



Quick installation of all types of conductors with and without ferrule



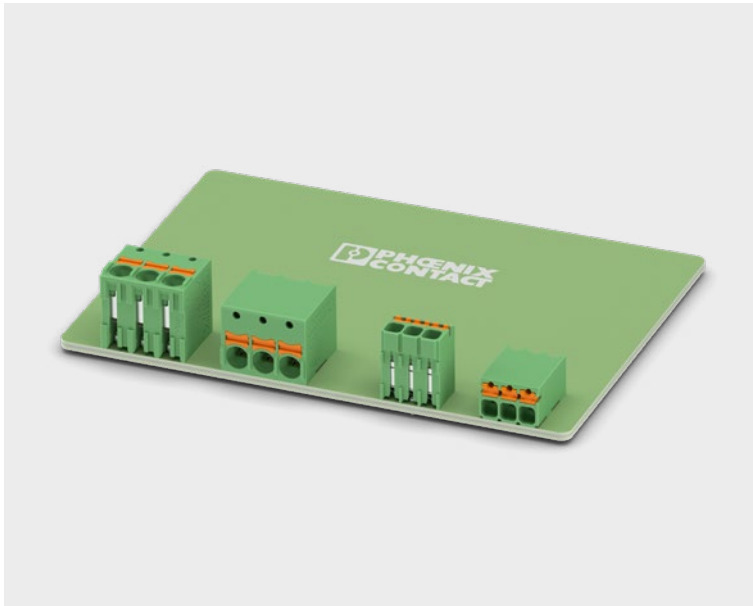
Same footprint as the SPT 2.5 and SPT THR 1.5

Connect > PCB terminal blocks and PCB connectors

PCB terminal blocks with Push-X

Easy to plug in with Push-X technology

The XPT series PCB terminal blocks feature the user-friendly Push-X connection. This technology makes it possible to connect flexible and rigid conductors very quickly by plugging them straight in with practically zero effort.



Main features

- Push-X technology
- Pitch: 3.5 mm and 5.0 mm
- Conductor cross-section: 0.34 mm² ... 4 mm²
- Currents up to 32 A
- Voltages up to 400 V
- Pins compatible with SPT 2,5 and SPT THR 1,5

Your advantages

- ✓ Immediate confirmation via acoustic and visual feedback during conductor connection
- ✓ Fast conductor connection for all conductor types with and without ferrules
- ✓ Highly convenient operation with the effortless and tool-free direct-connection technology
- ✓ Operation, conductor connection, and test pick-off from one direction for easy integration into the device front
- ✓ Same footprint as the existing SPT 2,5 and SPT THR 1,5 in the COMBICON portfolio



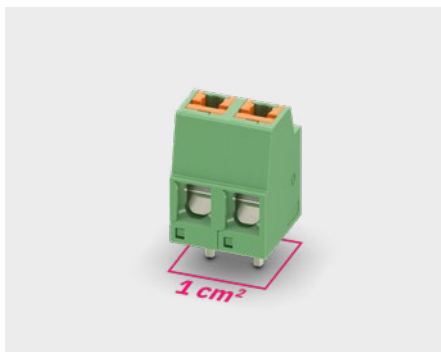
Play video



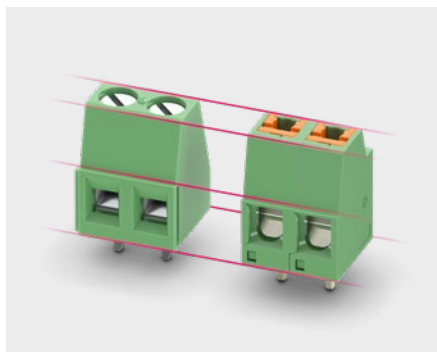
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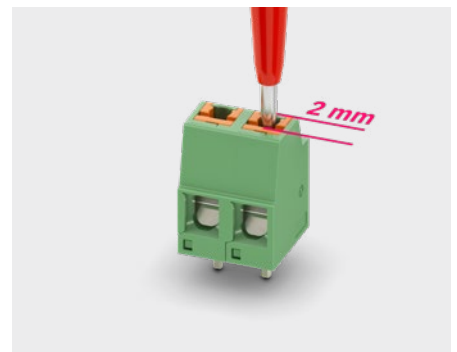
Gain more info:
Web code [#3091](#)



Compact design with time-saving
Push-in spring connection



Same TWIN design contour
for screw and Push-in

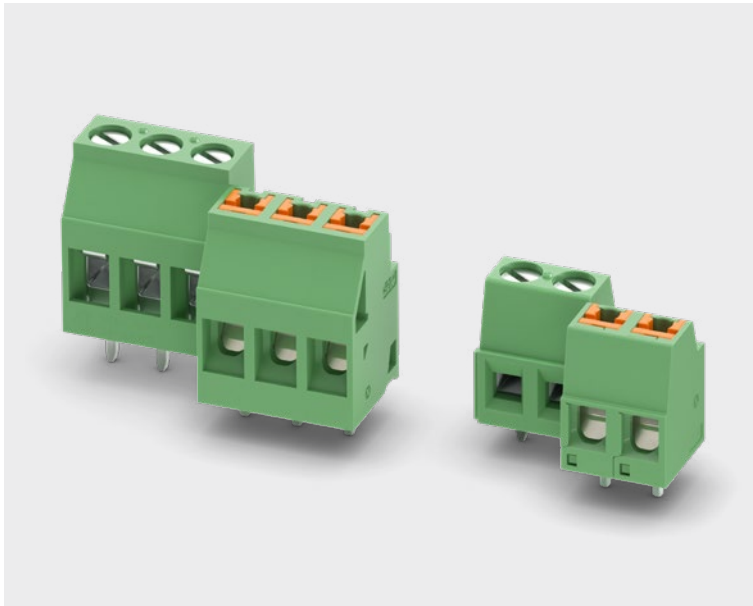


Convenient testing with large test opening

Push-in PCB terminal blocks in TWIN design

Technology upgrade for connection technology

The SPTH series with Push-in Technology features larger test openings and a connection capacity of up to 4 mm². With the TWIN design and the same footprint, device manufacturers can switch flexibly between connection technologies without having to adapt the PCB layout or device housing.



