NEW PRODUCTS

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Issue 1/2026

PHOENIX CONTACT

New products 2026

Developed with passion

With a passion for innovation and technology, Phoenix Contact develops products and solutions for a sustainable world. Take inspiration from our new products.

You can filter our new products on the Internet: **phoenixcontact.com/new-products**













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From farmer to solar farmer: Josef Ecker and his team plan, install, and operate solar parks – with components and support from Phoenix Contact.

Find out more

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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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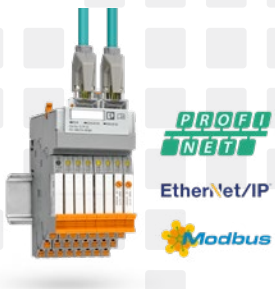
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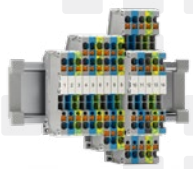
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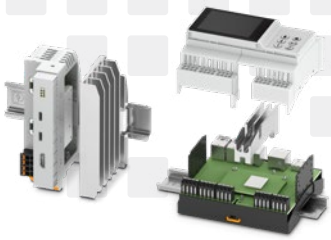
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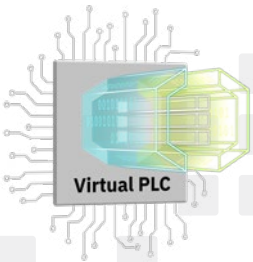
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New cooling concept enables charging powers of up to 1,000 kW



Individual connection concept for your HPC charging station



Completely replaceable mating face for sustainable maintenance

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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 connect
E-Mobility empowered by Phoenix Contact

High Power Charging Technology
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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The new generation of CCS charging cables

Robust, easy to maintain, and carefully considered

Our new generation of the proven CHARX connect standard CCS charging connectors covers the medium power range from 150 to 250 kW. In the new housing design, the product family offers many improvements in terms of robustness, safety, billing, and maintenance.



Main features

- Charging standard: CCS type 2
- DC rated current: 150 A … 250 A
- DC rated voltage: 1,000 V
- Conductor cross-section: 2 x 35 mm² … 70 mm²
- Temperature sensors: 2 x Pt 1000
- Four-wire measurement technology
- Degree of protection: IP54 (when plugged in)
- Cable length: 4 m … 10 m

CHARX connect
E-Mobility empowered by Phoenix Contact

Your advantages

- Broad portfolio for all DC charging applications in the medium power range
- Particularly robust and durable connector design for high availability
- Prepared for four-wire measurement technology, enabling simple billing compliant with calibration laws
- High-level safety with two-chamber sealing system for the separation of DC+ and DC-
- Fast and cost-effective maintenance with exchangeable mating face including power contacts

Gain more info:
Web code #3517

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The new generation of GB/T DC charging cables

Robust, durable, and adaptable

The new CHARX connect standard DC charging connectors in accordance with the Chinese GB/T standard cover performance classes 125 and 250 kW. They can be adapted to your needs and impress with their high-quality materials, reliable technology, and ergonomic handling.



Main features

- Charging standard: GB/T
- DC rated current: 125 A ... 250 A
- DC rated voltage: 1,000 V
- Conductor cross-section: 2 x 35 mm² ... 70 mm²
- Temperature sensors: 2 x Pt 1000
- Degree of protection: IP54 (when plugged in)
- Cable length: 2 m ... 10 m
- CE certification

CHARX connect
E-Mobility empowered by Phoenix Contact

Your advantages

- Robust and durable design for particularly high availability under harsh conditions
- Freely controllable LED strip for intuitive status display in your company colors
- Optional Boost Mode allows higher charging powers up to 500 kW for a short period
- Optional S1 switch for implementing customer-specific applications
- With custom housing color, customer logo, and alternative temperature sensor technology on request

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The separate handle ensures comfortable handling



Robust touch protection with molded caps

UL 2251

SAE J3400

IEC 62196-3

IATF 16949

100 % standard-compliant

Particularly high quality and compatibility with 100% compliance with standards

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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
- Conformance with UL, SAE, IEC, and IATF standards ensures particularly high quality and compatibility
- Available on request with your logo, custom cable length, and assembled cable end

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NACS charging cables for AC charging up to 80 A

UL-certified and SAE-compliant

For the North American Charging Standard, we offer 100% standard-compliant charging cables that deliver maximum safety and proven industrial quality: The robust NACS charging connectors in the CHARX connect eco family are easy to handle and enable AC charging with up to 80 A.



Main features

- Charging current: 50 A, 80 A
- Rated voltage: 500 V
- Conductor cross-section: 10 AWG, 6 AWG
- Cable length: 25 ft (additional lengths on request)
- Optional temperature sensor technology: NTC
- Degree of protection when plugged in: IP67
- Degree of touch protection: IPXXB
- Certifications / standards: UL 2251, SAE J3400, IATF 16949

CHARX connect
E-Mobility empowered by Phoenix Contact

Your advantages

- Conformance with UL 2251, SAE J3400, and IATF 16949 ensures particularly high quality, safety, and compatibility
- IPXXB touch protection with molded caps provides maximum electrical safety
- Optional temperature sensor technology protects against overheating
- Ergonomic design facilitates handling
- Available on request with your logo, custom cable length, and assembled cable end

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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-level 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

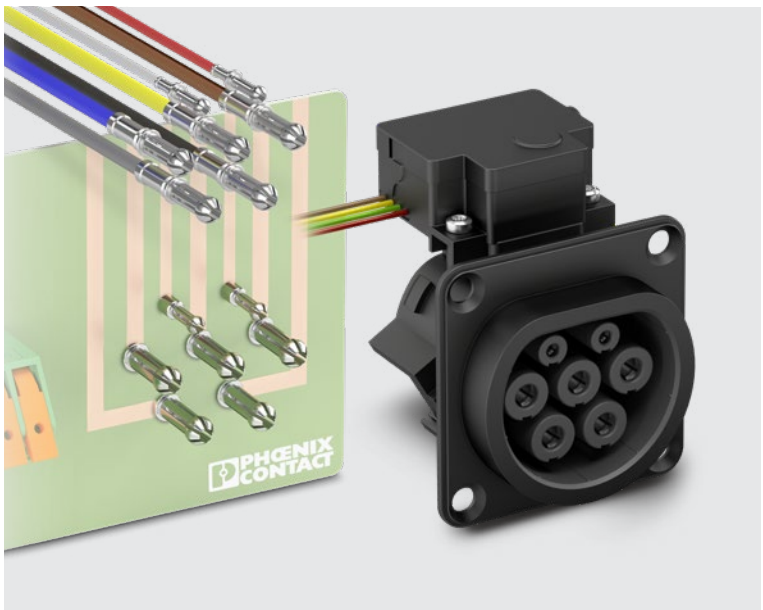
Gain more info:
Web code #3915

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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 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

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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
- OCPP version: 1.6 J
- ISO 15118-2 support in accordance with AFIR
- 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
- Increased security through encryption in accordance with ISO 15118-2 provides protection against tampering and misuse
- Improved cybersecurity minimizes the risk of unauthorized access to your EV charging stations

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AC charging controllers simplify calibration law

Update shortens calibration law certification

The AC charging controllers in the CHARX control modular family are the centerpiece of an intelligent charging infrastructure. With software release 1.8, the calibration law concept has been fundamentally revised, which significantly shortens the certification process for your charging solution.



Main features

- Software version: 1.8
- Supported OCMF-compatible MID energy meters: Iskra WM3M4C, Bauer BSM-WS36A, EMH iML e-moc, others on request
- No loss of calibration law certification with future updates
- Various security patches
- Download of update file via the item page

CHARX control
E-Mobility empowered by Phoenix Contact

Your advantages

- Several energy meters to choose from, so your calibration law solution can be designed flexibly
- No expensive recertification, as the calibration law certificate remains valid for future software updates
- Improved cybersecurity minimizes the risk of unauthorized access to your EV charging stations

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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 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

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Unique worldwide: charging inlet and controller in one component



Plug-in cables with three possible outgoing directions



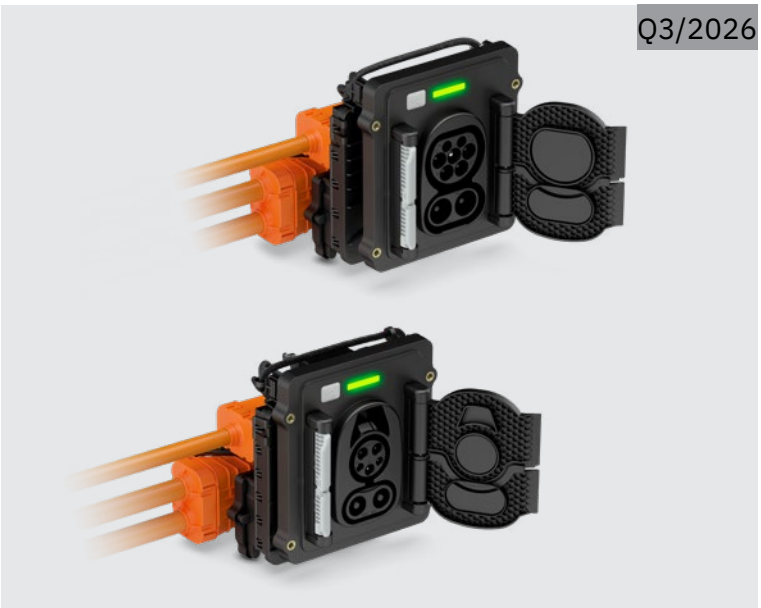
Practical features for increased safety and ease of use

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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 outgoing directions for maximum installation flexibility
- Protective cover, cancel charging button, search light, and LED display for added convenience

View 3D object

Play video

Gain more info:
Web code #3979

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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

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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

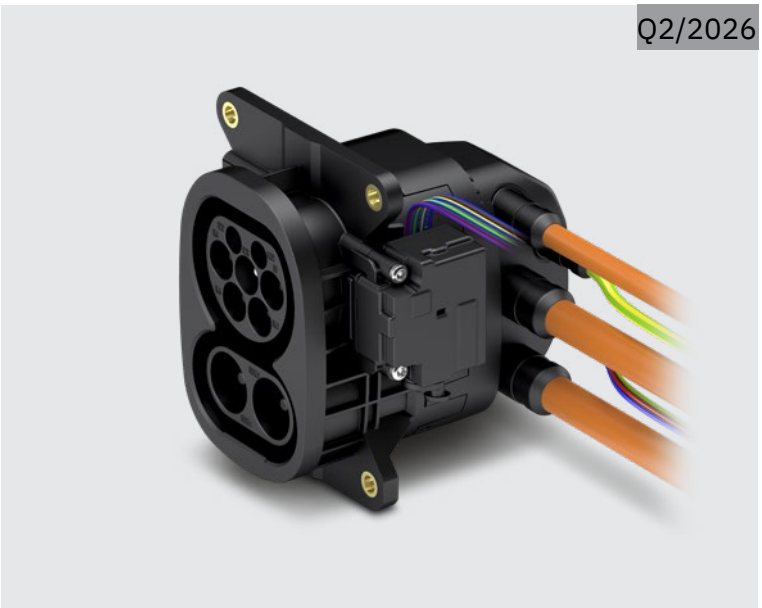
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Web code #3722

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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 (left version on request)
- Cable length: 2 m (additional lengths on request)
- Installation depth: 128.5 mm
- DC charging current in Boost Mode: up to 500 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 installation of the cable harness
- Temperature hotspots avoided due to the larger bending radius
- 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

Gain more info:
Web code #3831

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Power supplies for machine building

Plug-and-play solution with device protection

The new 3-phase TRIO POWER power supplies with integrated multi-channel device protection feature a space-saving design, a robust and reliable supply, easy handling, smart diagnostics, and the IO-Link interface.



Main features

- 8-channel device protection
- Prioritized load management
- Dynamic boost of up to 150% for 5 s
- Comprehensive signaling: collective signal contact, multicolor LED, and IO-Link interface
- Channels reset via remote reset

Push-in Technology
Designed by Phoenix Contact

Your advantages

- Supply and protection in one device due to the integrated multi-channel device protection
- Low installation costs due to 70% less wiring and installation effort
- Easy commissioning through intuitive manual operation or parameterization via IO-Link
- High availability due to prioritized load management with intelligent self-monitoring functionality
- Space-saving due to the low overall width, depth, and capability of being mounted side by side

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Power supplies for machine building

Compact plug-and-play solution

The new power supplies with special voltages and NEC Class 2 output extend the portfolio of the TRIO POWER family. The devices impress with their space-saving design, robust and reliable supply, easy handling, and smart diagnostics.



Main features

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

Push-in Technology
Designed by Phoenix Contact

Your advantages

- Space-saving due to the low overall width, low overall depth, and capability of being mounted directly side by side
- Robust and reliable due to dynamic boost with a powerful output characteristic curve for starting difficult loads
- Smart diagnostics with multicolor LED and collective relay contact for a clear status display
- Easy handling with Push-in connection technology, marking fields, stripping identification, and tamper-proof setting

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Gain more info:
Web code #3789

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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

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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

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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

Push-in Technology
Designed by Phoenix Contact

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 #3538

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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

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Power supplies for panel mounting

High power in compact housing

The new power supply for panel mounting from the TRIO POWER range supplies power of up to 2.5 kW. It is suitable for use in a variety of applications, including in machine building, in the robotics and semiconductor industry, and in battery storage systems.



Main features

- Input 1 AC: 85 V AC ... 264 V AC
  Output DC: 24 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
- Intelligent fan control
- 2 auxiliary voltage supplies: 5 V / 2 A
- Flexible panel mounting

Your advantages

- High power density and high efficiency with a compact design
- Robust and reliable due to dynamic boost with a powerful output characteristic curve
- Comprehensive monitoring via LED signaling and CAN bus interface
- Easy power increase with parallel connection with integrated O-ring diode
- Increased output voltage with series connection

Gain more info:
Web code #3666

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Easy handling



Save space in the control cabinet



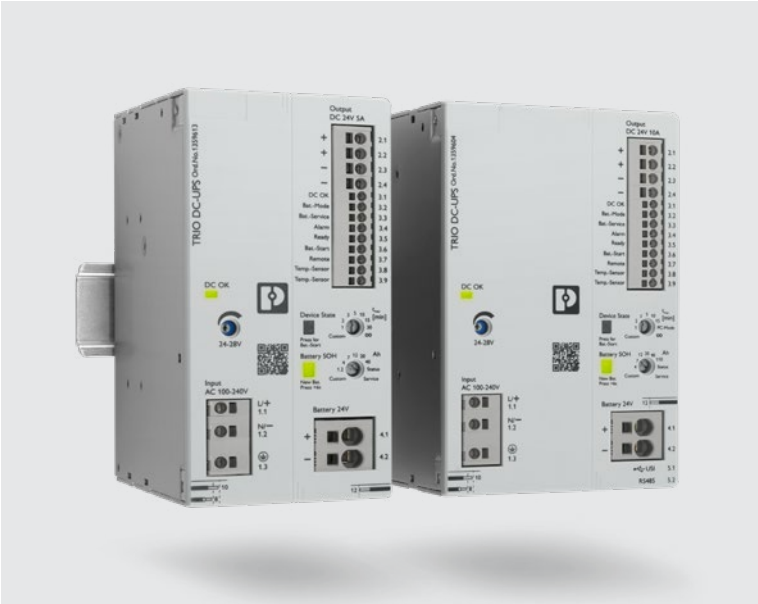
Direct diagnostics with multicolor LEDs and signal contacts

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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

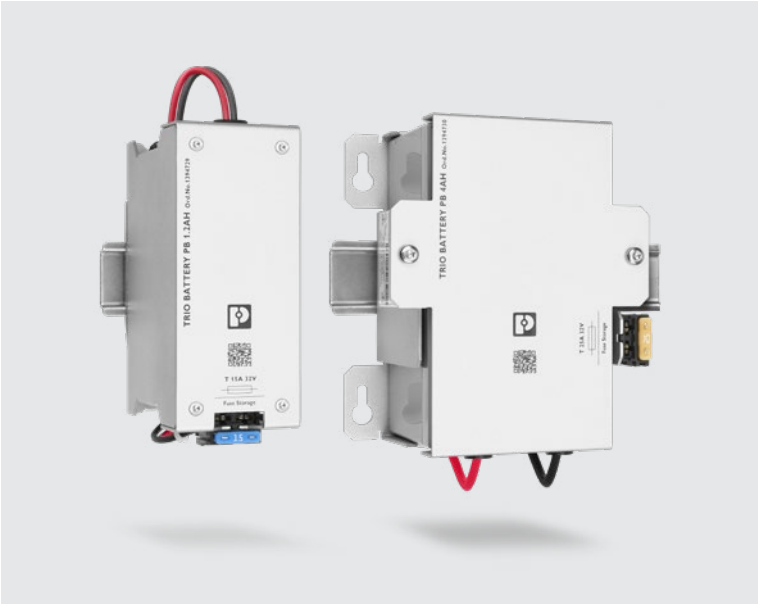
Gain more info:
Web code #3770

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TRIO battery modules for TRIO UPS

Battery modules for easy handling

The new TRIO battery modules are available in four capacities ranging from 1.2 to 12 Ah. The robust metal housing is equipped with cables and fuse holders for easy handling. The TRIO battery modules are the perfect addition to our TRIO UPS family.



