FieldPower®

The modular solution for system automation

05.2022

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Economical solutions for decentralized automation tasks

With the FieldPower® modular system, classic control cabinet functions can be easily combined into functional units and arranged decentrally in the field.

Economical:
Modular carry over parts principle offers a wide range of combination options and enables cost-effective transformation from IP20 to IP65

Function-based:
Realization of automation and digitization in the field: Function modules can be placed as needed

Equipped for the future:
Comprehensive, ever-expanding product range that meets all relevant safety standards

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The FieldPower® modular system kit

Enclosure kit

Various sizes, black and transparent plastic lids as well as aluminum lids with cooling fins, ...

IP20 to IP65

IP20 components can be combined as required, tool-free installation of assembled and unassembled terminal rails, ...

Cabling solutions

A wide range of cabling solutions, FieldPower® connection technology for connecting uncut power lines, ...

Services

Support in project planning with mCAD and eCAD models, standard-compliant adaptation to international markets , ...

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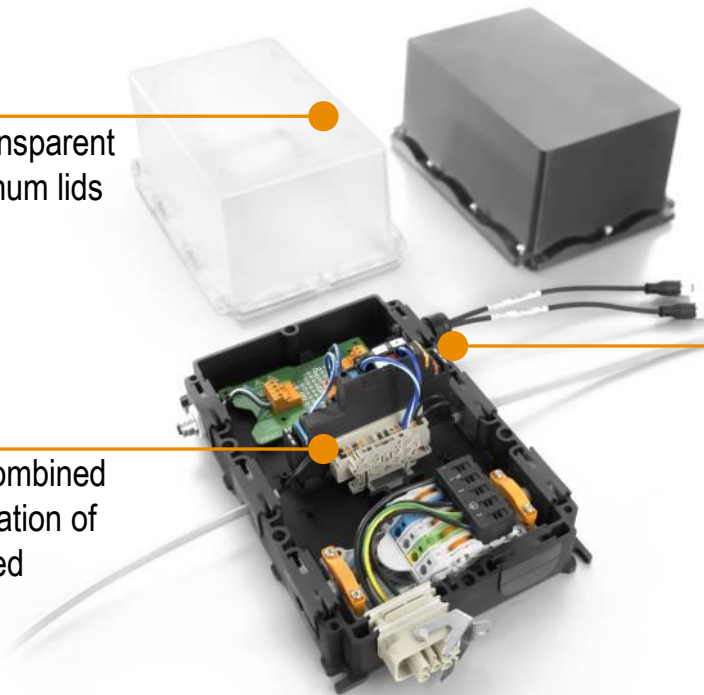
Enclosure kit

- Enclosure modules with protection class IP65, operating temperature -40 to 85°C

- Three different sizes with the footprints 181x104 mm, 196x196 mm and 284x196 mm

- Black and transparent plastic lids as well as aluminum lids with cooling fins for power electronics

- Individual modification with operating and signalling devices

- Adaptation of the inside contour of the enclosure without CNC machining

- Connection of different enclosure modules via seals possible

Product catalogue

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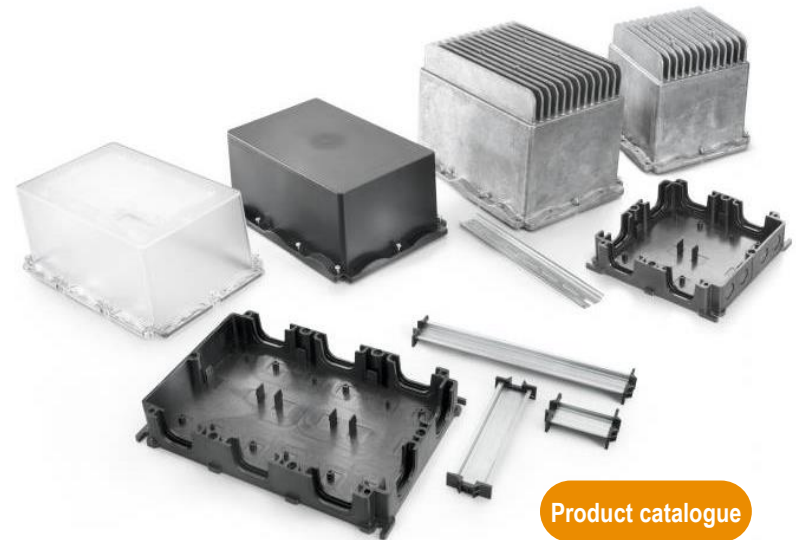
IP20 to IP65