Main features

- Push-in spring connection
- Pitch: 5.0 mm and 5.08 mm
- Conductor cross-section: 0.14 mm² ... 4 mm²
- Currents up to 32 A
- Voltages up to 400 V
- Compatible with the MKDS family

Your advantages

- ✓ Compact: space savings of 20% compared to comparable Push-in PCB terminal blocks
- ✓ TWIN design: uniform design and identical pinning for Push-in and screw connection
- ✓ Large test opening: integrated touch connection for simple testing
- ✓ Solder pins with insertion geometry: optimum positioning in the assembly process
- ✓ Push-in Technology: time-saving conductor connection and long-term stable connection



Play video



Order sample

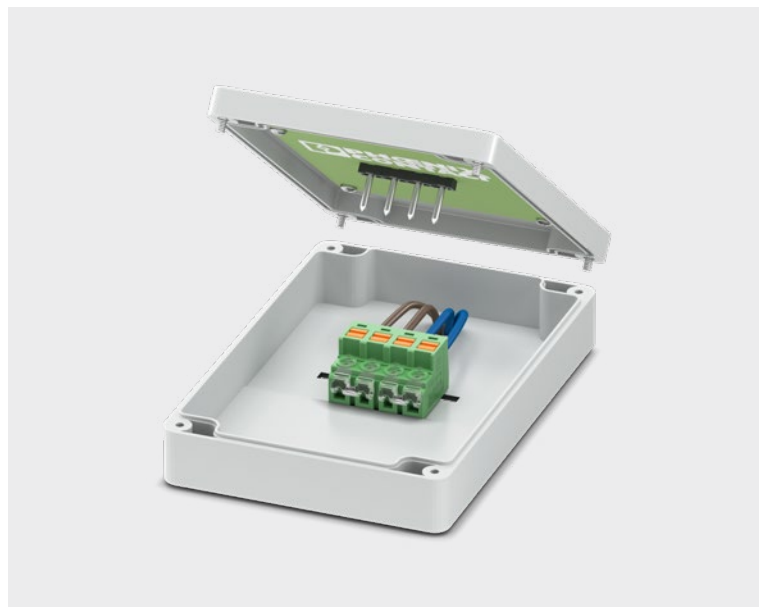


Gain more info:
Web code [#4331](#)

Bridged pin strip PCB connectors

Convenient loop through of potentials

The PTS 1,5/ PH-CLIP-B PCB connector is ideal for looping through potentials in building applications. With its clip geometry, it can be latched onto the lower housing part without tools. Cost-optimized pin strips are used to make contact with the PCB.



Main features

- Conductor cross-sections: 0.2 mm² ... 2.5 mm²
- Currents up to 10 A for the device and 16 A for loop through
- Voltages up to 400 V
- Pitch: 5.0 mm
- 2-, 4-, and 6-pos.
- Compatible with the PST 1,3

Your advantages

- ✓ Tool-free, time-saving Push-in connection
- ✓ Internal bridging for the easy loop through of potentials
- ✓ Can be latched into the device housing with the clip geometry
- ✓ Intuitive operation with color-coded actuating push button
- ✓ Largest possible clamping space in a small component size



Gain more info:
Web code [#4321](#)

New size of lower housing part

For ICS series electronics housings

The 50 mm wide lower housing part provides the largest possible PCB surface in the ICS series and thus creates more space for the electronics it holds. In total, up to four PCBs and 20 connectors with up to 100 positions can be mounted in the housing.



Main features

- Width: 50 mm
- Height: 122 mm
- Depth: 130.9 mm
- Up to 20 connection openings

Your advantages

- ✓ More space for electronic components due to the enlarged PCB surface
- ✓ Full compatibility with the ICS product portfolio with the new combination of existing dimensions
- ✓ Integration of connectors on five connection levels due to a usable overall depth of 112 mm

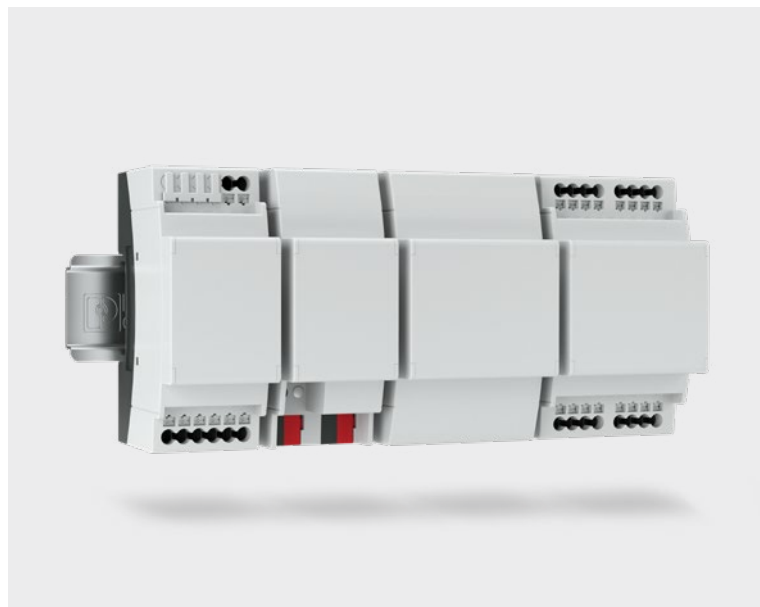


Gain more info:
Web code [#3776](#)