Main features

- Lead AGM (Absorbent Glass Mat) technology
- Temperature range: -20°C ... +50°C
- Service life at +20°C: 6 years
- Buffer times: 1 A/11 h or 40 A/8 min

Your advantages

- Long buffer times under normal conditions
- Convenient wall or DIN rail mounting in the uniform design of the TRIO UPS modules
- Comprehensive approval package, compatible with TRIO UPS
- Easy handling with preassembled cables and fuse holders
- Immediate availability, all battery modules leave our warehouse fully charged

Gain more info:
Web code #3539

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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

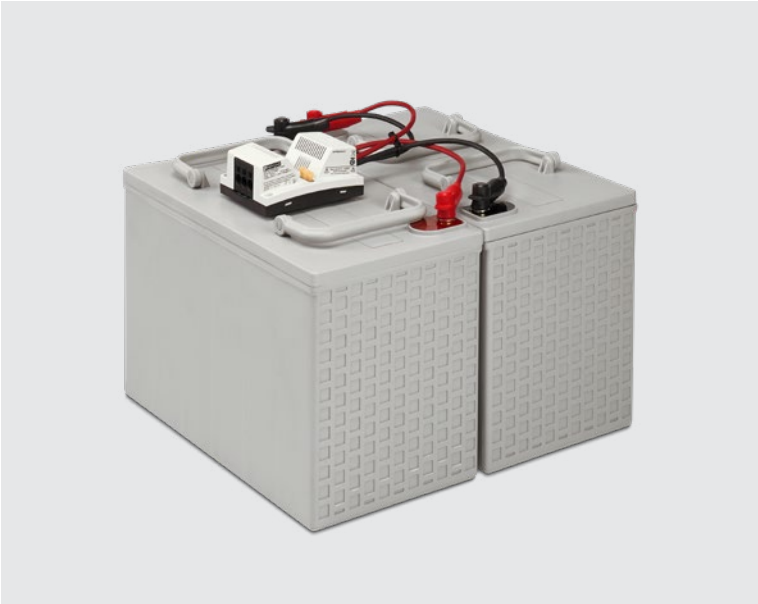
Gain more info:
Web code #3794

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

Lead battery module with IQ Technology

For long buffer times

The new battery module has a capacity of 110 Ah. For continuous monitoring and intelligent management, there is constant communication with the QUINT UPS. The automatic detection of the battery enables quick installation.



Main features

- Lead AGM (Absorbent Glass Mat) technology
- Temperature range: 0°C ... +50°C
- Service life at +20°C: 10 years
- Buffer times: 1 A/110 h or 40 A/130 min

IQ Technology
Designed by Phoenix Contact

Your advantages

- Quick installation with automatic detection of the battery module and tool-free replacement during operation
- Very high availability due to constant communication with the QUINT UPS for continuous monitoring and intelligent management
- Very long service life due to optimum charging characteristics
- Immediate availability, all battery modules leave our warehouse optimally charged

Gain more info:
Web code #3541

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

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

- Dynamic 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

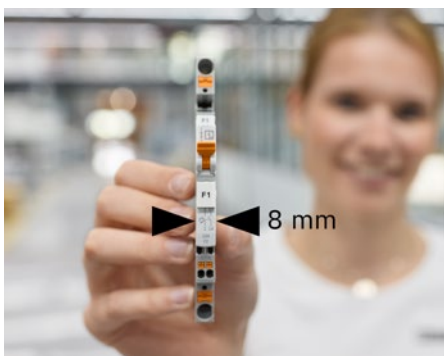
- Reliable maintenance-free use and long service life of up to 20 years
- Maximum system availability and cost optimization with a 3-in-1 solution
- Time-saving installation with Push-in connection and easy handling with clear setting options
- Boost function bridges peak loads and allows an optimum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

Gain more info:
Web code #3920

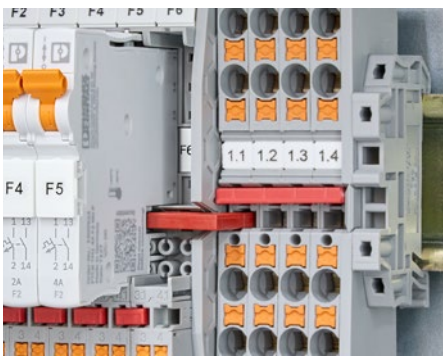
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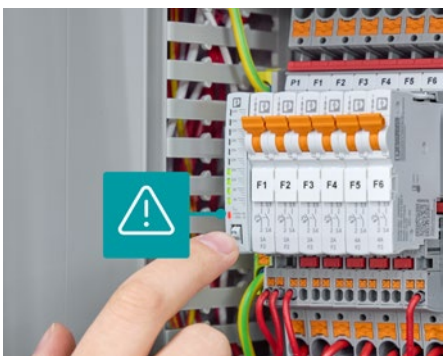




65% space savings compared to conventional MCBs



Compatible with the CLIPLINE complete terminal block range



Status that can be viewed at any time and alignable current monitoring

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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

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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

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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

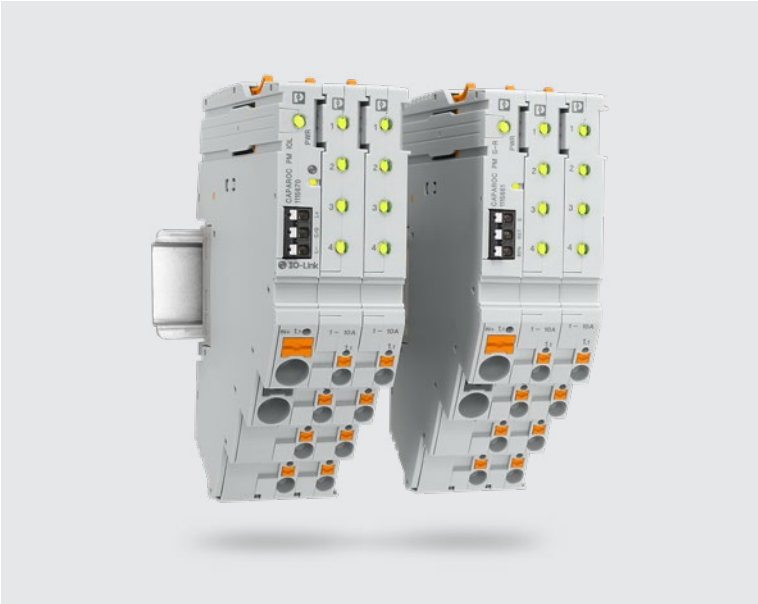
Gain more info:
Web code #3925

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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

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

CAPAROC circuit breaker system

Overcurrent protection for load currents of up to 20 A

CAPAROC impresses with an ever-increasing scope of functions. Now, you can connect up to four loads to the 1-channel circuit breakers, thereby protecting loads with nominal currents of up to 20 A. The modules enable selective protection in series for a decentral application.



Main features

- Incrementally adjustable and fixed nominal currents up to 20 A
- Coordinated, selective protection in series
- Potential distributor with up to four loads across 12.4 mm
- Startup of high loads with active current limitation
- Electronic interlock
- Push-in connection up to 4 mm²

Your advantages

- The customizable standard, with individual combinations of the future-proof modular system
- Easy operation for everyone through tool-free assembly, uninterrupted installation, and transparent operating state
- Protection and supply of particularly large loads with the extended nominal current range up to 20 A

Gain more info:
Web code #3677

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

CAPAROC circuit breaker system

Communicating via EtherNet/IP™

The individual modular system provides access to different applications via various communication interfaces. The new feed-in module with EtherNet/IP™ interface enables the development of communicative solutions, in particular for the American market as well.



Main features

- Data exchange via system bus interface to QUINT POWER
- EtherNet/IP™ communication
- Function blocks and add-on instruction for the Studio 5000 EtherNet/IP™ engineering tool
- Up to 45 A total system current
- Supply voltage: 12 V DC … 24 V DC

EtherNet/IP™

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 #3420

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

New benchmark in surge protection

Easy and safe installation and operation

High demands are placed on the availability of electrical systems. With the surge protective devices in the Safe Protection Plus product family, Phoenix Contact combines forward-thinking installation and safety features for very high system availability.



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
- Versatile use at altitudes up to 5,000 m
- Wide range for AC and PV applications

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
- Simple planning due to comprehensive digital data and selectors

Play video

Gain more info:
Web code #3511

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

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 disconnector
- 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

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

New benchmark in surge protection

Base element for PV applications

The new VAL-SPP-BE-4+V... base element saves space in the control cabinet in PV applications with three MPP trackers. The base element is assembled with VAL-SPP-PV connectors of type 1 or type 2, can be used up to an altitude of 5,000 m, and offers easy and safe installation.



Main features

- Versatile use at altitudes up to 5,000 m
- Low tightening torque of 3 Nm
- Miswiring protection
- Double insulation
- Can be used for T1 and T2 applications
- 4+V circuit (Y circuit)

Your advantages

- Easy and safe installation with forward-thinking handling and safety features
- Space savings for inverters with three MPP trackers with the safe 4+V circuit
- Can be used up to an altitude of 5,000 m with the optimized design with improved air clearances and creepage distances
- Versatile in application, because it can be assembled with type 1 and type 2 VAL-SPP PV connectors

Gain more info:
Web code #3679

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Lightning current arresters for DC grids

For industrial applications up to 1,000 V DC

DC grids offer numerous advantages over AC power grids and play an important role in the energy transition. The new VAL-MB-T1/T2-1000DC-2+V-R lightning current arrester reliably protects DC grids against damage caused by lightning currents and surge voltages.



Main features

- Lightning current arresters, in accordance with type 1 / type 2
- Can be used in applications up to 1,100 V DC Uc
- Extended insertion funnels
- Extended screw shafts
- Touch protection
- Integrated remote indication contact
- Can be used at altitudes up to 6,000 m

Your advantages

- Safe operation of DC voltage supply systems with reliable protection against surge voltages lightning currents
- For use in unipolar, linear DC supply systems up to 1,000 V DC continuous voltage
- Space-saving installation with the compact design
- Excellent level of information provided by mechanical/visual status indicator and remote indication contact

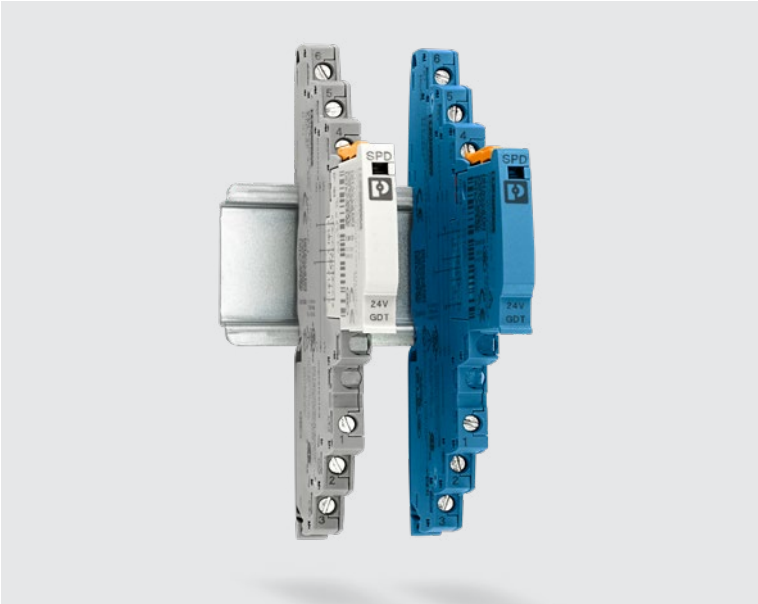
Gain more info:
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Surge protection for APL applications

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

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

Surge protection for 230 V signals

High-level protection with a compact overall width

The new CLT-10P/2-MOV-230V-I-P pluggable surge protection provides reliable protection against surge voltages in 230 V signal applications. They are installed on two PT 2,5-...CLT type Push-in terminal blocks. Maintain safety and efficiency with one product.



Main features

- Easy installation
- High-performance protective circuit
- Integrated overload protection
- Optional remote signaling
- Narrow overall width
- Can be tested with CHECKMASTER 2

Your advantages

- Easy installation with Push-in terminal blocks with pluggable surge protection
- Very high system availability with high-performance protective circuit with integrated overload protection
- Quick and easy diagnostics with optional remote signaling for integration into digital infrastructures
- Future-proof – meets international standards and directives, such as IEC 61643-21

Gain more info:
Web code #3681

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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

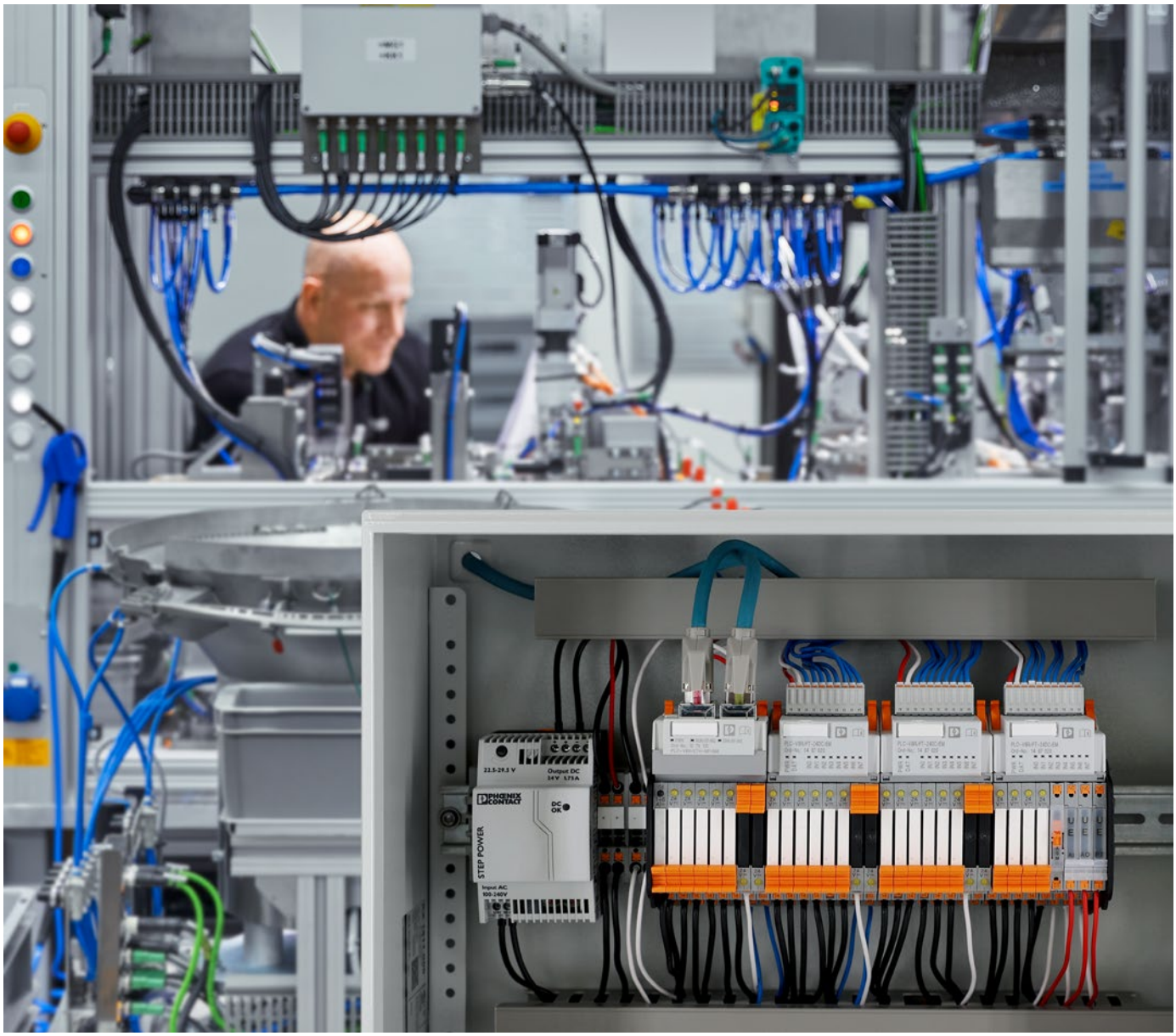
- Direct measurement up to 100 A AC (3-phase) / 45 A AC (1-phase)
- Measurement via current transformer: secondary 1 A / 5 A
- Accuracy class C (EN 50470-3)
- Operating temperature: -40°C ... +70°C
- Input voltage range: 100 V AC ... 277 V AC (phase / neutral conductor) / 173 V AC ... 480 V AC (phase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

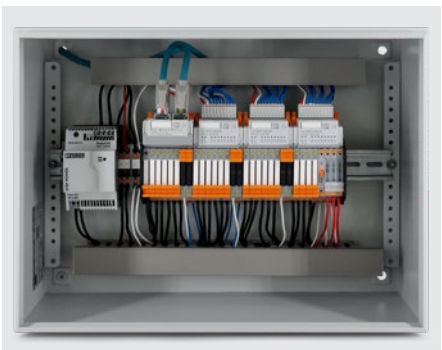
Your advantages

- 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

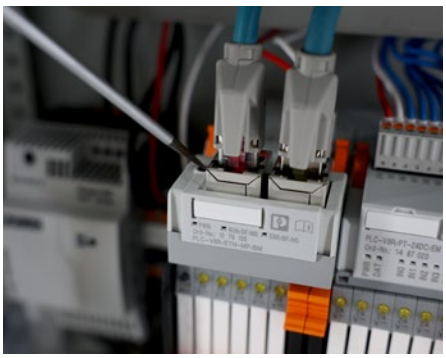
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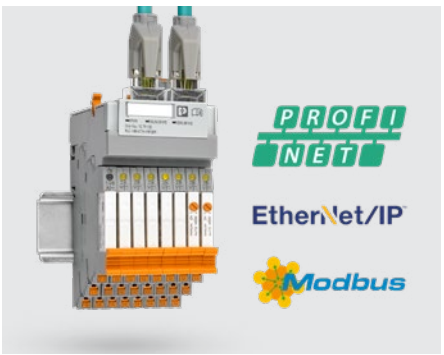