Integration and combination of any
IP20 components to fulfill the
required function

Installation of power
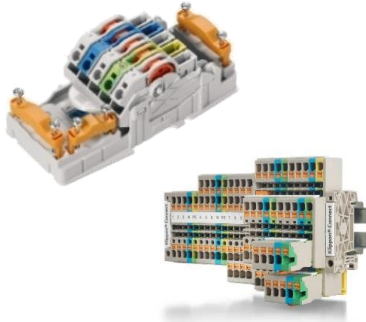electronics and electronic
circuit boards possible

Components for power
distribution with FieldPower®
connection technology

Tool-free installation of
assembled and
unassembled terminal rails

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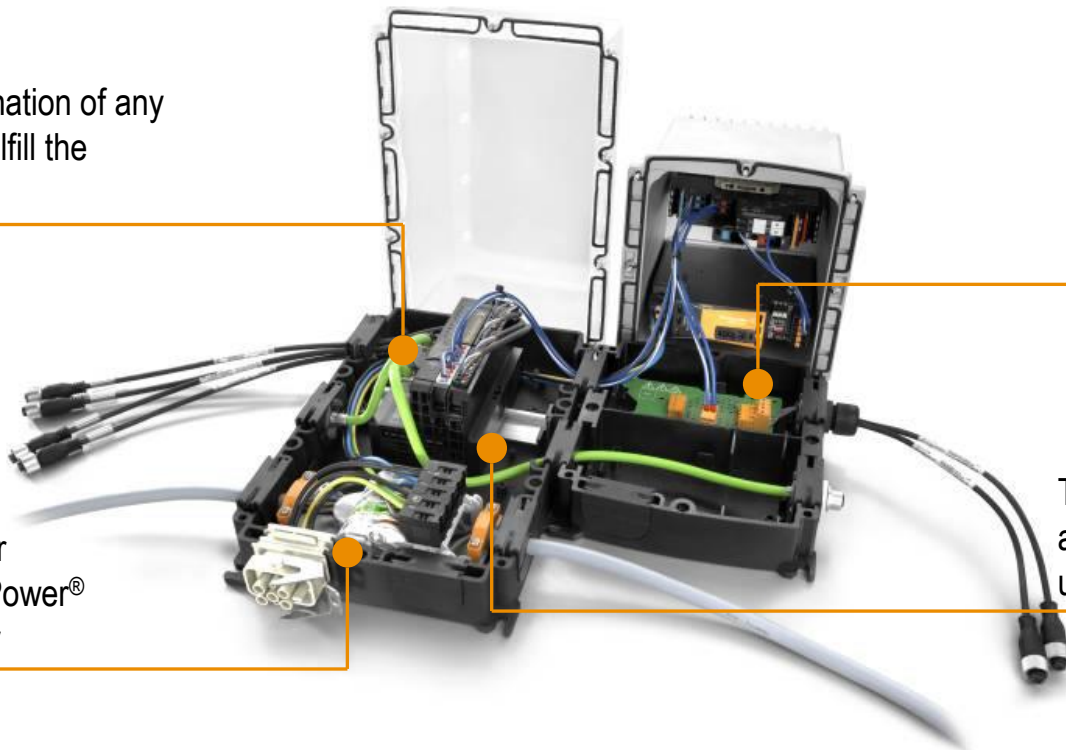
IP20 to IP65

IP20 components for fulfilling the required function can be integrated almost without restriction. Examples of this include:

Components for power distribution, e.g. the FieldPower® contact element

Power supplies INSTA POWER and PROtop up to 480W

Decentralized PLC u-control and I/O modules u-remote as well as Industrial Ethernet components like IoT gateways

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Cabling solutions

Seals for the use of pre-assembled cables

Foldable seals (IP65) for cable diameters between 7 - 17 mm

Slotted sealing inserts (IP54) for cable diameter 4x4 mm or 2x6.5 mm
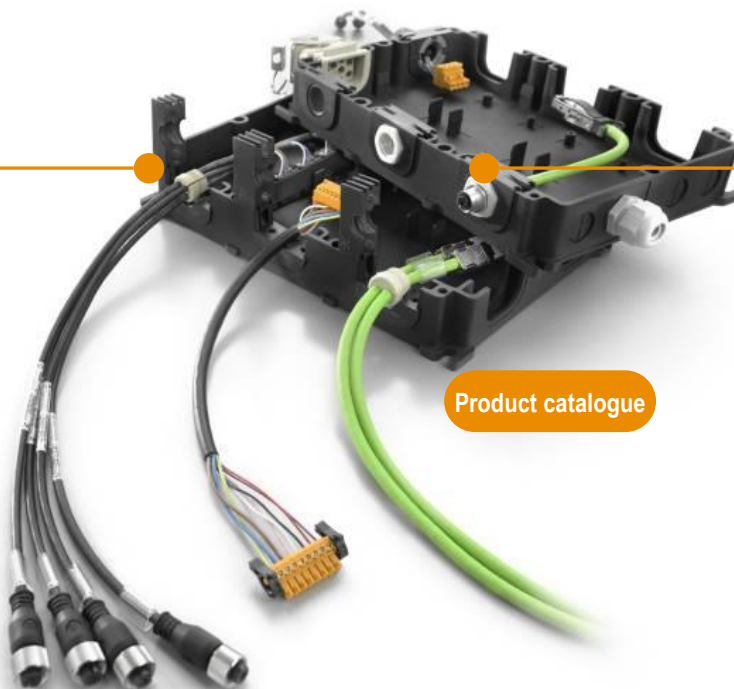
Seals with M16 and M20 connection thread

Installation e.g. of cable glands or M12 connectors

Adapter for the integration of operating and signalling devices (Eaton RMQ16) available

Product catalogue

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Cabling solutions

HQ Adapter for HDC Rockstar® HQ connectors

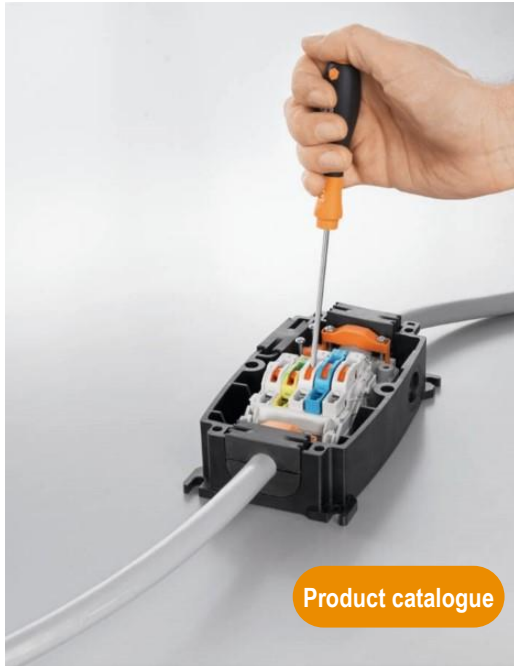Freely configurable or available with pre-assembled cables
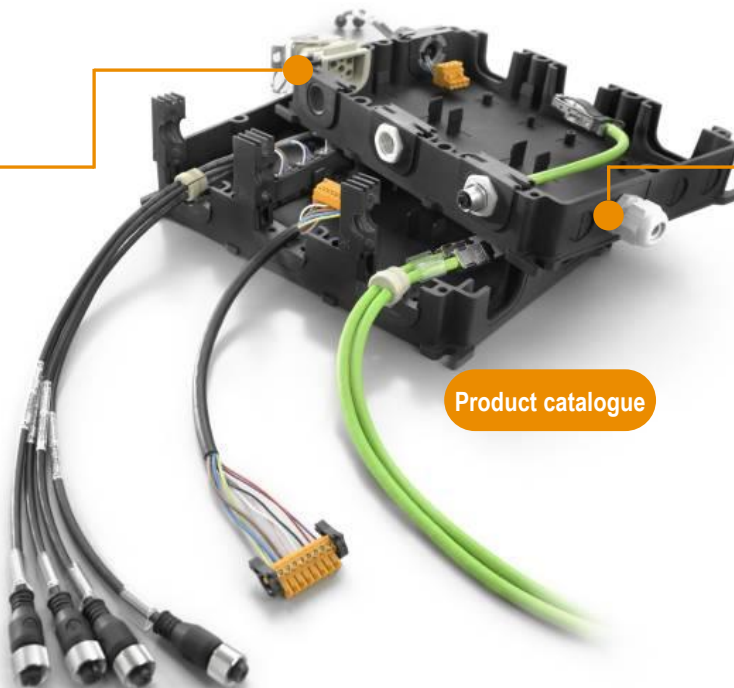
Cable glands with M16 and M20 connection thread can be integrated