Configurable upper parts for Push-in connection

For electronics housings for building automation

With the new upper housing parts from the BC modular series, you benefit from the convenient operation of the Push-in connection technology on the front of the housing. Configure your own customized housing solution equipped with Push-in PCB terminal blocks from the SPT-THR series.



Main features

- DIN rail housing for use in distribution boards in accordance with DIN 43880
- Widths: 35.6 mm, 53.6 mm, 71.6 mm, 107.6 mm, and 161.6 mm
- Color: light gray (similar to RAL 7035)
- Up to 24 positions: 1.5 mm² per housing chamber
- Up to 8 positions: 2.5 mm² per housing chamber
- Prepared for use with the KNX bus

Your advantages

- ✓ SPT-THR-harmonized housings enable fast device development and optimal protection for the electronics
- ✓ Individual configuration of each housing chamber for diverse applications in building automation
- ✓ Standard-compliant housing and installation dimensions for use in distribution boards
- ✓ Easily create the right item for you: use our intuitive online configurator



Play video



Gain more info:
Web code **#3438**

Push-in PCB terminal blocks

For electronics housings for building automation

For the first time, Push-in PCB terminal blocks are available for the BC 17,8 (1 HP). With the PCB terminal blocks from the FKDSO 1,5 and FKDSO 2,5 series, you can implement future-proof applications in building automation with up to 16 positions per module.



Main features

- Up to 16 positions in an overall width of 17.8 mm (1 HP)
- Currents up to 22 A
- 3- and 4-pos. PCB terminal blocks can be combined in one upper part
- Conductor cross-sections up to 1.5 mm² (FKDSO 1,5) and 2.5 mm² (FKDSO 2,5)
- 3.5 mm pitch (FKDSO 1,5) and 5 mm pitch (FKDSO 2,5)

Your advantages

- ✓ Coordinated housing and connection system for faster device development
- ✓ Tool-free, time-saving Push-in connection
- ✓ Orthogonal alignment of the terminal block with the PCB for optimum accessibility in DIN-rail-mounted devices
- ✓ Defined contact force ensures that contact remains stable over the long term
- ✓ Intuitive operation with color-coded actuating push button

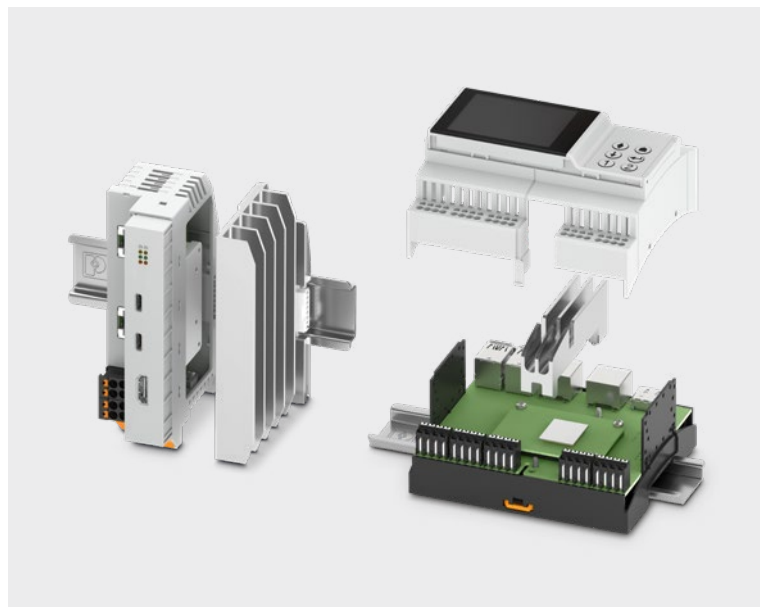


Gain more info:
Web code **#3619**

Electronics housings with thermal simulation

Perfectly optimized for maximum power

Maximize power density in your electronics housings with passive cooling solutions and thermally optimized PCB layouts: from configuration and comprehensive thermal simulations to implementation – ideal for powerful and miniaturized applications.



Main features

- Material: aluminum
- Surface: natural anodized
- Heatsink topology: extruded profile (BC) / heat spreader and extruded profile (ME-IO)
- Maximum component height: 12 mm (BC) / 10 mm (ME-IO)
- Heatsink width: 17.8 mm ... 53.6 mm (BC) / 8.8 mm (ME-IO)

Your advantages

- ✓ Efficiently embedded cooling systems through the flexible combination of heatsinks and housings for optimum cooling
- ✓ Seamless integration with tailor-made passive solutions: optimally tuned both mechanically and thermally
- ✓ Comprehensive service from online configuration and thermal simulations to integration
- ✓ Minimal space requirements due to space-saving cooling for maximum power density and utilization of space



Play video



Gain more info:
Web code **#3763**

Housing system for compact controllers

For use with front connection technology

The ME-IO Slim is the efficient housing solution for compact controllers that require high-density front connection technology. The 18-position front connector makes contact directly on the PCB. With a module width of just 12 mm, the ME-IO Slim is particularly space-saving.