Flexible channel configuration in the decentral control box



Multi-protocol connection to the network module



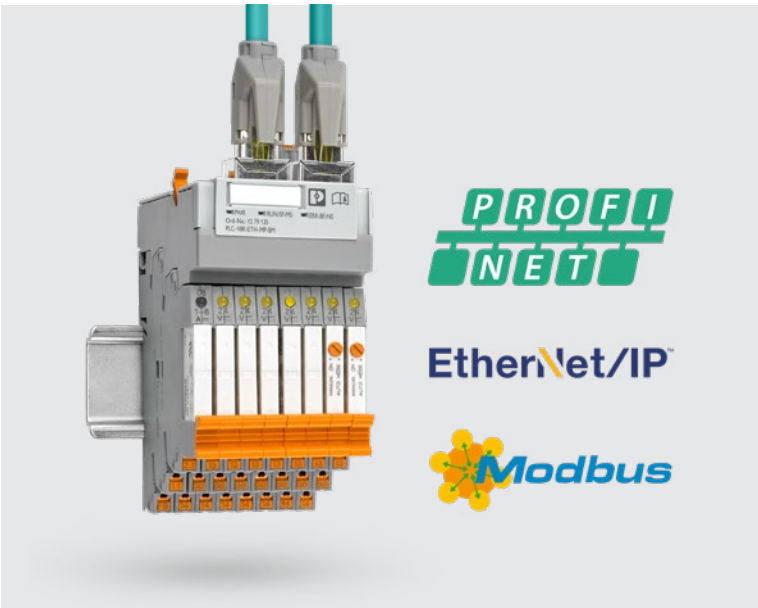
Compatibility with established controller software

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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 and fast integration into the control level due to compatibility with established control software

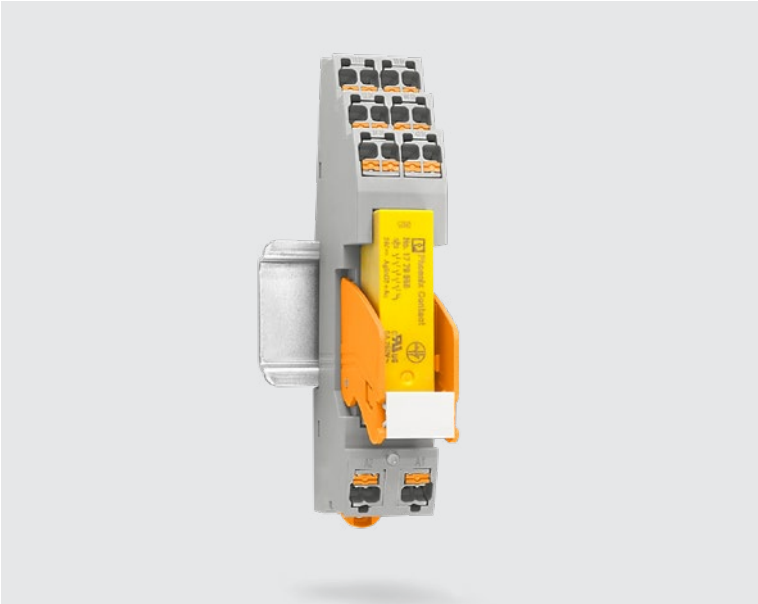
Gain more info:
Web code #3932

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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

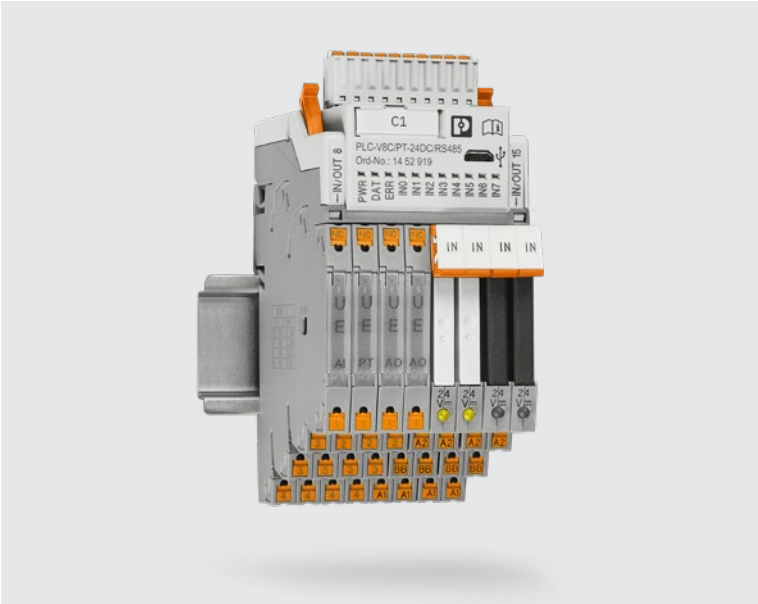
Gain more info:
Web code #3911

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

Highly compact, network-capable logic modules

Fast Modbus/RTU connection

Networking via RS-485 Modbus/RTU makes it easy to integrate the smart PLC logic into higher-level controllers. Implement distributed remote I/O access to process data as well as to operating notifications and error messages from the PLC logic quickly and reliably.



Main features

- Easy network configuration via web-based management (WBM)
- Scheduling and biasing
- Broadcast functionality
- Easy networking with Modbus/RTU via RS-485
- Distributed control functionality maintained even if communication fails
- Push-in connection technology

Your advantages

- High availability with plug-in switching elements and distributed control functionality
- Optimum flexibility with customized combination as input or output with relay or analog modules per channel
- Easy implementation of projects with intuitive programming
- Fast networking with Modbus/RTU via RS-485

Gain more info:
Web code #3320

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

Relay modules – switching and fuse protection

Highly compact circuit breaker

PLC-INTERFACE offers the innovative combination of a relay interface and electronic fuse (circuit breaker) in an overall width of just 6.2 mm, for more space in the control cabinet. The nominal current and shutdown behavior can be configured individually via DIP switches on the device.



Main features

- Configurable with DIP switch
- Circuit breaker with physical disconnection via relay
- Compatible with PLC-INTERFACE relay modules
- Easy function extension in existing systems
- Space-saving design with an overall width of 6.2 mm

Your advantages

- Space-saving installation in the control cabinet with the combination of relay interface and circuit breaker in an overall width of 6.2 mm
- Reduced wiring effort with comprehensive accessories, bridging options, and system cabling solutions
- Easy system integration and function extension of existing installations due to compatibility with PLC-INTERFACE relay modules

Gain more info:
Web code #3519

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

Relay modules – inverting signals

Compact signal inversion (PNP/NPN)

The inverter module is a 6.2 mm wide solution for inverting PNP into NPN signals and vice versa. With this coupling element, you can benefit from all the advantages of the PLC-INTERFACE relay system to implement different types of circuit with Push-in and screw connection technology.



Main features

- Inverts the signals of ground switching NPN transistor outputs into positive switching PNP outputs, as well as signals from PNP into NPN switching signals
- Overall width: 6.2 mm
- Push-in or screw connection technology
- Operating temperature range up to +60°C
- Maximum transmission frequency: 15 kHz
- Bridging options

Your advantages

- Easy signal inversion (PNP/NPN and vice versa) for the DIN rail
- Space-saving control cabinet solution with a compact overall width of 6.2 mm
- Flexible connection with versions with Push-in and screw connection technology
- System compatibility with the PLC-INTERFACE relay system with bridging and marking options. Highly compact relay modules are part of the COMPLETE line system

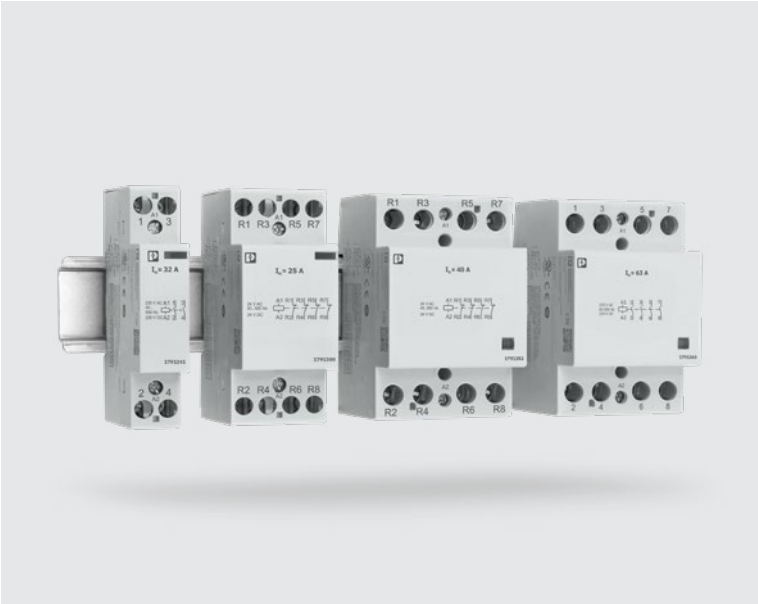
Gain more info:
Web code #3520

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

Multifunctional DC circuit breakers

Protecting, monitoring, and switching DC loads

Protect, monitor, and switch high DC loads with the CONTACTRON ELR HDC multifunctional DC circuit breaker with hybrid technology. Benefit from intuitive parameterization, data logging, network capability, and sustainable efficiency increases with energy recovery.



Main features

- Overall width: 85 mm
- Operating current: 10 A ... 55 A
- Communication interfaces: IO-Link, DIO
- Operating voltage: 0 V ... 810 V
- Protection against overcurrent and overvoltage/ undervoltage
- Intuitive configuration with clipx ENGINEER
- Integrated pre-charging for intermediate circuits
- All-position electrical isolation with relay

POWER

IO-Link

Your advantages

- Arc-free switching with hybrid technology with protection and monitoring functions in DC grids
- Space savings with an overall width of just 85 mm
- Avoidance of current peaks with integrated pre-charging function
- Optimum user-friendliness with intuitive parameterization with clipx ENGINEER and easy communication via IO-Link
- Sustainable increase in efficiency through energy recovery in DC grids

Play video

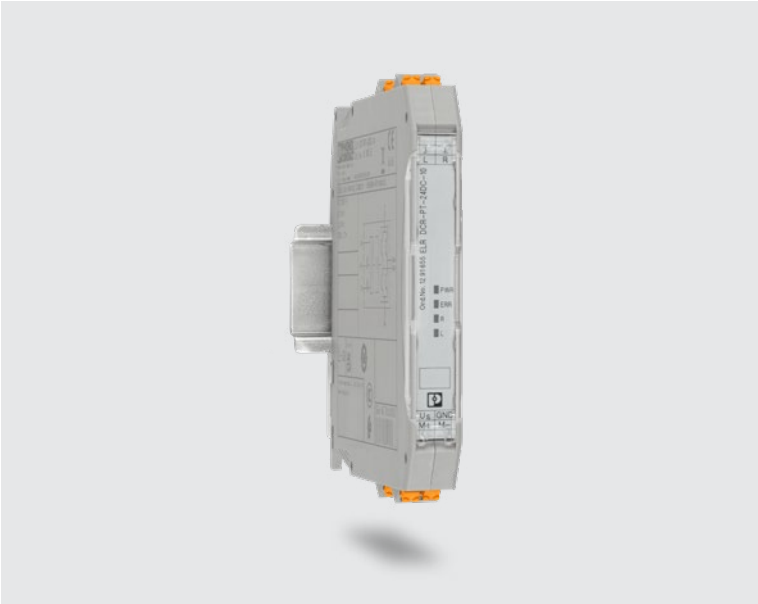
Gain more info:
Web code #3651

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

Motor starters – safe switching of DC motors

Compact reversing load relays for DC motors

Reversing load relays enable the fast switching and braking of DC motors. An output protected against short circuits, surge voltages, and overloads ensures reliable operation. The internal locking circuit and load wiring minimize the wiring effort.



Main features

- Switching and reversing of DC motors up to 24 V DC/10 A
- Compact overall width: 12.5 mm
- Push-in connection technology
- Output protected against short circuits, surge voltages, and overloads
- Wear-free and quick switching

Your advantages

- High system availability through safe and fast switching with wear-free electronics
- Narrow design saves space in the control cabinet
- Easy wiring with integrated locking circuit and load wiring
- Reliable operation with short-circuit-, surge-, and overload-proof output
- Robust against shocks and vibrations

Gain more info:
Web code #3521

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

IFS PROFIsafe Gateway

Safe network for your motor starters

The IFS PROFIsafe gateway enables the easy network integration of up to 15 motor starters. Switch the enable inputs of your motor starters safely: Save valuable I/Os in the control level and use the cost-effective solution for the interface level.



Main features

- Integration of IFS devices in PROFIsafe
- Safe digital inputs and outputs
- Additional digital inputs and outputs
- Functional safety for individual and group shutdown in three-phase motors
- Cost-effective solution
- Overall width of just 45 mm

Your advantages

- Safe shutdown of motor starters with safe outputs
- Space savings in the control cabinet due to the compact design that is just 45 mm wide
- Easy extension options with additional I/Os
- Fast configuration, condition monitoring, and diagnostics via automation software or clipx ENGINEER Device Parameterization Tool
- Save network addresses with the Interface system (IFS) bus connection

Gain more info:
Web code #3522

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

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 kΩ / 1 kΩ, 10 kΩ / 1.5 kΩ, 22 kΩ / 620 Ω, 22 kΩ / 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

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

Current measuring transducers with web-based management

Intuitive configuration and precise measurement

The ECM UC current measuring transducer saves you a lot of time with the intuitive device configuration via web-based management. The products detect AC, DC, and distorted currents from 0 to 100 mA up to 0 to 100 A with an accuracy of <0.5%.



Main features

- Measurement of AC, DC, distorted currents
- Measuring ranges:
  0 mA ... 100 mA to 0 A ... 125 A, max.
- Measurement accuracy: <0.5%
- Output signals: analog/digital
- Communication: Modbus/TCP, Modbus/RTU
- Max. altitude above msl: <4,000 m
- Ambient temperature, operation: -40°C ... 60°C
- Operating voltage: 9.6 V DC ... 30 V DC

Your advantages

- Intuitive configuration and visualization of measured data via user-guided WBM
- Easy connection to the PC via standard USB-C cable without additional 24 V supply
- High measuring accuracy of <0.5% in the measuring ranges from 0 mA ... 100 mA to 0 A ... 100 A
- Digital further processing of measured data with Modbus/RTU and Modbus/TCP versions
- Reliable even at temperatures down to -40°C and installation altitudes of up to 4,000 m

Gain more info:
Web code #3655

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

Multifunctional safety relays

Two protective functions in one device

With the PSRuni multifunctional safety relay, up to two 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 directly on the device via rotary coding switches
- Coverage of common safety functions, such as emergency stop, light grid
- Monitoring of two independent circuits
- Overall width: 22.5 mm
- 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 two safety functions in a single device
- Fast startup with easy configuration directly on the device
- Can be used in applications up to the highest safety level, SIL 3/PL e

Gain more info:
Web code #3735

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION Retrouvez nous sur www.limpulsion.fr







New WLAN modules with Wi-Fi 6/6E



Easy panel and profile mounting



Fast data transmission with flexible power supply

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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)

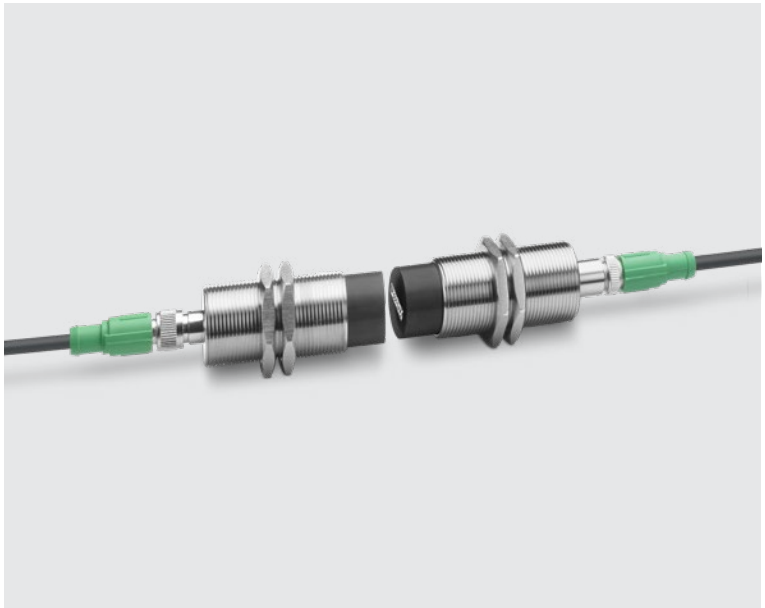
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IO-Link couplers

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

IO-Link

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

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

Contactless power and data transmission

Ethernet communication in the near-field range

NearFi couplers transmit power and real-time Ethernet data across an air gap. The new versions enable a greater range for data transmission (up to 100 mm) and more power during power transmission (up to 100 W for parallel connection).



Main features

- Ethernet transmission: 100 Mbps, full duplex, latency-free, fast startup <450 ms
- Power transmission: 50 W, 24 V DC / 2 A
- Power increase to 100 W with parallel connection
- Transmission of 2 electrically isolated voltages (US / UA) with parallel connection
- All-round LED ring

NearFi Technology
Designed by Phoenix Contact

Your advantages

- Contactless – no wear and no maintenance
- Protocol-independent and latency-free Ethernet real-time communication
- Flexible – a high degree of freedom when it comes to installation due to flexible proximity options
- Plug-and-play – no configuration needed
- Reduced installation time with M12 push-pull fast-connection technology

Gain more info:
Web code #3552

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr





Worldwide coverage



Integrated antennas



Secure: certified in accordance with IEC 62433-4-2

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

Ethernet-APL switches for the process industry

Ethernet down to the field level

Ethernet-APL enables safe and efficient data transmission in the process industry. With the Ethernet-APL field switches, sensors are integrated into the Ethernet network via a two-wire Ethernet connection. Data from the field level is available immediately.