Use especially when a strain relief of the cable is necessary

Product catalogue

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Cabling solutions

FieldPower® connection technology

Product catalogue

- Quick and error-free installation: The cable only needs to be stripped and not cut through due to IDC technology

- Time-saving, as no special tooling is necessary

- Due to the uncut cable, the impedance of the power bus line is particularly small and protective devices can operate reliably

- Conductor diameter from 2.5 mm² to 6 mm² connectable

- Integrated strain relief for round cables

- More information in the video

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Services

Our service offer covers all phases from planning to operation.

Support in project planning with mCAD and eCAD models, e.g. in EPLAN

Production of individually equipped terminal rails and pre-assembled cabling solutions as well as complete assembly of the function modules

Standard-compliant adaptation to international markets – e.g. UL-compliant design

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Exemplary solutions with FieldPower®

The modular system kit enables the design of customer-specific solutions.

Integrated power supply PROtop with IO-Link communication for 24V supply

Decentralized I/O modules u-remote, e.g. for the direct connection of sensors in the field

Power distribution in high-energy applications with the associated increased cable cross-sections (e.g. robotics)

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Standardized FieldPower® solutions

In addition to the components of the modular system kit available in the catalog and the customer-specific solutions that can be created from them, there are standardized FieldPower® solutions for specific functions.

Power distribution

- Solutions for branching, switching and protecting power

- All advantages of FieldPower® connection technology integrated

- Use of commercially available round cables

Product catalogue

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Standardized FieldPower® solutions

Decentralized power management

FieldPower® with integrated power supply PROtop	FieldPower® with integrated load monitoring topGUARD

Available in different configurations:

- 24 V / 48 V

- 240 W / 480 W

- With / without IO-Link communication, option for CAN communication

- With / without FieldPower® connection technology

Product catalogue

Different configurations available or in planning:

- 8 load outputs via M12 connectors, each protected with 4 A Class 2

Product catalogue

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Standardized FieldPower® solutions

IoT-Box Machine Data

Greenfield and retrofit solution for simple and flexible collection of machine data in the field, its pre-processing, storage and forwarding via network or cellular communication to own IT or cloud systems.
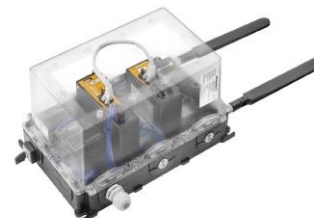
FP IOT MD01 4LAN S2 00000
Use when coupling to the factory network via LAN (Ethernet) is needed

FP IOT MD01 4EU S2 0000
Use when cellular communication coupling to the server/cloud is desired

FP IOT MD01 4LAN S2 00000
Use when cellular communication coupling to the server/cloud is required and several machines (up to 7) are to be coupled with separate Ethernet lines

Product catalogue

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