Main features

- 18-pos. front connection technology
- Module width: 12 mm
- Couplers and CPU housings
- Color: light gray (similar to RAL 7035)
- 8-pos. module communication
- 6-pos. supply connector in the head station
- Status display without separate light guide

Your advantages

- ✓ Simple module assembly with two side panels and one DIN rail fixing lever
- ✓ High connection density with 18-pos. connector with 5 mm pitch
- ✓ Ideal for price-sensitive applications due to the simple design and predefined module layout
- ✓ Machinable flaps in the CPU module allow application-specific customization
- ✓ Easy cabling in the module due to preprinted 18-pos. front connector

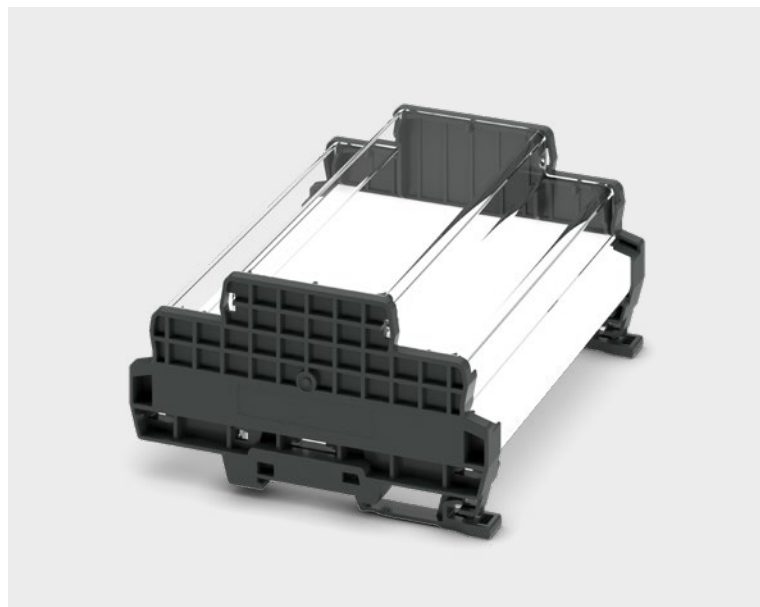


Gain more info:
Web code [#3718](#)

Covers for UM-BASIC/PRO extruded profiles

Effective PCB protection

Phoenix Contact is providing new covers for the UM-BASIC/PRO extruded profiles that can accommodate different hoods at the same time. This enables the profile to be completely covered without additional lids on the PCB. This gives you more usable space, because keep-out areas are no longer required.



Main features

- Degree of protection: IP20
- Width of the covering hoods: 73 mm and 108 mm
- Covering hood material: PC
- Covering lid material: PA
- Covering lids for profiles for PCBs with width: 108 mm

Your advantages

- ✓ Optimum protection of the electronics by covering the entire profile length
- ✓ More usable area on the PCB as keep-out areas are no longer required
- ✓ Reduced number of parts simplifies handling and lowers mounting costs
- ✓ Quick, tool-free installation saves time and increases productivity
- ✓ Safe touch protection prevents mechanical influences on the electronics

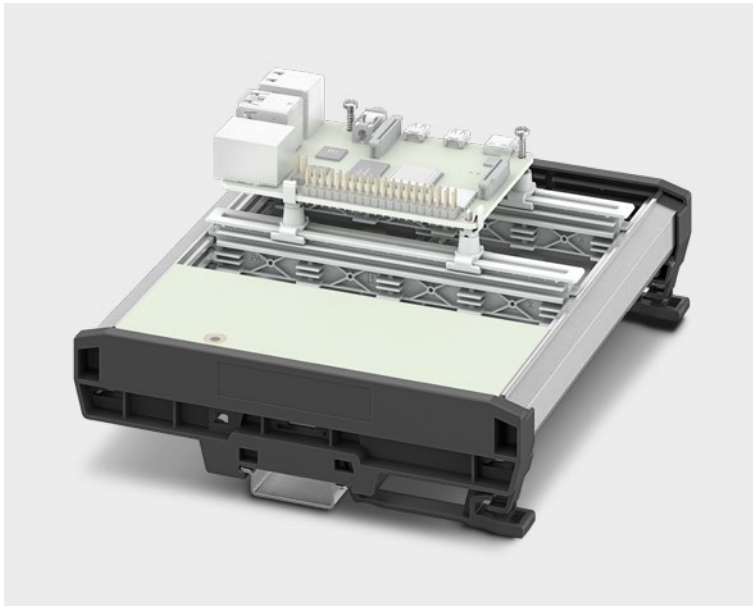


Gain more info:
Web code [#4322](#)

Flexible PCB holder system

For PCBs of different sizes

The evaluation (EVA) board holder for UM-BASIC and UM-PRO is a flexibly adjustable holder system for accommodating PCBs of various sizes by means of latching or screw connection. The system can be mounted on a UM-BASIC/-PRO 122 profile from Phoenix Contact.