Main features

- Data transmission via just one wire pair
- Use in explosion-protected areas is possible (zones 0, 1, and 2)
- Bridging of large distances: trunk lengths of up to 1,000 m, spurs up to 200 m
- Switches can also communicate with PROFIBUS PA devices
- High number of ports with a total of 12 or 24 APL ports

Your advantages

- Direct access to sensor data from the field level
- Cabling effort is reduced, as no additional cabling is required
- Complexity is reduced, as subsystems and gateways are no longer needed
- Cost-effective system modernization through the use of existing fieldbus cabling

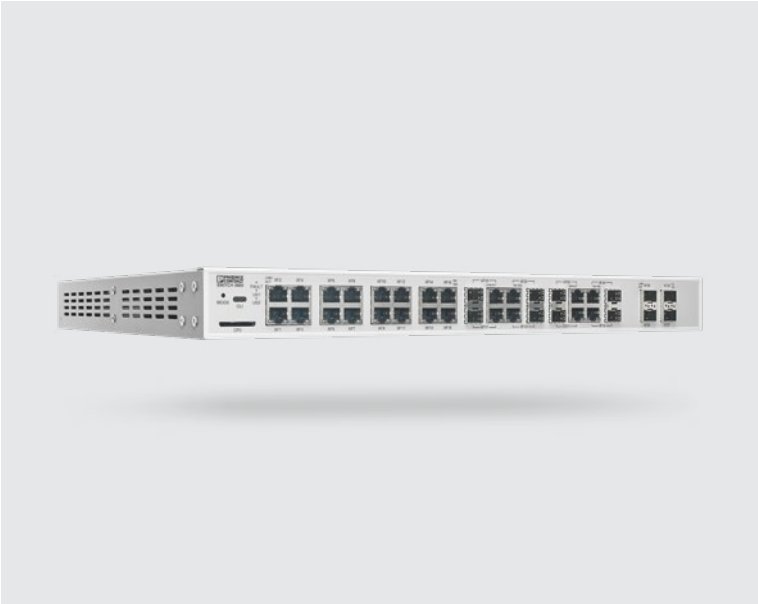
Gain more info:
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L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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 well-established 2000 series managed switches
- 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

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

Unmanaged PoE switches

PoE supply for field devices

The unmanaged Power over Ethernet (PoE) switches enable you to supply up to eight end devices with power and data via the same Ethernet cable. Select models also include SFP ports, which provide additional flexibility depending on the distance requirements.



Main features

- Gigabit unmanaged switches with up to 8 PoE ports
- Compliant with IEEE 802.3 af / at / bt
- Power budget up to 240 W
- QoS (Quality of Service) prioritized messages
- Version available with high IP67 degree of protection

Your advantages

- Prioritization of data traffic: increased network stability and system availability
- Flexible fields of application due to the variety of versions
- High performance for applications with high data throughput

Gain more info:
Web code #3549

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

DIN rail-mounted switches for building installation

Easy and space-saving installation

Thanks to their easy and space-saving installation, the unmanaged switches in DIN rail-mount format can be integrated directly into the distribution cabinets of electrical installations. The robust and high-performance network components simplify building networking.



Main features

- DIN rail-mount format
- Power over Ethernet (PoE) version with up to 30 W power per port
- Supports energy-efficient Ethernet
- Very high speed with Gigabit support

Your advantages

- Minimal installation effort and space required due to the DIN rail-mount format
- Reduced cabling effort: attached devices are supplied directly via PoE
- Fast commissioning via plug-and-play
- Easy operation, as no configuration is required

Gain more info:
Web code #3550

L'IMPULSION Retrouvez nous sur www.limpulsion.fr





Virtual PLC

Hardware-independent controller for easy scaling

Open architecture based on PLCnext Technology

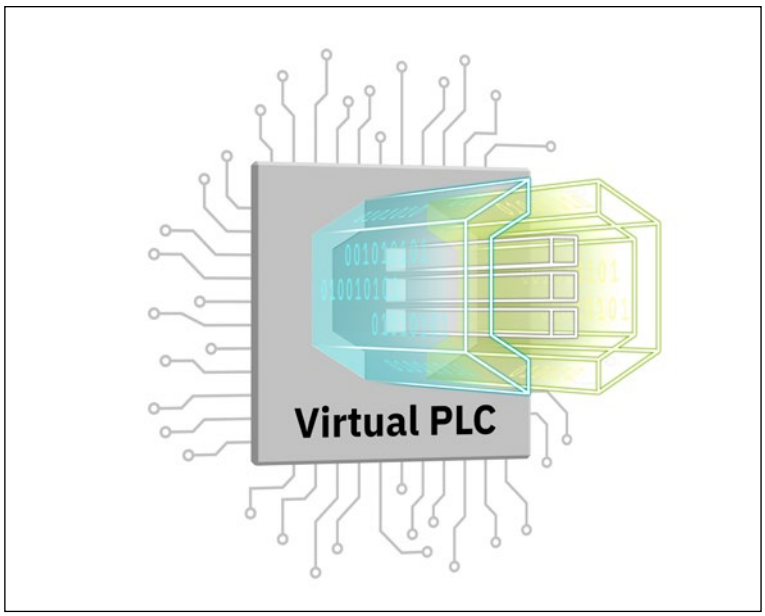
Direct connection to IT systems, the cloud, and IIoT platforms

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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

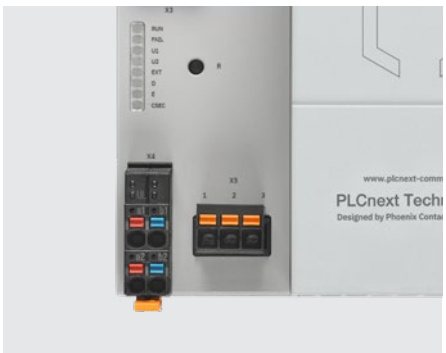
Gain more info:
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L'IMPULSION | Retrouvez nous sur www.limpulsion.fr





High reliability through the design in accordance with IEC 61850-3



Monitoring via integrated watchdog and live relay contact



Open, modular, and scalable with PLCnext Technology

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

PLCnext Control for simple tasks

Compact. Secure. 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

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

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 control system 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 the Cyber Resilience Act (CRA) requirements are met
- IoT and building protocols can be integrated seamlessly
- Simple replacement of the ILC 2050 BI (-L) for retrofitting

Gain more info:
Web code #3914

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

Controller for room automation

Large number of flexible I/O channels

The modular controller from the Catan product family in DIN rail-mount format can be used flexibly due to its multifunctional I/O channels. The various extension modules are networked via Single Pair Ethernet. The plug-in display provides support during commissioning and maintenance.



Main features

- Compact DIN rail-mount design
- I/O channels optimized for room automation
- Integrated 3-port Ethernet switch
- Connection of up to 16 I/O modules via SPE
- Ethernet, RS-485, and USB-based multi-protocol support
- Engineering via Emalytics and the Niagara framework

Your advantages

- Space and cost savings thanks to highly flexible I/O configurability
- Commissioning and maintenance supported by the plug-in display for local operation
- High-performance extension bus also enables distributed installation
- Interfaces for IoT applications
- Cradle-to-cradle sustainability label considered in the design

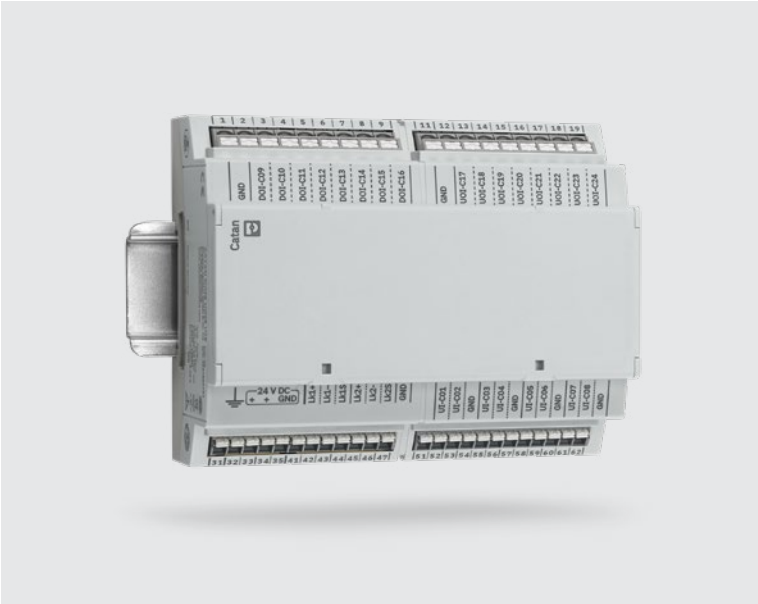
Gain more info:
Web code #3543

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

Digital I/O module

Input module for 48 V DC signals

The Axioline Smart Element is a digital input module for use in applications with 48 V DC signals. It can be operated in various networks by connecting to a PLCnext Control or bus coupler via a backplane.



Main features

- 8 digital inputs in accordance with EN 61131-2 type 1 and type 3 for 48 V DC inputs
- Nominal voltage: 48 V DC
- Nominal current: 2.4 mA
- Filter time: <1 ms
- Device rating plate stored

Your advantages

- Can be used in applications with 48 V DC signals
- Connection of sensors in floating two-conductor technology
- Compact device design saves space in the control cabinet
- Push-in connection technology for fast cabling

Gain more info:
Web code #3610

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

I/O modules with serial interface

Versions with extended functionality

These Axioline Smart Elements enable the operation of standard I/O devices with serial interfaces on a bus system. At the same time, transmission speeds of up to 230,400 bps are possible on the serial interface. The Modbus/RTU protocol is also supported, among others.



Main features

- One serial input and output channel
- RS-485 interface or RS-232 interface
- Number of data bits, stop bits, and parity can be set
- Various protocols supported
- Modbus/RTU client and server support
- 61 bytes of serial interface data can be transmitted per cycle

Your advantages

- Fast retrieval of data transmitted via the serial interface
- Targeted filtering out of Modbus/RTU telegrams via adjustable address filter
- Optimum adaptation to the response time of Modbus/RTU servers
- Significant space savings in the control cabinet with the modularly combinable I/O system

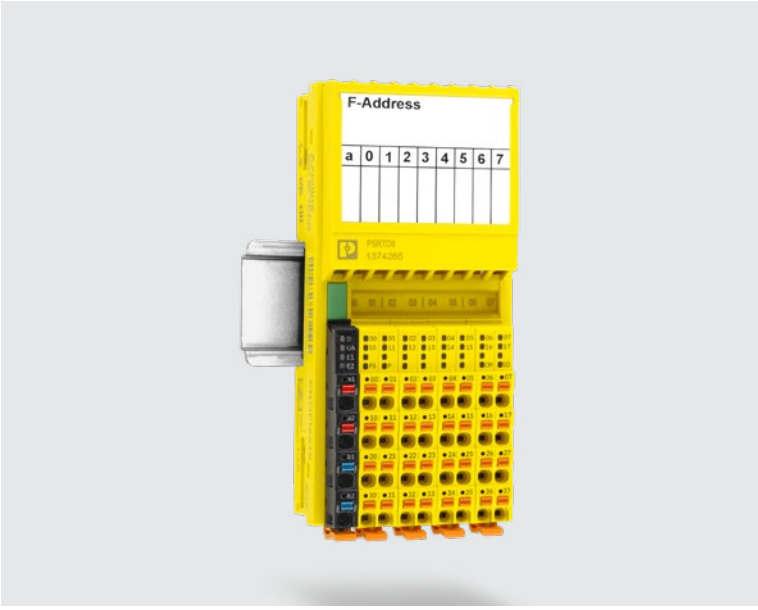
Gain more info:
Web code #3656

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

Analog safety I/O module

Safe temperature measurement

The new AXL F PSRTD8 1F Axioline F safety module provides safe analog inputs for recording resistance temperature detectors. Up to eight sensors can be connected. In addition, easy and flexible use is possible for a variety of sensor types.



Main features

- Safe RTD-based temperature measurement
- Eight analog temperature inputs
- 2-, 3-, or 4-conductor connection technology
- Measurements from 0 ohms ... 5,000 ohms
- PROFIsafe 2.6
- Up to Cat. 4/Pl e in accordance with EN ISO 13849-1
- Up to SIL 3 in accordance with IEC 61508

Your advantages

- Flexible use through the integration of different sensor types (Pt, Ni, and KTY)
- Higher system availability with integrated diagnostic technology
- Simplified use of data with the standardized display of measured values
- Quick installation via Push-in Technology
- Manufacturer-independent use due to PROFIsafe system

Gain more info:
Web code #3553

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

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 kΩ
- 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

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

Passive analog input modules

Direct connection of HART devices

The analog eight-channel HART input modules for the Axioline F remote I/O system are designed for connecting to four-conductor HART devices with a separate power supply. They are available in both intrinsically safe and non-intrinsically safe versions.



Main features

- Cyclic analog and HART data
- Acyclic HART data
- Intrinsically safe and non-intrinsically safe inputs
- Extended temperature range

Your advantages

- Simultaneous reception of analog and HART process data
- Easy diagnostics and configuration with DTM support
- Realization of hybrid process applications possible with intrinsically safe inputs

Gain more info:
Web code #3331

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

I/O module with two counter inputs

Acquisition of pulse sequences

This Axioline F counter module acquires and processes fast pulse sequences from sensors. The I/O module has two counter channels. You can operate the module in four modes: event counting, frequency measurement, time measurement, speed measurement.



Main features

- 2 counter inputs
- 32-bit counter (up and down)
- Maximum input frequency: 200 kHz
- Single or periodic counting

Your advantages

- Control of two outputs per channel depending on comparative values
- Flexible control of the counting process via hardware gate or software gate
- Short installation times with Push-in connection technology
- Robust mechanical design for various applications

Gain more info:
Web code #3545

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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 kΩ
- 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 due to an extended temperature range and systemic hot-swap capability

Gain more info:
Web code #3611

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

Passive analog hot-swap input modules

Direct connection of HART devices

The analog eight-channel HART input modules for the Axioline P remote I/O system with hot-swap capability are designed for connecting to four-conductor HART devices with a separate power supply. They are available in both intrinsically safe and non-intrinsically safe versions.



Main features

- Hot-swap-capable I/O modules
- Cyclic analog and HART data
- Acyclic HART data
- Intrinsically safe and non-intrinsically safe inputs
- Extended temperature range

Your advantages

- Simultaneous reception of analog and HART process data
- High system availability due to the Axioline P remote I/O system properties
- Realization of process applications possible with intrinsically safe inputs

Gain more info:
Web code #3330

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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

IO-Link

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

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

IO-Link I/O box for field installation

Connection of up to eight digital sensors

You can connect this Axioline E device 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, 5-pos.)
- Type B port
- IO-Link specification V1.1.3
- Connection of up to 16 inputs/outputs with M12 connectors (A-coded, 5-pos.)
- Diagnostic and status indicators
- Single-channel diagnostics
- Degree of protection: IP65, IP67, IP69

IO-Link

Your advantages

- 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 #3612

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

IO-Link I/O box for field installation

Connection of up to 16 digital sensors

You can connect this Axioline E device to an IO-Link master via an IO-Link A port. You can thus acquire and output digital signals via IO-Link. The IO-Link master allows use within different networks.



Main features

- Type A port
- IO-Link specification V1.1.3
- Connection of up to 16 inputs with M12 connectors
- Diagnostic and status indicators
- IP65/IP67/IP69 degree of protection

Your advantages

- 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 #3544

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

Compact panel PCs

Use of state-of-the-art processor technology

VL3 PPCS is an extension of the VL3 panel PC portfolio. They combine the look, feel, and mechanical properties of the xP 6000 HMIs with the technology of the VL3 UPC, compact box PCs with Intel x6000 processors, and industry-leading extension options.



Main features

- Long-term available Atom® processors of the x6000 series generation (Elkhart Lake)
- Six fixed and one configurable item
- Flexible extension options for the second COM port, wireless LAN, Ethernet extension, and 4G / LTE cellular connection
- Ready for Windows 11

Your advantages

- Modern hardware platform that is scalable in terms of performance and storage space
- Scalable, state-of-the-art Elkhart Lake processor technology to provide optimum system performance in a single compact package
- The same haptics and mechanical properties as the xP 6000 HMIs
- Best connectivity options to enable communication of different networks and I/O devices simultaneously

Gain more info:
Web code #3658

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

Intelligent light control

LoRaWAN-based street lighting

The LPWAN LCU D4I ZHAGA EU light control is part of the Smart Lighting solution from Phoenix Contact. The LoRaWAN®-capable control device manages and controls lights and LED drivers within the lighting infrastructure of thoroughfares, parks, and plazas.