Main features

- Accommodation of various PCB sizes
- Compatible with UM-BASIC/-PRO 122
- Can be moved on profile
- Color: light gray (similar to RAL 7035)
- Several PCBs can be combined

Your advantages

- ✓ Easy mounting and removal of PCBs
- ✓ Low-cost integration of PCBs of different sizes
- ✓ A large PCB surface in a small installation space
- ✓ Flexible combination of PCBs of different sizes



Gain more info:
Web code [#3717](#)

PV panel bracket

For energy self-sufficient systems

The POS Panelfix bracket frame is suitable for mounting various solar panels in the range from 20 to 200 Wp. The flexible design is suitable for panel and mast mounting. With the innovative clamping solution, the panel can be attached very quickly using just one tool.



Main features

- Ideal for separate mounting of solar panels and electronics
- Mounting by clamping or screwing in place
- Compatible with all popular panels in the range from 20 to 200 Wp
- For all mast diameters from 48 to 180 mm
- Material: stainless steel

Your advantages

- ✓ Compatible with all standard panels (20 to 200 Wp) with innovative mounting
- ✓ One-person mounting in just 15 minutes using just one tool (SW13) with the simple clamping technology
- ✓ Flexible design for panel or mast mounting
- ✓ Suitable for harsh environments and up to wind force 10 due to additional reinforcement



Gain more info:
Web code **#3750**

Battery holder

Compatible with standard batteries

The OCS BAT HOLD holder is suitable for the secure mounting of batteries in the 72 to 720 Wh range. The battery holder, which is suitable for electronics housings from the OCS and POS series, enables you to easily set up self-sufficient systems even under extreme ambient conditions.



Main features

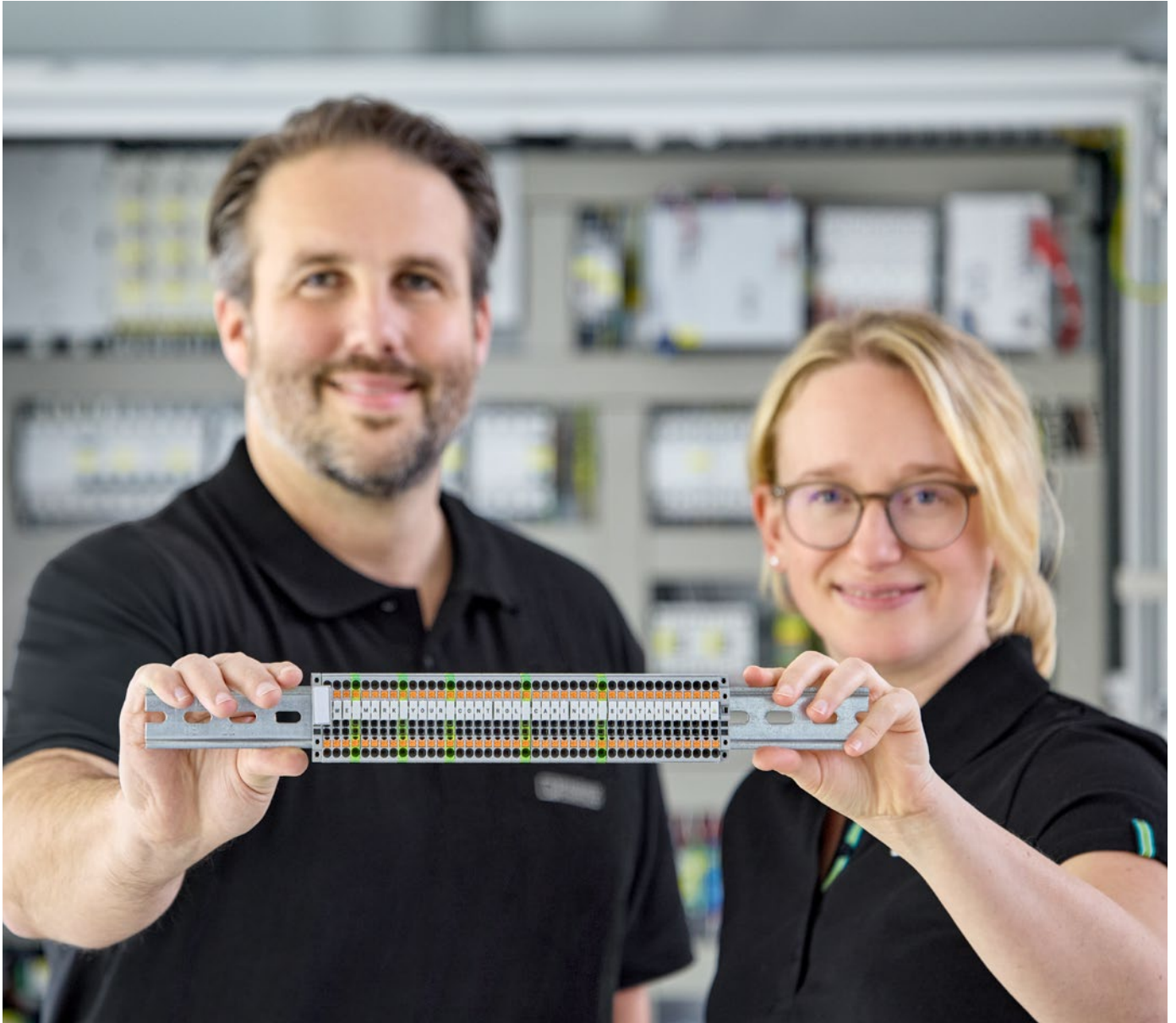
- Consists of battery fastening set and mounting panel with base
- Suitable for OCS and POS housings
- Additional grounding possible
- Material: galvanized steel