Main features

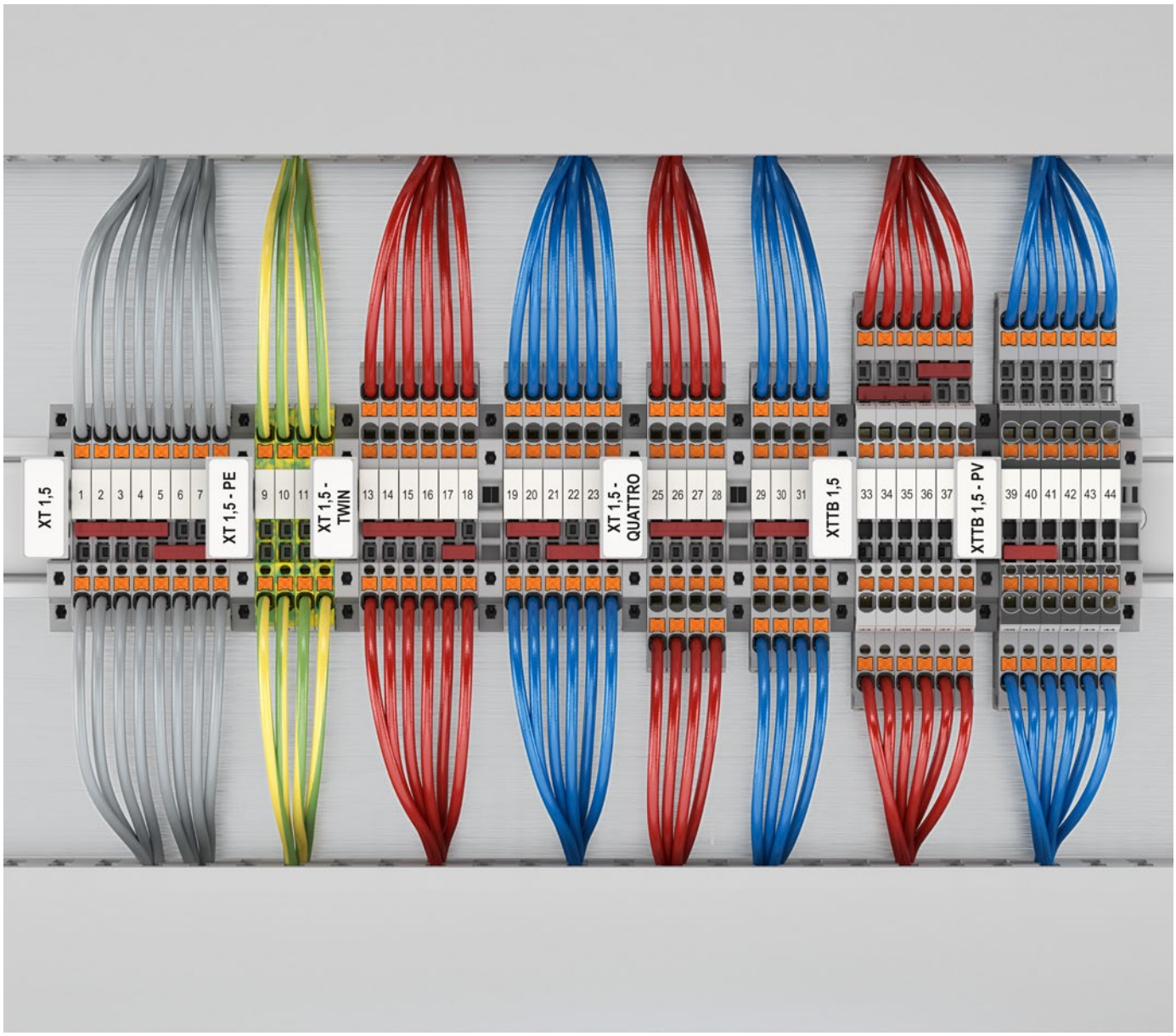
- DALI D4I interface for controlling modern LED drivers
- LoRaWAN®-capable
- Zhaga Book 18 base
- Use of the public ISM band (in Europe: 868 MHz)
- Bidirectional, encrypted communication to the light
- Range of up to several kilometers

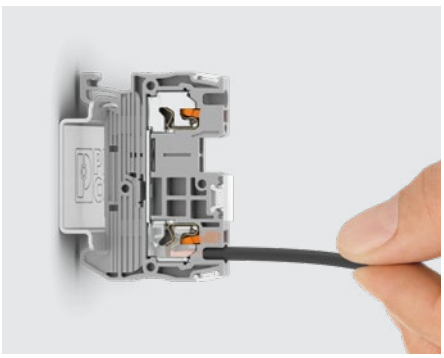
Your advantages

- Improved energy efficiency with demand-oriented lighting
- Keep an eye on lighting points at all times with remote parameterization and diagnostics
- Intelligent light management via the grovez.io IoT platform
- Future-proof Smart Lighting solution – based on open interfaces and IoT systems
- Simple retrofitting of existing lighting infrastructure by extending the control technology

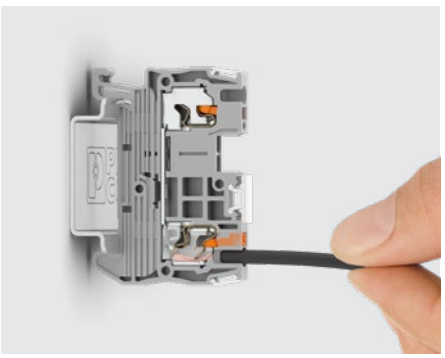
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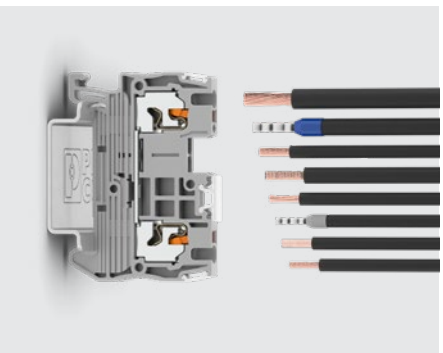




One-handed wiring with the pre-tensioned contact chamber



Clear identification of the conductor connection



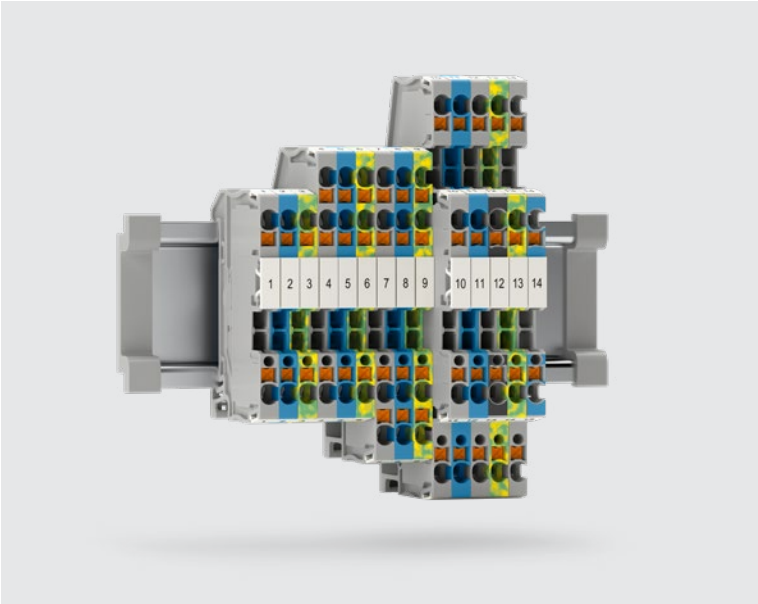
Wiring of all conductor types between 0.34 mm² and 2.5 mm²

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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

- Feather-light plugging and 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

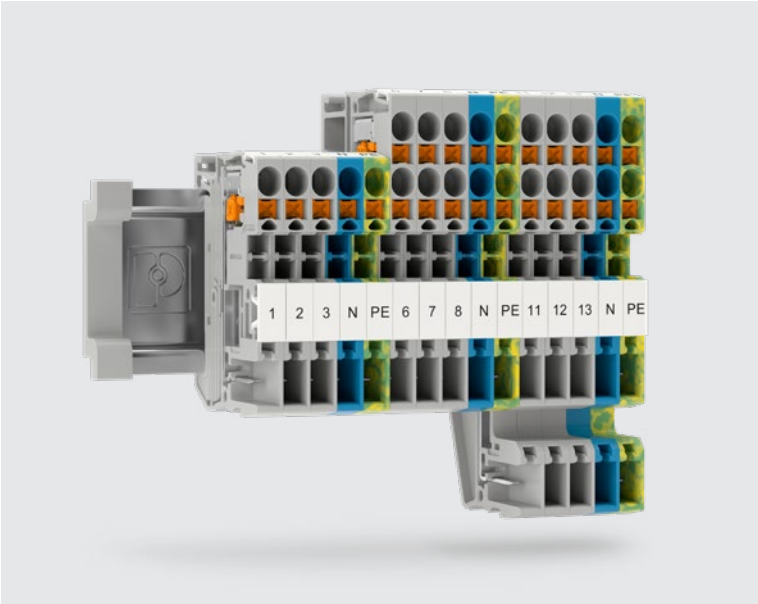
Gain more info:
Web code #3091

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

Plug-in terminal blocks with Push-X

Easy connection with COMBI and Push-X

The plug-in terminal blocks with COMBI plug-in zone and Push-X connection revolutionize 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

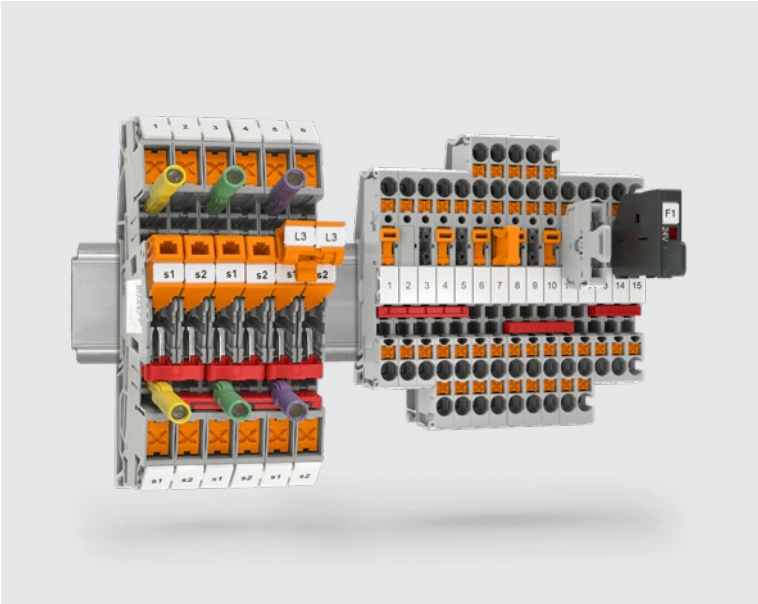
Gain more info:
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L'IMPULSION Retrouvez nous sur www.limpulsion.fr

Function terminals with Push-X technology

Disconnect signals quickly and safely

The Push-X function terminals also allow the tool-free wiring of flexible conductors. In addition, the integrated disconnect zones enable signals to be disconnected easily. The TG basic disconnect terminal blocks also offer the option of safely integrating function plugs.



Main features

- Push-X technology
- Test-disconnect terminal blocks: 6 mm²
- Nominal current: 30 A
- Nominal voltage: 500 V
- Disconnect and knife-disconnect terminal blocks: 2.5 mm²
- Nominal current: 24 A
- Nominal voltage: 500 V

Push-X Technology
Designed by Phoenix Contact

Your advantages

- Highly convenient operation with the new tool-free Push-X technology
- Quick installation of all types of conductors with and without ferrule
- “Make before break” automatic leading current transformer short circuit for the test-disconnect terminal blocks
- Easy disconnection of signals and integration of various function plugs
- Significant cost savings with the uniform accessories of the CLIPLINE complete system

Gain more info:
Web code #3091

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

M12 distributor boxes with push-pull fast locking

The new standard in automation technology

The new M12 push-pull distributor boxes feature a consistent, tool-free, and intuitive installation. Master cables and M12 connectors are connected conveniently and securely by direct connection. This ensures significant time savings and safe cabling.



Main features

- Plug-in connector hood
- Master cable connection with Push-in Technology
- Push-pull fast locking in accordance with IEC 61076-2-010
- A-coded, 4 and 5-pos. versions, unshielded
- Connection cross-section: 0.14 mm² ... 1.5 mm²
- Degree of protection: IP65, IP67
- Temperature range: -25°C ... 80°C

Your advantages

- Time-saving, tool-free mounting with plug-in connector hood with snap-in locking
- Easy connection of the master cable with Push-in Technology
- Fast, secure installation of connectors with push-pull fast locking
- More flexibility with M12 ports for classic screw connectors and push-pull connectors
- Clear assignment with marking labels on the cover and header

Gain more info:
Web code #3652

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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. The A-coded, eight-position, preassembled signal cables extend the product range.



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

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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 in a small installation space.



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

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

M8 and M12 device connectors for SMT

Unrivaled 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

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

M12 device connectors for soldering processes

Future-proof in your application

The lead-free M12 connectors for wave soldering processes are RoHS II compliant without Exemption 6c. Due to their universal backward compatibility, you can smoothly integrate the connectors into your existing PCB layout.



Main features

- Voltages up to 250 V
- Currents up to 4 A
- Available in A, B, and D codings
- 4 and 5-pos.
- Straight or angled design

Your advantages

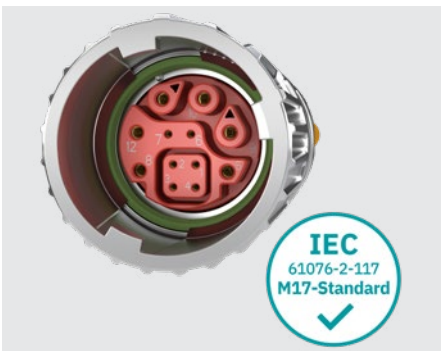
- Standard pin assignments and codings for signal and data transmission with a uniform design-in design
- Easy PCB mounting: two-piece connectors for wave soldering
- Secure assembly: locking clips for fixing onto the PCB
- Sustainable and future-proof: lead-free in accordance with RoHS II without Exemption 6c
- Worldwide availability through global distribution channels

Gain more info:
Web code #3565

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Pin assignments based on the IEC 61076-2-117 standard



Compact devices, with a space-saving 3-in-1 solution



Time savings with fast and easy installation

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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

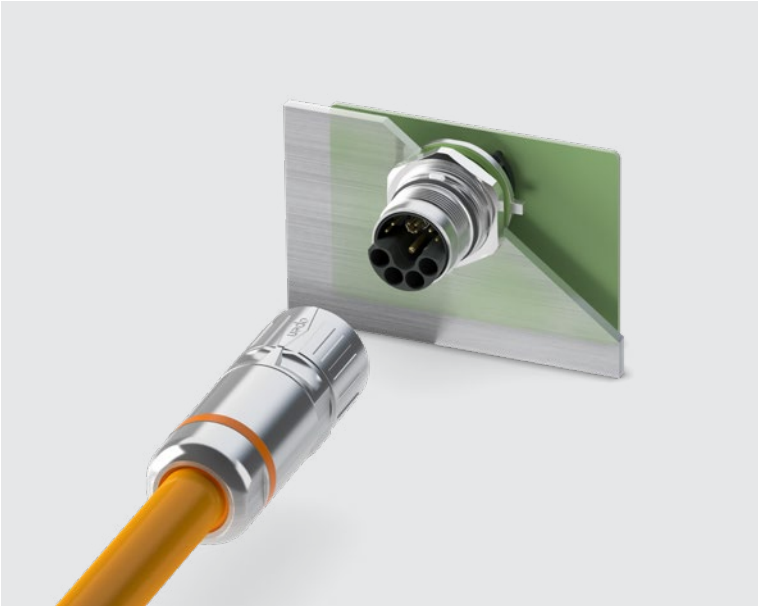
Gain more info:
Web code #3898

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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

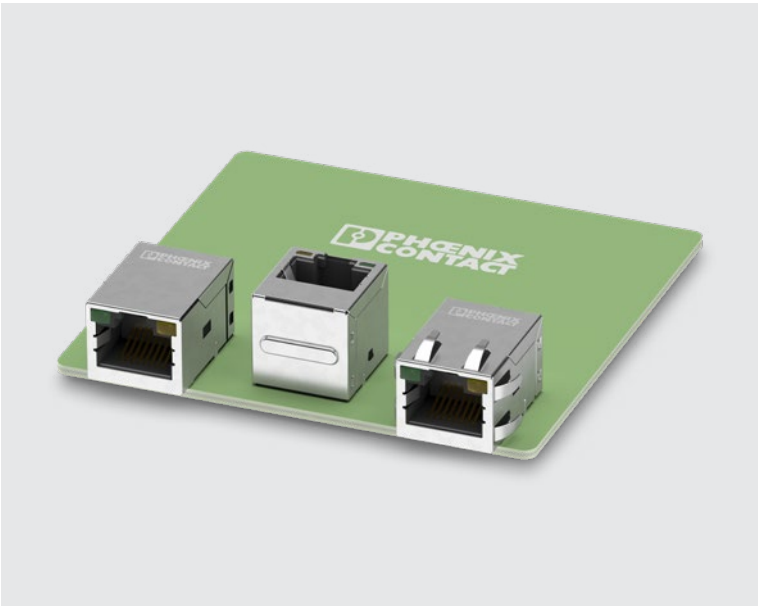
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Web code #3907

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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

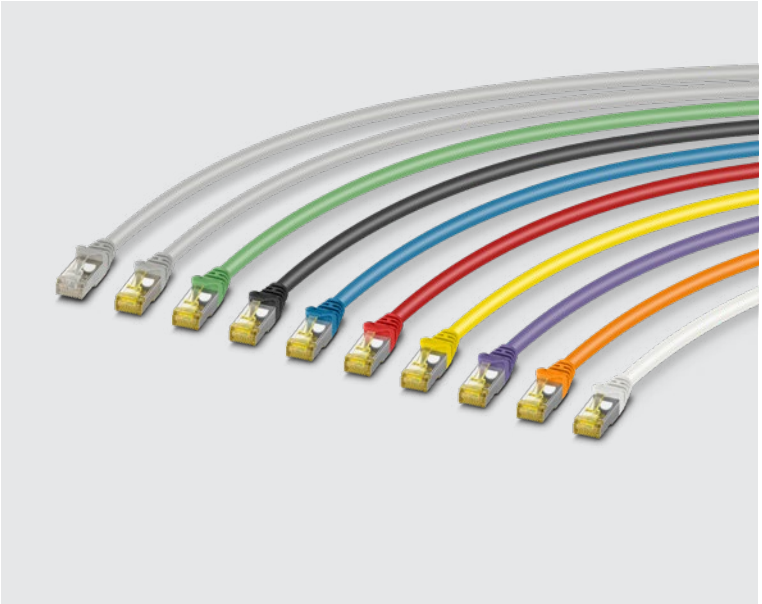
Gain more info:
Web code #3710

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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

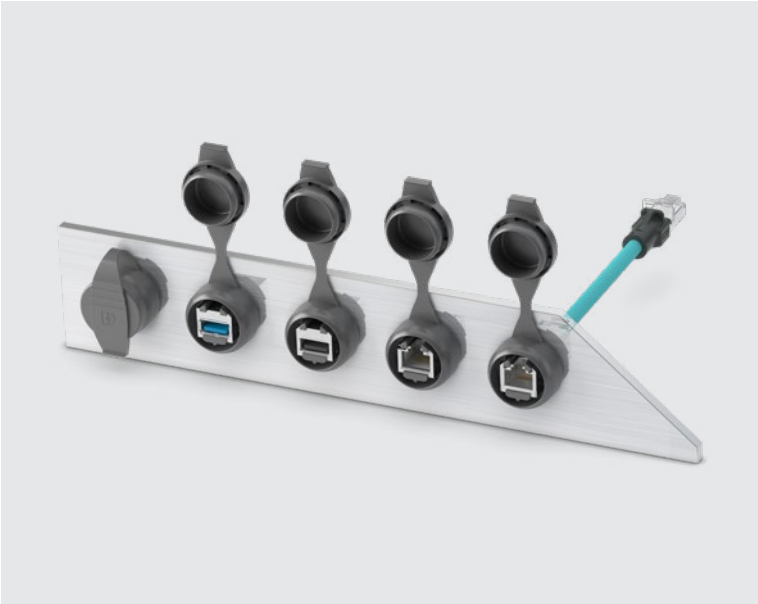
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Web code #3772

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

S15 power circular connectors

Powerful and compact

Size 15 circular connectors offer a compact and reliable power connection for asynchronous and three-phase motors up to 7.5 kW. The bayonet fast-locking system enables tool-free, time-saving installation. This prevents connection errors.