Your advantages

- ✓ Secure attachment even in harsh environments
- ✓ Flexible holder due to compatibility with standard batteries in the 72 to 720 Wh range
- ✓ Easy mounting with just one tool (wrench size 13 mm)
- ✓ Space-saving solution provides enough space for the installation of additional electronics



Gain more info:
Web code [#3775](#)



Recycling waste from the food and paper industry



Proven sustainability: ISCC PLUS certified



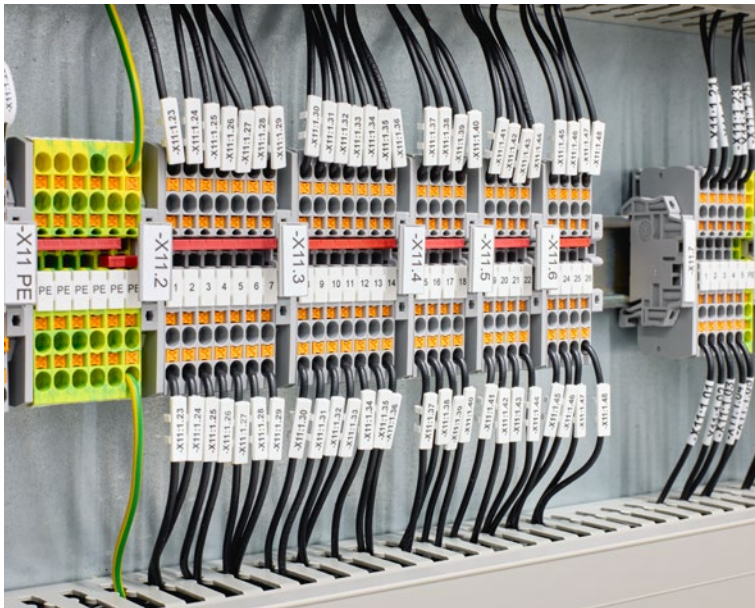
Seamless quality control from the granulate to the end product

Mark, assemble, and install > Marking material

Sustainable identification solutions

For all components in the control cabinet

Sustainable identification solutions help to reduce the overall carbon footprint of a control cabinet. Processing recycled waste conserves resources and produces marking materials, and their quality is just as good as conventional products.



Main features

- Sustainable marking of terminals, wires and cables, equipment, and plants
- Identification solutions with a significantly reduced carbon footprint
- Raw materials are extracted from recycled waste products
- Proven technical and visual properties as well as print quality and durability



Your advantages

- ✓ Versatile marking solutions for sustainable identification of all control cabinet components
- ✓ Reducing the carbon footprint of marking materials, by more than 80% in some cases
- ✓ Conserving resources and preventing waste by extracting raw materials from recycled waste products
- ✓ Quality is just as good as conventional marking materials



Play video



Gain more info:
Web code **#4327**

Efficient UV inkjet printers

Efficient marking of card material

The BLUEMARK E.CARD card printer is characterized by its high efficiency and resilient identification solutions. With its modular ink concept, the low-maintenance UV inkjet printer enables optimal print results on plastic and metal materials.



Main features

- Monochrome UV inkjet card printer
- Thermal inkjet printing technology with UV curing
- Identification of UC and UCT cards, UM strips, and metal markers
- Automatic material feed
- Interfaces: USB, Ethernet, Wi-Fi

Your advantages

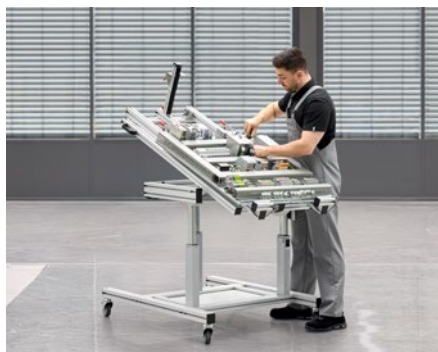
- ✓ Time savings of up to 40% with automated material processing
- ✓ Application-optimized identification with the modular ink concept
- ✓ Optimal print results with the innovative combination of UV LED ink and thermal inkjet technology
- ✓ Easy operation with intuitive user guidance and efficient software solutions
- ✓ Low maintenance costs by simply replacing the entire ink system with the ink cartridge



Gain more info:
Web code **#3768**



Easy height adjustment under load



Individually adaptable for ergonomic working



Easy handling of different structures

Height-adjustable mounting bench

Working ergonomically in control cabinet building

The BS-WS MOUNTING TROLLEY is a flexible workbench for mounting and wiring mounting panels and control cabinets. Featuring height and tilt adjustment, the mobile mounting bench supports back-friendly working in various positions.