Main features

- Unshielded size 15 circular connectors
- Hybrid pin connector pattern: 3 power contacts up to 16 A, 2 signal contacts up to 10 A, PE
- Bayonet fast-locking system
- Conductor structure: 6 x 2.5 mm²
- PUR halogen-free cable
- Degree of protection: IP65, IP67
- Standardized in accordance with IEC 61076-2-116

Your advantages

- Save time through easy, tool-free installation with bayonet fast-locking system
- Significant space savings with power and signal contacts in a hybrid pin connector pattern
- Robust in harsh industrial environments due to bend and vibration protection
- UL approval and IEC standardization for worldwide use

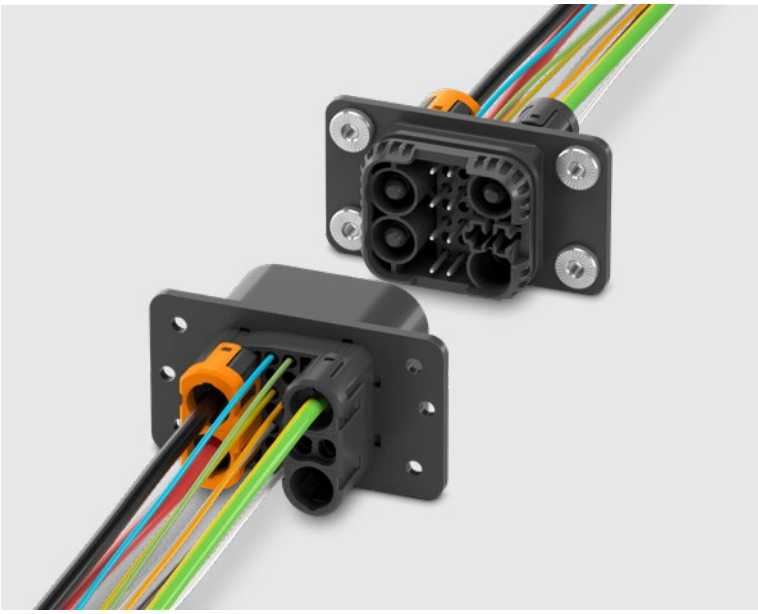
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Hybrid connectors for energy storage systems

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

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

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

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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

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QPD STAS 3 installation connectors

Easy blind and awning connection

The QPD STAK/STAS 3 installation connectors designed for assembly are specifically intended for the motor connection of blinds, window coverings, and awnings. The IDC connection enables installation in no time – without stripping or screwing.



Main features

- QUICKON fast-connection technology (IDC)
- 4-pos. (3-pos. + PE)
- Voltage: 400 V
- Current: 16 A
- Degree of protection: IP54
- Temperature range: -40°C … +100°C

Your advantages

- Time savings of up to 80% for on-site connection
- Quick and easy assembly without special tools
- Highly reliable with robust and vibration-proof housings

Gain more info:
Web code #3535

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Distributors for electrical installations

Distribute power easily and tool-free

IPD distribution boards enable simple and safe power distribution in buildings or infrastructure facilities. Reliable and tool-free installation of 3- and 5-pos. connectors with conductor cross-sections up to 2.5 mm² is ensured by simply plugging them in.



Main features

- H and Y distributors
- 3- and 5-pos. versions
- Bayonet fast-locking system
- Voltage: 500 V
- Currents up to 20 A
- Connector for conductor cross-section: 0.5 mm² ... 2.5 mm²
- Degree of protection: IP66, IP68, IP69K

Your advantages

- Significant time savings through tool-free and plug-in connection
- Bayonet fast-locking system ensures easy mounting, even in particularly difficult installation situations
- Mechanical coding to prevent mismatching and ensure safe installation
- Reliable use outdoors and in wet areas due to the high degree of protection

Gain more info:
Web code #3536

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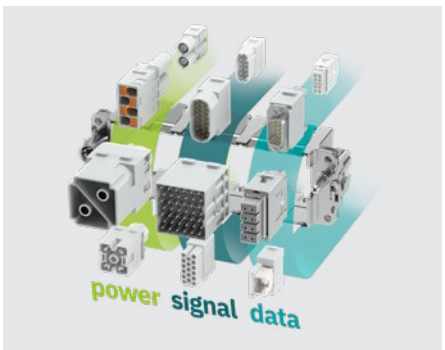




Tool-free mounting with click-in latching



Fast conductor connection with Push-in – even with PE contact



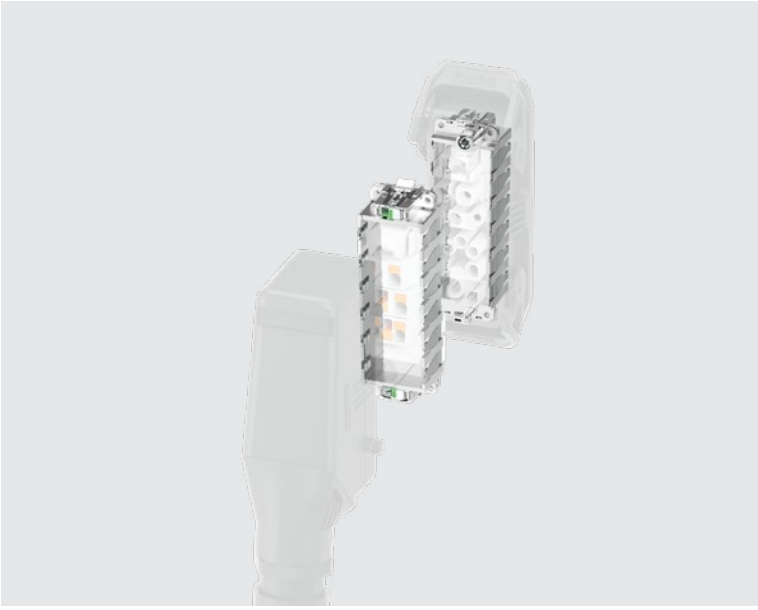
Individual combination of different modules

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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 through to the frame and the 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

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Contact insert modules with function

Bridge, disconnect, and safeguard in the field

Modular contact inserts with a function slot and disconnect zone for HEAVYCON heavy-duty connectors offer a high degree of flexibility. Bring the function from the control cabinet to the field and realize potential bridging and power protection directly in the application.



Main features

- Multifunctional disconnect zone
- Double function slot
- Push-in connection technology
- 5-pos.
- 400 V, 16 A
- 0.14 mm² ... 2.5 mm²
- Suitable for all HEAVYCON module carrier frames
- Shock- and vibration-resistant in accordance with DIN EN 61373

Your advantages

- Save space and reduce cabling with decentral structures
- Easy power forwarding and string protection directly in the field
- Greater flexibility: the disconnect zone for fuse plugs, component connectors, and isolating plugs
- Fast, tool-free conductor connection with Push-in Technology
- Customized interface achieved by combining various transmission media in one connector

Gain more info:
Web code #3664

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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

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

Contact inserts for heavy-duty connectors

Reliable testing of current transformers

The fixed-position and modular HEAVYCON TSC contact inserts are designed for measuring and testing tasks in the field of protection technology for medium-voltage switchgear. They are attached directly to the control cabinet as a short-term or long-term connection with high IP protection.



Main features

- Fixed-position versions with screw connection technology
- Modular versions with Push-in connection technology
- Can be used in plastic and metal housing
- Leading, automatic transformer short circuit

Your advantages

- Reliable long-term current transformer testing with robust connector housing
- Easy tool-free conductor connection with Push-in Technology
- Maximum safety with leading and automatic transformer short circuit
- Space savings achieved by combining various transmission media in the same connector
- Safe use for high IP requirements with IP66, IP67, and IP69 degree of protection

Gain more info:
Web code #3530

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

Contact inserts for heavy-duty connectors

Powerful data transmission

The new HEAVYCON contact insert modules offer you more options for reliable high-speed data transmission. USB interfaces are integrated directly into the connector using a patch cable. Powerful Mbit and Gigabit modules support a wide range of cables.



Main features

- Large cover for different USB patch cables
- Mbit module can be used with 4- or 8-pos. cables in 0.14 mm² ... 1.5 mm² format
- Shielding insulated or to PE potential
- Suitable for all module carrier frames
- Shock- and vibration-resistant in accordance with DIN EN 61373

Your advantages

- Easy mounting with the innovative snap-in module carrier frame
- Optimum tolerance compensation with spring-loaded USB interfaces
- Gigabit modules transmit data quickly and reliably for high-speed applications
- Customized, compact interface achieved by combining various transmission media in the same housing
- Modules and frames are compatible with the market standard

Gain more info:
Web code #3534

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HEAVYCON Data Center connectors

Powerful, compact, energy-efficient

HEAVYCON industrial connectors for data centers optimize power distribution from the PDU to the IT rack. The compact heavy-duty connectors provide robust power transmission up to 70 A. Lower contact resistance reduces energy consumption and heat generation.



Main features

- Rated current / voltage: 70 A / 690 V
- Number of positions: 4 + PE
- Conductor cross-section:
  6 mm² ... 25 mm² / 10 AWG ... 4 AWG
- Crimp connection
- Mounting with click-in latching
- M32 or M50 cable gland integrated, with or without strain relief
- Degree of protection: IP66

Your advantages

- Space-saving cabling with a more compact design
- Short installation time with easy, tool-free installation with click-in latching
- Reduce part costs with fixed-position contact inserts
- Optimum power transmission and energy savings of up to 60% due to the lower contact resistance of the crimp contacts
- Reduced cooling requirements due to lower heat generation

Gain more info:
Web code #3823

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Panel-mount bases with screw-in thread

Easy, time-saving mounting

HEAVYCON D7 panel-mount bases with screw-in thread save significant amounts of time during mounting work. They are secured conveniently in round panel cutouts using an M25 or M32 counter nut or screwed into motors and devices with the corresponding thread.



Main features

- Die-cast aluminum and plastic housing
- Plug-in interface
- For M25 or M32 panel cutouts
- Size D7
- Angled and straight versions
- Degree of protection IP66, IP67
- Temperature range: -40°C ... +125°C
- Shock- and vibration-resistant in accordance with DIN EN 61373

Your advantages

- Significant time savings with easy and convenient mounting in a round panel cutout
- The plug-in alternative to the existing cable gland offers greater flexibility in terms of cabling and maintenance
- Space-saving cabling in confined spaces with the compact design
- Optimum IP and EMC protection ensure reliable and safe operation of your system

Gain more info:
Web code #3665

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

Plug-in conductor connectors

Easy wiring in the control cabinet

HEAVYCON CME plug-in conductor connectors offer greater efficiency in control cabinet wiring. You can use the conductor connector to wire up to 108 conductors directly during terminal strip production. You can connect the cable harnesses in the control cabinet by simply plugging them in.



Main features

- Number of positions: 23+PE, 41+PE, 71+PE, 107+PE
- 250 V, 10 A
- 0.14 mm² ... 2.5 mm²
- Crimp connection
- Protected connection with locking element
- Safe contact routing with funnel pad

Your advantages

- Significant time and cost savings, as the terminal strips are wired directly to the plug-in connection during production
- Fast replacement of terminal strips with easy-release conductor connectors
- Avoidance of accidental connection release with the locking element
- Avoidance of contact errors, even when plugging at an angle with reliable centering of the contacts through funnel pads

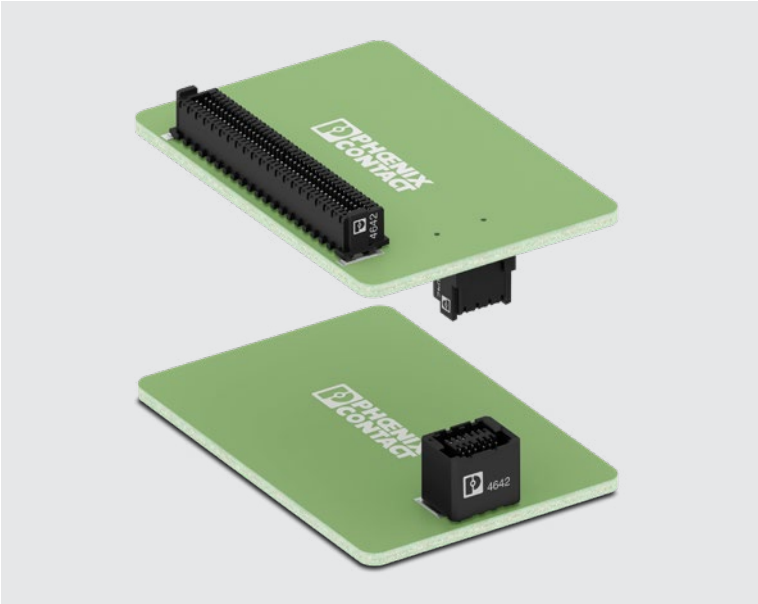
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Unshielded board-to-board connectors with 0.8 mm pitch

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

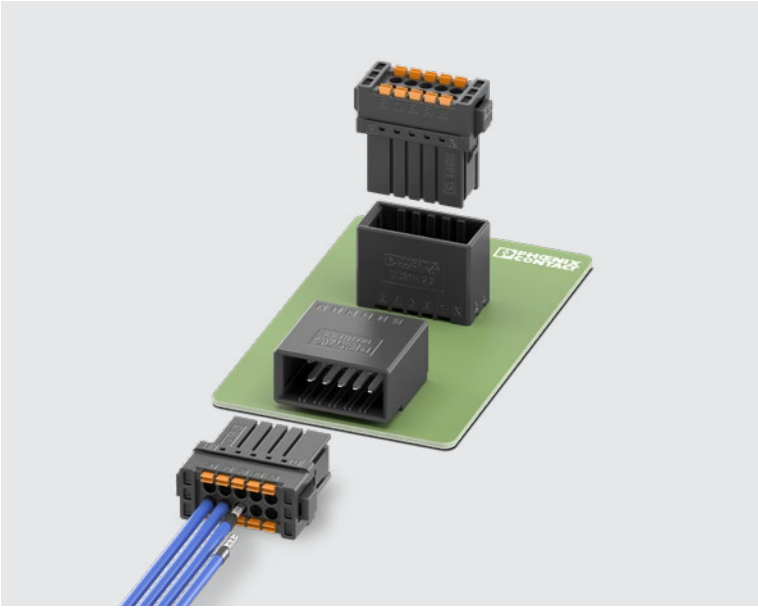
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L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

Wire-to-board connectors with Push-in Technology

Perfectly optimized for tool-free installation

The DD31PS series CONNEXIS PCB connectors with Push-in connection technology simplify and accelerate wiring in the field and in the factory. Different pitches and designs allow for various applications in robotics, elevator technology, and battery management.



Main features

- Conductor cross-sections up to 1.5 mm²
- Currents up to 8 A
- Voltages up to 160 V
- Pitch: 3.81 mm
- Push-in connection technology
- Halogen-free plastic

Your advantages

- Quick, tool-free installation in the field with Push-in connection technology
- Error-free connection due to versions with mechanical keying
- Effortless compatibility during the last steps in the field with the pin connector pattern in the established market standard
- Quick and safe mounting due to custom number, letter, and symbol printing
- Design-in support during device development through M-CAD/E-CAD data and a free sample service

Play video

Order sample

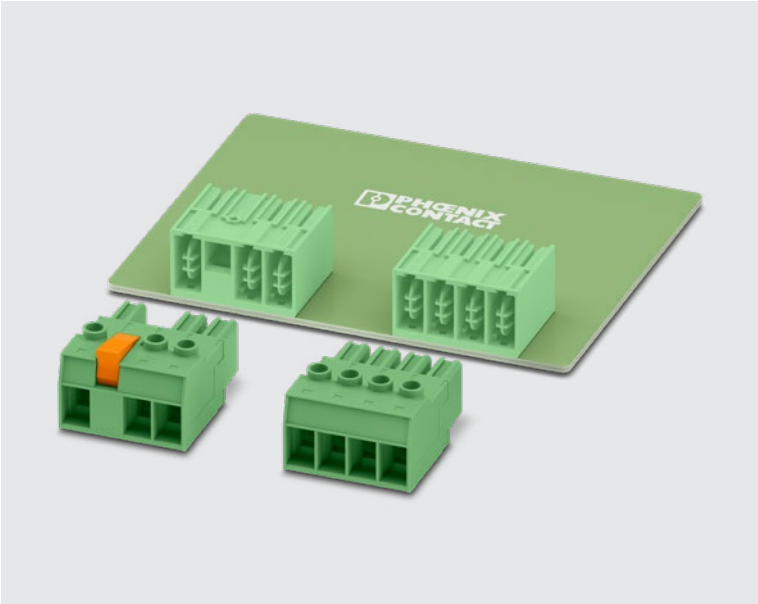
Gain more info:
Web code #3229

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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 ≥40°C.



Main features

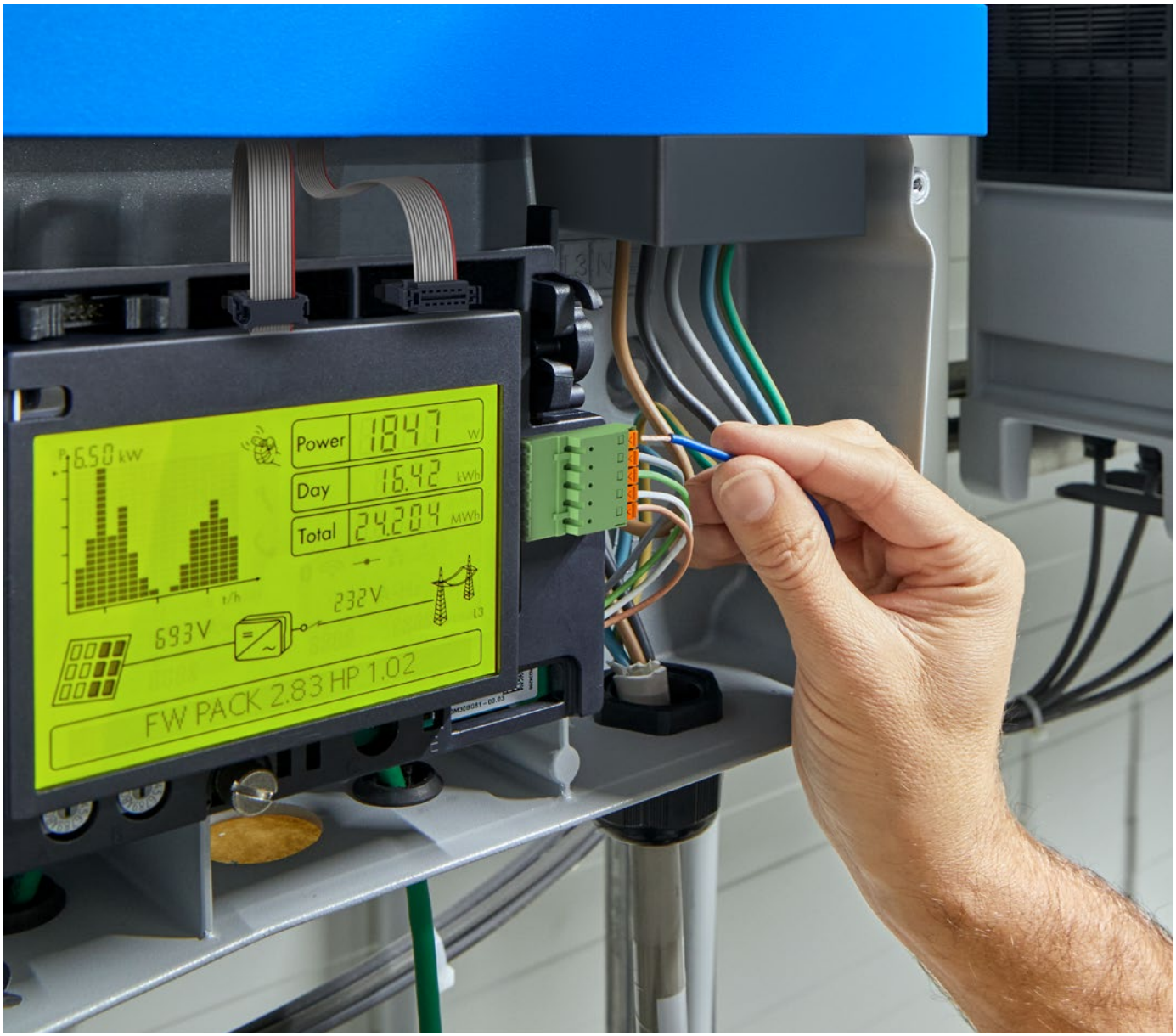
- Pitch: 10.16 mm
- Currents up to 76 A in ambient temperatures of ≥40°C
- Voltages up to 1,000 V
- 2- to 6-pos.
- With center flange as an option
- Enhanced touch protection in accordance with IEC / UL 61800-5-1

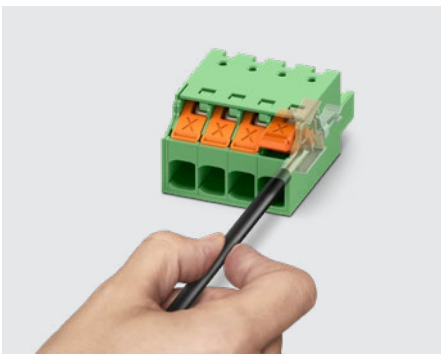
Your advantages

- 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

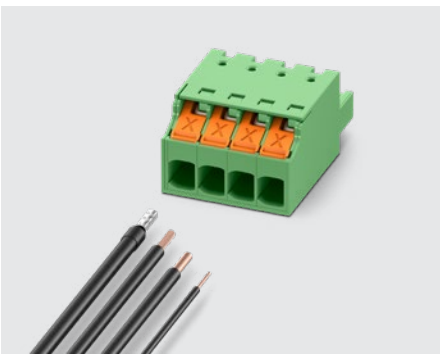
Gain more info:
Web code #3685

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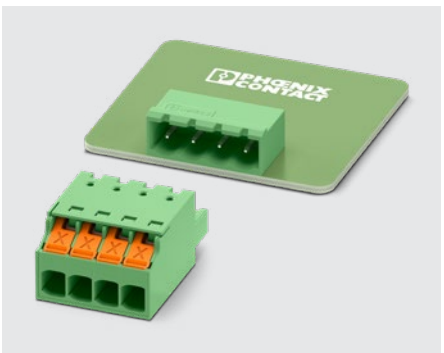




Highly convenient operation thanks to effortless and tool-free conductor connection



Quick installation of all types of conductors with and without ferrule



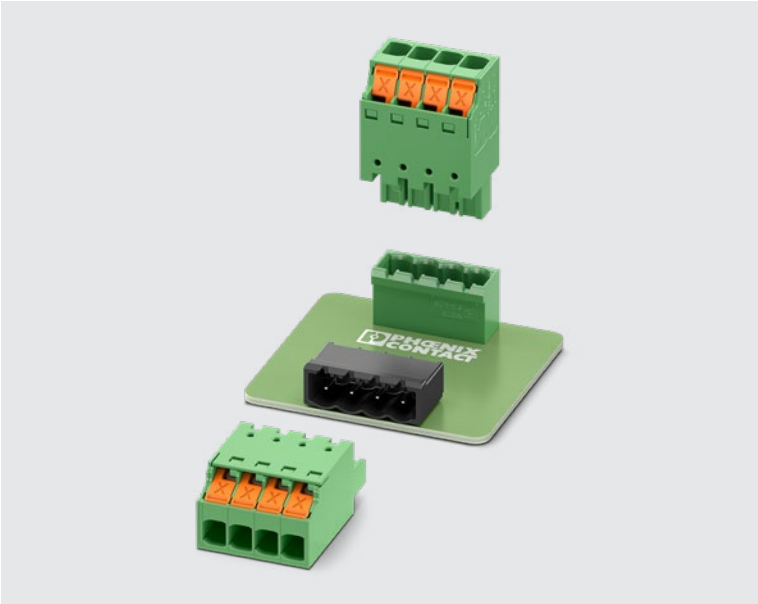
Compatibility with existing COMBICON portfolio connectors

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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

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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

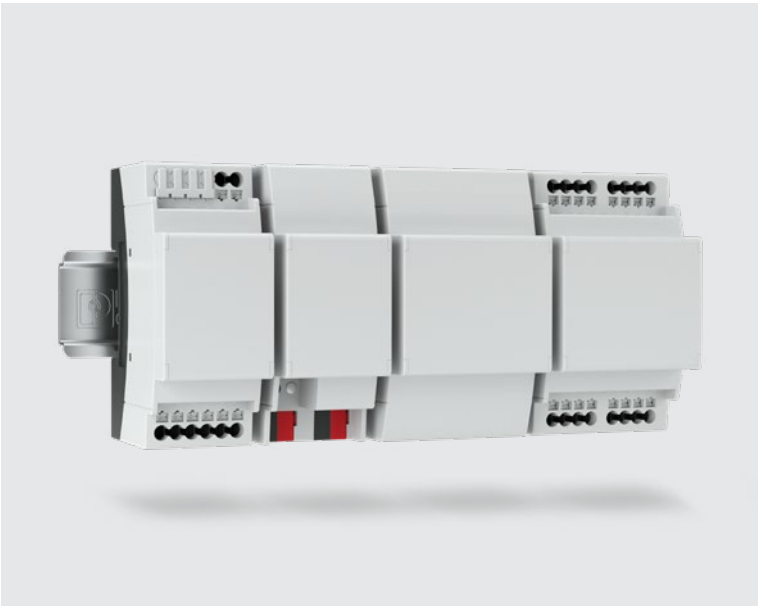
Gain more info:
Web code #3776

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

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

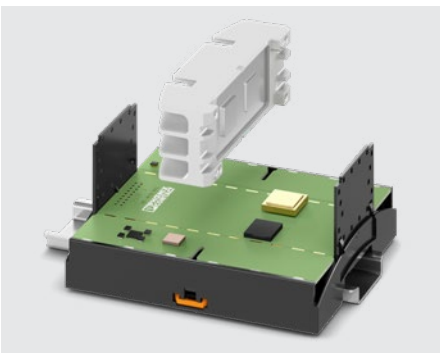
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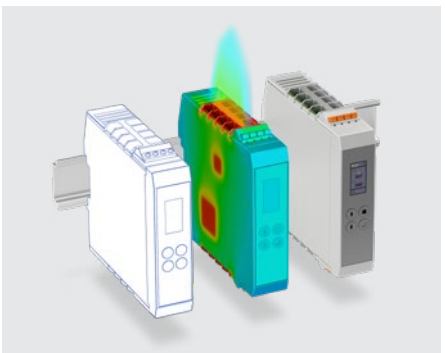




Hybrid systems made from aluminum heatsinks and plastic housings



Passive cooling solutions – optimized for individual requirements



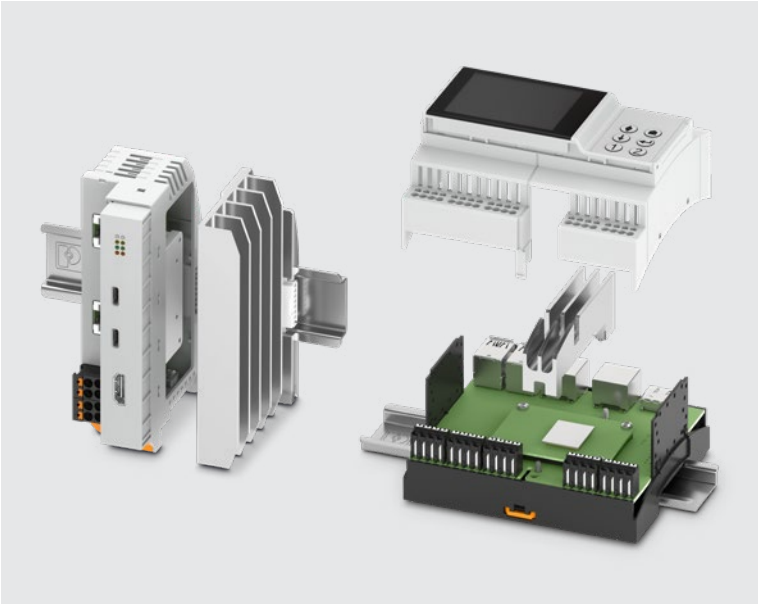
Personal advice throughout the entire development process

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

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-pos. 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

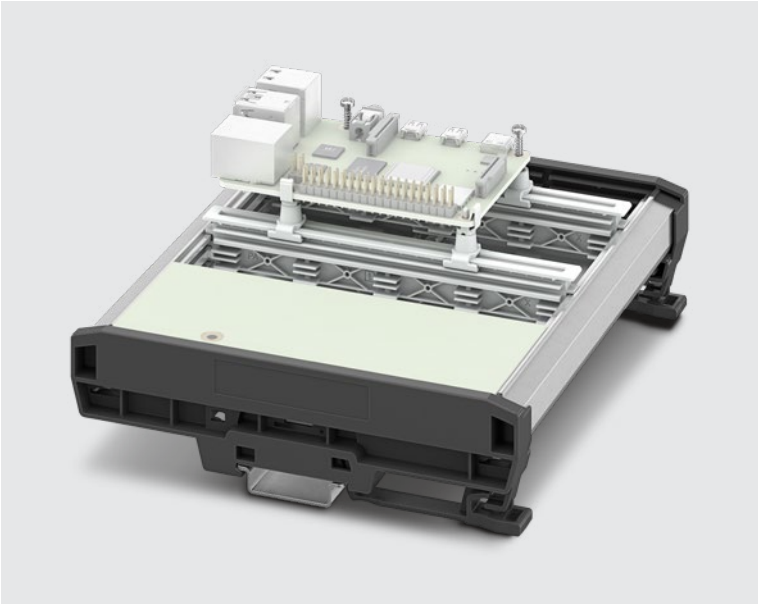
Gain more info:
Web code #3718

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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

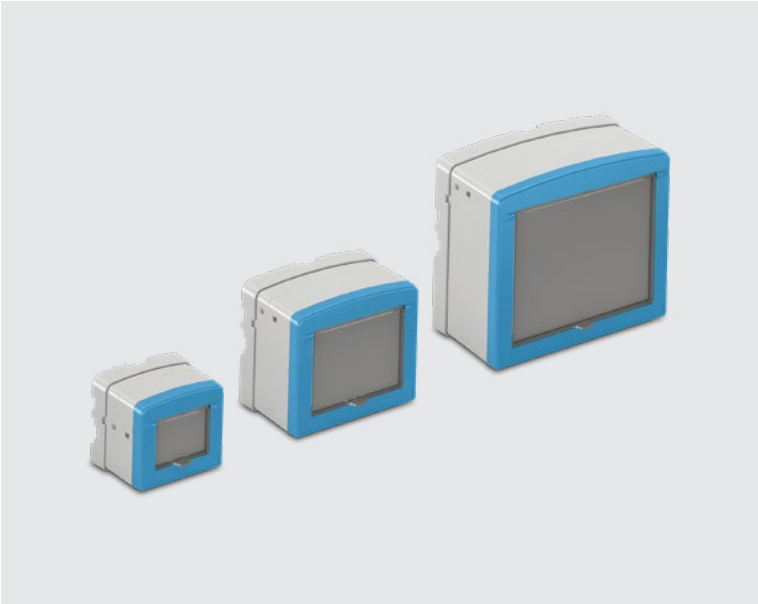
Gain more info:
Web code #3717

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

Monitoring Case System (MCS)

For sensor and IoT/IIoT applications

Phoenix Contact offers a well-designed housing for diverse electronics with its new MCS series. It is sure to impress at all stages, from installation of the PCB and simple mounting to maintenance of the device. Modular in design, the housing offers exceptional practicality.



Main features

- 3 sizes each in 2 versions: IP40 and IP65/IP67 (additionally with seal and pressure equalization element)
- Temperature range: -40°C ... +85°C
- Impact resistance: IK07
- Material: PA with GF (UL94 V0)
- Colors: light gray (RAL 7035), covers also available in yellow (RAL 1018), blue (RAL 5015), and black (RAL 9005)

Your advantages

- Convenient operation during device installation and maintenance thanks to optional hinges
- Flexible mounting thanks to the optional adapter plate
- Safe operation with the right degree of protection
- Individualized product selection due to the modular system
- Optimized PCB installation: installation of the PCB in a nearly horizontal orientation is possible due to the angled housing edge

Play video

Order sample

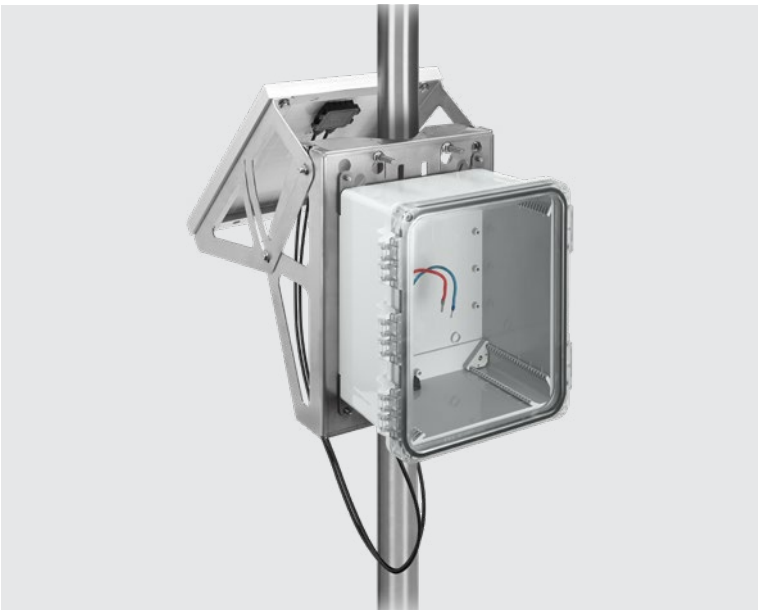
Gain more info:
Web code #3462

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

POS series PV system solution

For energy self-sufficient systems

The Pico Off-Grid System (POS) is a PV panel-based, robust solution with multiple performance classes up to 190 Wp. The solution includes a housing, pole bracket, and solar panel. Computers, communication units, batteries, and more can be added to create self-sufficient solutions for field use.