Main features

- Dimensions (W x H): 915 mm x 1,180 mm (base frame)
- Maximum load: 130 kg
- Adjustable tilt angle: 0° ... 80°
- Height adjustment via crank handle
- For mounting panels / control cabinets up to max. 1,600 mm x 1,200 mm x 350 mm (W x H x D)
- Storage space for boxes, for example
- Castors with brake

Your advantages

- ✓ Ergonomic and back-friendly working in any position with height and tilt adjustment
- ✓ High degree of flexibility through individual adaptation and mobile use
- ✓ Secure and variable fixing of mounting panels and control cabinets
- ✓ Space-saving storage when not in use due to the compact design

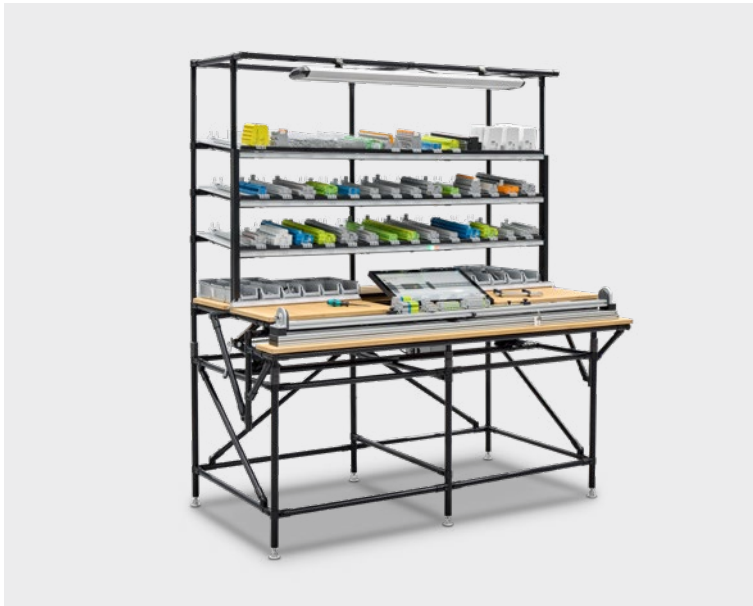


Gain more info:
Web code **#4326**

Modular workstation systems

For efficient processes in control cabinet building

With the clipx BASIC line workstation systems, you can quickly and easily configure your own individual workstation for efficient and ergonomic working. The modular system can be flexibly adapted or extended at any time to meet your requirements.



Main features

- Workstation system consisting of a basic workstation and appropriate accessories
- Tailored to specific process steps (e.g., picking, assembly, wiring)
- Ergonomic design
- Modular design
- Worker assistance software can be integrated

Your advantages

- ✓ Workstations individually equipped and extended with modular, scalable accessories
- ✓ Rapid process optimization and increased efficiency with a concept that is easy to implement
- ✓ Increased productivity due to the ergonomic design and structured arrangement of components
- ✓ Optimized for production processes in control cabinet building based on years of experience in process consulting



Gain more info:
Web code **#3771**

Mounting device

For terminal strip production

Our ergonomic mounting device enables you to produce terminal strips conveniently and safely. The DIN rail is fixed with screw-type clamping devices. The rotation and sliding function enables the mounting device to be rotated and adjusted flexibly.



Main features

- Dimensions (W x H x L):
107 mm x 187 mm x 1,863 mm
- Equipped with quick-release fasteners, clamping devices, and measuring scale
- With rotation and sliding function
- Additional sliding blocks integrated to accommodate further clamping devices
- Parallel production of at least 2 terminal strips possible

Your advantages

- ✓ Improved ergonomics and safe working during terminal strip mounting
- ✓ Easy and secure fixing of the DIN rail with screw-type clamping devices
- ✓ Time savings, with parallel production of several terminal strips possible
- ✓ Convenient mounting of terminal markers with rotation function
- ✓ Optimum working conditions with a central view, thanks to sliding function



Gain more info:
Web code **#3929**

Cable cutters with ratchet mechanism

Precise cutting up to Ø 58 mm

CUTFOX ratchet cable cutters enable the effortless and precise cutting of copper and aluminum conductors up to Ø 58 mm. The ratchet mechanism, high-quality blades, and release in any cutting position ensure comfortable use, clean cuts, and durability.



Main features

- For copper and aluminum conductors from Ø 32 mm to Ø 58 mm
- With ratchet mechanism
- One- or two-hand operation
- Release is possible in any cutting position
- Flat-ground blades made of tempered steel
- Individually replaceable components
- Robust design

Your advantages

- ✓ Less effort required when cutting large cables, due to the ratchet mechanism
- ✓ Reliable cutting results without cable deformation, due to precision-ground blades
- ✓ High process reliability with clean cuts and release in any cutting position
- ✓ Long service life due to the robust design and replaceable components



Gain more info:
Web code **#4393**

Buttons, switches, and indicator lights

Operating and signaling made easy

The buttons, switches, and indicator lights can be combined and mounted without using tools. The products use tool-free Push-in Technology for easy connection. The wide-ranging portfolio offers over 200 items.



Main features

- Modular system kit
- Configurator
- Various colors and LED versions
- Buttons: push buttons, mushroom push buttons, and emergency switching off buttons
- Various button panels and function types
- Switches: rotary switches and key switches
- Various switch positions and functions
- Indicator lights

Your advantages

- ✓ Highly convenient operation due to tool-free Push-in connection technology and touch-proof design
- ✓ Wide voltage input enables direct connection to 24 V ... 240 V AC/DC nominal voltage
- ✓ Tool-free mounting and installation
- ✓ Long service life due to the robust design
- ✓ Anti-induced voltage, prevents the LEDs from flickering



Gain more info:
Web code [#4312](#)

Sockets with USB interfaces

Universal with three connections

The electrical outlets with a German and American pin connector pattern feature an additional USB-A and USB-C interface. This means that various devices can be supplied. You can choose between Push-in and screw connection for the power connection.