Main features

- Temperature range for the overall system: -40°C ... +85°C
- 5 OCS housing sizes compatible with this system, wiring ready for connection
- Solar panel: solar panels with 36 / 45 high-performance solar cells, monocrystalline cell technology
- Pole bracket: adjustable tilt angle of the PV panel

Your advantages

- Internationally certified housing system
- Different housing sizes can be combined with one holder
- Simple one-person mounting of the entire system
- Complete system except own electronics
- Simple supply chain

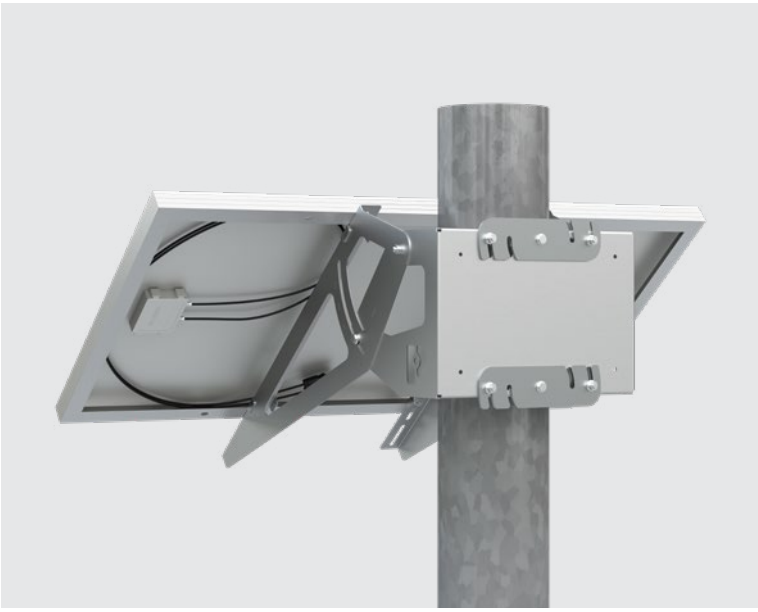
Gain more info:
Web code #3383

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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 mounting 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

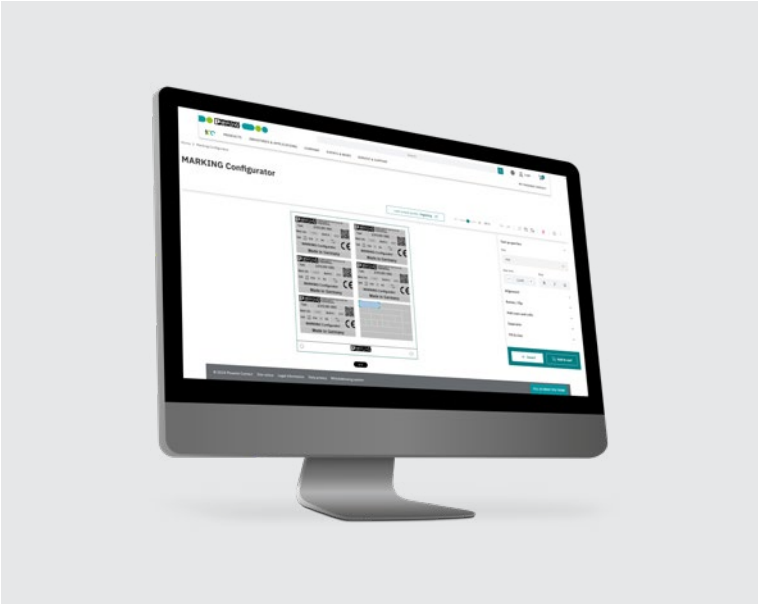
Gain more info:
Web code #3775

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Tailored marking solutions

Configure and order direct online

The MARKING Configurator features a particularly high degree of user-friendliness and flexibility when it comes to the individual marking of marking materials. The ordering process is designed to be simple, transparent, and completely digitalized – starting from a batch size of one.



Main features

- Online-based configurator for the tailored creation of marking solutions
- End-to-end digitalized and transparent ordering process
- More than 2,000 standard materials are available with tailored marking
- Project overview for simplified reordering

Your advantages

- Standard materials can be ordered individually and ready for marking
- Intuitive and efficient editing functions with the context-sensitive menu structure
- Error avoidance by displaying a digital image of the individual marking
- Convenient saving of the project for easy reordering via “My Solutions”

Play video

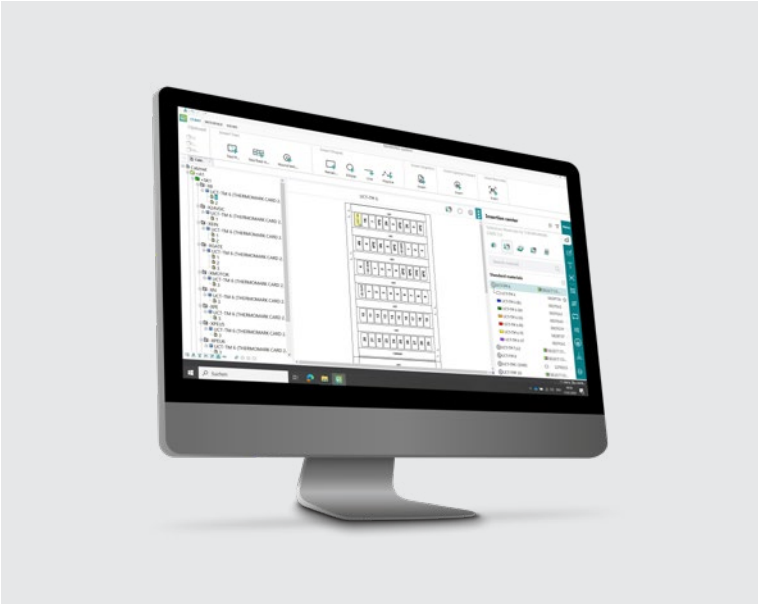
Gain more info:
Web code #3514

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

High-performance marking software

Efficient creation of marking solutions

The MARKING system software features powerful functions for the easy and standard-compliant design of application-specific marking solutions, high-performance interfaces for the efficient import of data from ECAD systems, and common data exchange formats.



Main features

- One software program for all marking systems from Phoenix Contact
- Direct interfaces to common ECAD systems
- Comprehensive data import manager
- Efficient wire marking with the Wire Marking Application Center
- Template Designer with comprehensive design options

Your advantages

- Efficient creation of marking projects with a clear user interface and extensive design options
- High-performance interfaces for the efficient import of data from ECAD systems and common data exchange formats
- Optimum management of the entire marking process with structured projects in accordance with IEC 81346
- Central control and management of all marking systems

Gain more info:
Web code #3558

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Highly efficient with automated material processing



High-quality marked and resistant markers



Low maintenance due to the simple cartridge replacement

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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

L'IMPULSION | Retrouvez nous sur www.limpulsion.fr

Mobile thermal transfer card printer

Flexible and direct marking on site

The THERMOMARK PRIME 2.0 prints marking materials in card format. Thanks to the integrated MARKING system app, 7" color touch display, and replaceable battery, the printer can be operated intuitively and is suitable for stationary and mobile use directly on site.



Main features

- MARKING system app integrated marking software
- Replaceable battery for mobile use
- Ink ribbon, magazine, and material detection
- For all UCT, US, and UM card materials
- 7" color touch display
- Low-maintenance thermal transfer printing technology
- Print resolution of 300 dpi

Your advantages

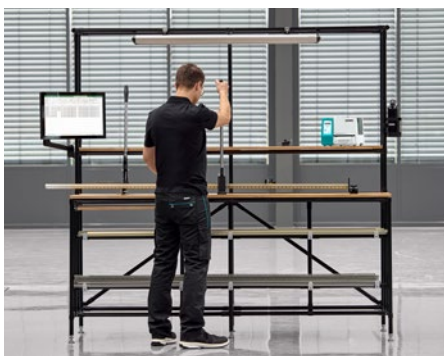
- Easy design of marking solutions with the MARKING system app integrated marking software
- Fully independent with replaceable and rechargeable battery
- Fast and high-quality printing of all card materials in under 8 s
- Automatic ink ribbon, magazine, and material detection prevents printing errors
- Material and ink ribbon can be changed easily in less than 10 s

Gain more info:
Web code #3557

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Tailored equipment with the modular system and accessories



Ergonomic design and efficient material provision



Easy to set up, customized workstation solutions

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

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

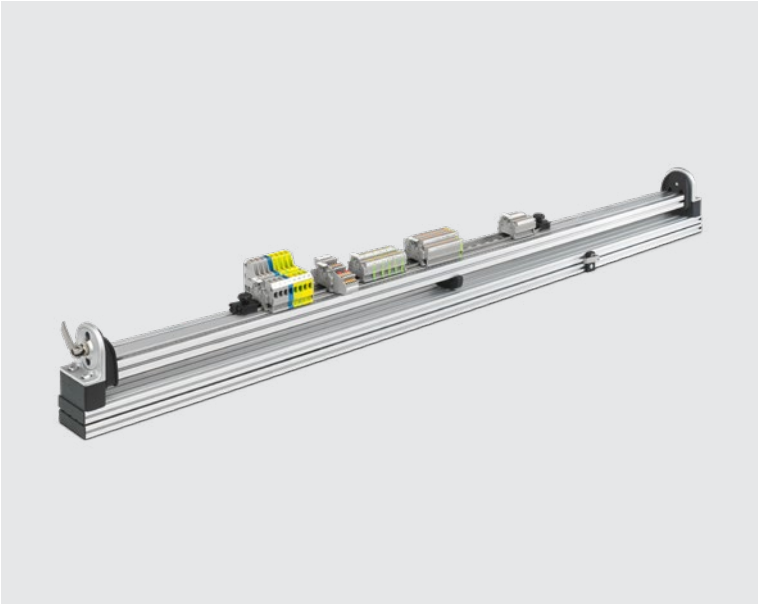
Gain more info:
Web code #3771

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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

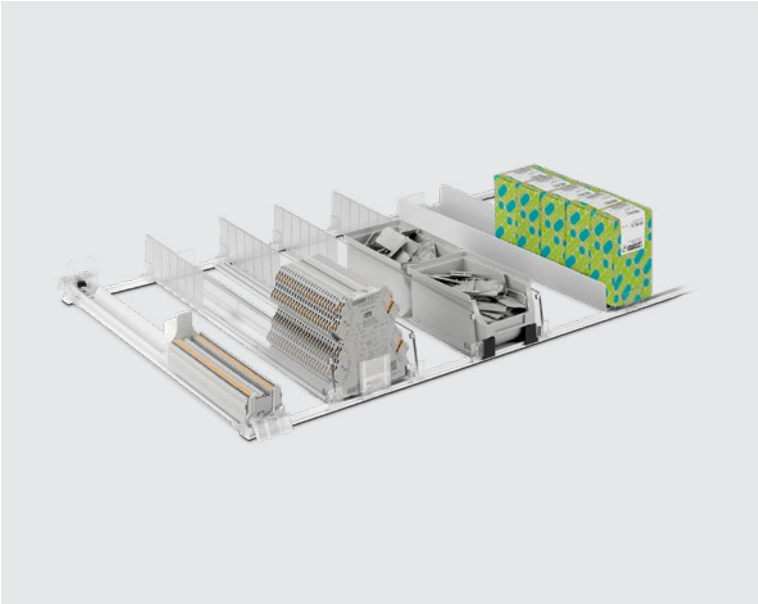
Gain more info:
Web code #3929

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Modular magazine system

For efficient material provision

Optimize your assembly process in control cabinet building with the modular magazine system for the efficient and mounting-oriented provision of components. Different magazine types enable different components and materials to be provided quickly and flexibly.



Main features

- Feed magazines for DIN-rail-mountable components (e.g., terminal blocks) and for marking materials
- Universal feed magazine for various applications
- Bulk goods magazine for small parts
- Flexible arrangement of shelf dividers
- Different mounting profiles for sticking on

Your advantages

- Tailored material provision as required and useful with the modular system
- Targeted retrieval of required components and quantity through selective provision
- Improved ergonomics with parts and components arranged suitably for assembly
- Reduced search times during mounting through efficient provision
- Fewer errors due to the structured arrangement of components

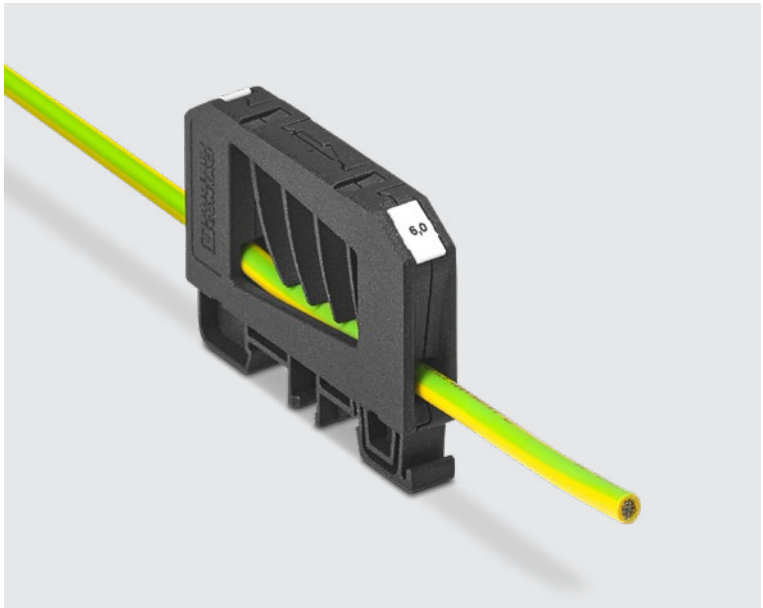
Gain more info:
Web code #3675

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Wire brake for assembly workstations

For efficient workstation design

The wire brake enables you to configure wires clearly and effortlessly in the cross-section range from 0.5 to 6 mm² at assembly workstations. The wire brake can be marked with the respective conductor cross-section and can be easily installed by snapping it onto DIN rails.



Main features

- Conductor cross-section: 0.5 mm² ... 6 mm²
- Mounting type: snapped onto NS 35 DIN rail
- Mounted by means of screw connection (optional)
- Can be marked with marking material for terminal blocks (UCT-TM6, UC-TM6)
- Dimensions (W x H x D):
  11 mm x 45 mm x 70 mm

Your advantages

- Time savings and reduction of search times with fast wire access
- Clearly arranged assembly workstations for wiring with orderly wire routing
- Marking option reduces the risk of mix-ups with similar cross-sections
- Improved accessibility of wires with flexible mounting options
- Easy installation due to compatibility with NS 35 DIN rails

Gain more info:
Web code #3561

L'IMPULSION Retrouvez nous sur www.limpulsion.fr

Zero-cut block for DIN rail cutters

Fast, precise zero cuts without measuring

During the manual cutting of perforated DIN rails, the zero-cut block enables fast and reproducible zero cuts without the need for time-consuming, repeated measurements. The slide can be used to easily set different zero-cut conditions.



Main features

- Suitable for perforated NS 35/7,5, NS 35/15, and NS 15 DIN rails
- Slide for setting different zero-cut conditions
- Equipped with cylindrical pin and magnets for a secure hold
- Compatible with PPS profile cutters from Phoenix Contact

Your advantages

- Reproducible and qualitative zero cuts for perforated DIN rails with just one setting
- Time savings and error reduction for zero cuts, since repeated measurement and drawing are no longer required
- Acceleration of the cutting process for DIN rails with time savings for zero cuts
- Fast setting of different zero-cut conditions with the slider

Gain more info:
Web code #3698

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Smart automatic stripping device

Strip wires quickly and easily

With the E.FOX S 10 smart automatic stripping device, you can process wires easily and efficiently. The touch display makes operation intuitive. The short cycle time and parameter adjustment via electric drives ensure fast stripping processes with repeat accuracy.



Main features

- Conductor cross-section:
  0.08 mm² ... 10 mm²/28 AWG ... 8 AWG
- Stripping length: 2 mm ... 20 mm
- Cycle time: 0.3 s
- 5" touch display
- Storage of up to 100 favorites
- Favorite selection with barcode scanner (optional)
- Stripping blade: V-shaped and flat blade (optional)
- Control via worker assistance software

Your advantages

- High efficiency through consistent use of data and smart worker assistance
- Time savings due to short cycle times and electric parameter adjustment
- A wide range of possible applications due to V-shaped blades with large cross-section range for diverse wire types
- Easy operation with intuitive visualization

Gain more info:
Web code #3515

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Worker assistance software

For guided assembly

The clipx ENGINEER assemble worker assistance software is an add-on for the clipx ENGINEER engineering software. By using the data from the engineering process, the software enables intuitive terminal strip assembly using step-by-step instructions.



Main features

- Software for terminal strip assembly including marking with step-by-step instructions
- Direct data transfer from the engineering process
- Paid add-on for the clipx ENGINEER engineering software (for the desktop version)
- Available on a subscription basis (12-month period)

Your advantages

- Time savings achieved by directly transferring project data from the engineering process
- Simplified representation of projects in production with step-by-step display of the process steps
- Selection of incorrect items prevented through the use of a pick-by-light system
- Process costs reduced by the direct printing of marking and labeling within the assembly process

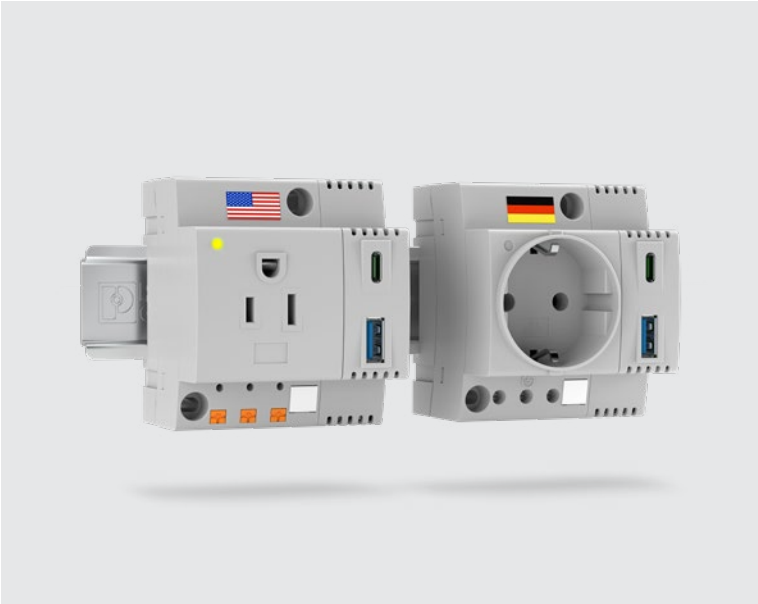
Gain more info:
Web code #3563

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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

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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

IO-Link

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

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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

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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

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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

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