Main features

- Pin connector pattern: Germany / USA
- 16 A, 250 V / 15 A, 125 V
- USB interfaces: USB-A and USB-C
- USB values: 5 V, 3 A (total), efficiency: DOE Level IV
- Connection method: Push-in / screw
- Conductor cross-section: 0.2 mm² ... 4 mm² / 24 AWG ... 12 AWG
- LED display for USA types
- Conforms with relevant safety standards

Your advantages

- ✓ 3-in-1: ready-to-use power supply for external devices during maintenance and servicing
- ✓ Safe USB power supply and fast charging with 15 W USB power
- ✓ Energy savings with a particularly high efficiency of the USB interface in no load and partial-load operation
- ✓ Flexible mounting: DIN rail mounting or direct mounting via screw
- ✓ Quick and easy installation with Push-in connection technology

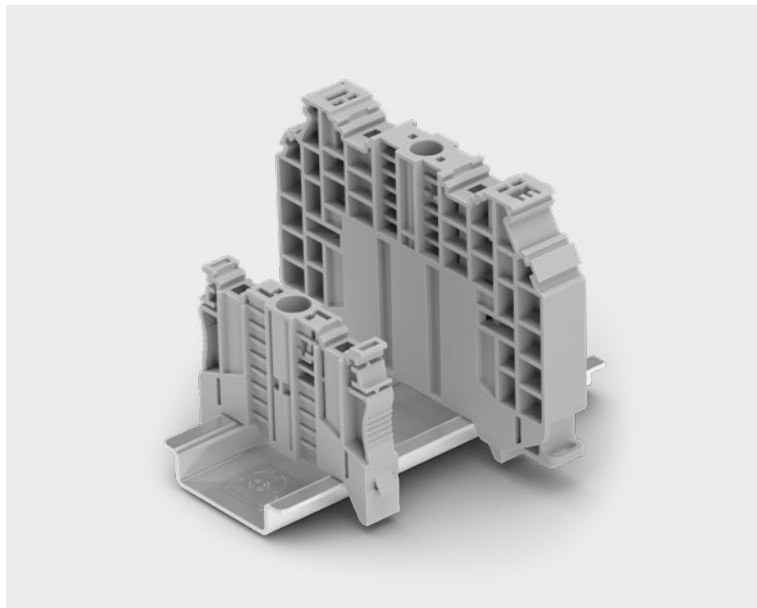


Gain more info:
Web code **#3676**

CLIPFIX pro modular end brackets

Flexible, robust, and modular use

The new CLIPFIX pro generation of end brackets are a modular solution for securely fastening terminal blocks. The clip-on XL expansion allows you to enlarge the end bracket, making it ideal for larger devices, high-current terminal blocks, and power supplies.



Main features

- Modular system with XL expansion
- Various marking options
- Neutral busbar mounting
- Mounting for covers
- High stability
- Expandable with an XL module

Your advantages

- ✓ Easy mounting and removal with integrated screw fastening
- ✓ High degree of flexibility through modularity
- ✓ Robust and vibration-resistant
- ✓ Same design as most terminal blocks in the XT and PT series
- ✓ Future-proof system solution



Gain more info:
Web code [#4380](#)

Configurable signal tower with IO-Link

Individual signaling

The new signal towers use IO-Link to communicate machine and system states in individually adjustable colors and tones. The signal towers are available in two sizes with nine or 15 segments. The robust design enables them to be used in many applications.



Main features

- Traffic light mode, autoscale mode, level mode, or individual mode
- IO-Link communication
- Ten different signal tones
- RGB color spectrum
- M12 connection technology, 4-pos.
- 9 or 15 segments with and without acoustic element



Your advantages

- ✓ High degree of flexibility with individual configurations in one compact tower
- ✓ Easy parameterization in PLCnext Engineer
- ✓ Clear signaling with homogenous light pattern and full-surface light fixture
- ✓ Robust industrial design for harsh environments



Gain more info:
Web code **#3725**

Signal lights for smart applications

Signaling of functional areas

The lights are available in two compact, application-oriented designs, specifically developed for M22 installation. Different signaling options are simply controlled via multicolor LEDs using bit combinations.



Main features

- Multicolor and multifunctional
- Wear-free touch button
- M22 installation and M12 connection
- Excellent color fastness
- 2 designs
- ECO mode

Your advantages

- ✓ Clear and reliable signaling increases system availability
- ✓ Cost savings due to easy installation
- ✓ A wide range of possible applications (optical and acoustic) with the coordinated product portfolio
- ✓ Compact design enables installation in confined spaces



Gain more info:
Web code [#3781](#)

LED enclosure light with socket

Universal lighting of control cabinets

The light is used to illuminate control cabinets. It can be used universally due to its AC wide range input and country-specific sockets. A motion detector is integrated. Various mounting options round out the product.



Main features

- AC wide range input 100 V AC ... 240 V AC
- Country-specific sockets
- Integrated motion detector
- Light output: 1,400 lm
- Color temperature: 5000 K (neutral white)

Your advantages

- ✓ Optimum illumination of the control cabinet due to glare-free optics
- ✓ Modern and robust design for a long service life
- ✓ Brightly lit work area due to high light output
- ✓ Sockets enable the operation of external devices



Gain more info:
Web code **#3726**



Open communication with customers and partners worldwide

Phoenix Contact is a global market leader based in Germany. We are known for producing forward-thinking products and solutions for the comprehensive electrification, networking, and automation of all sectors of the economy and infrastructure. With a global network, we maintain close relationships with our customers, something we believe is essential for our common success.

You can find your local partner at
phoenixcontact.com

