# Your application is broken down into many smaller parts Our connections bring them together to create a comprehensive whole

Let's connect.

FieldPower® Control

Weidmüller

**You want a single source for all your connectivity needs**
**We offer consulting, products, development and production**
Let's connect.

**FieldPower® Control: products and services custom fit for your needs**

Reducing costs and increasing efficiency are the challenges you will face even more intensely in the future. This means you'll need smart applications, custom fit for your needs and designed for the future.

FieldPower® Control is the ideal product on which to base small and robust functional components in the highest protection class. FieldPower® Control is a modular component with integrated power bus branches which offers enormous advantages, from planning through installation to commissioning and operation, anywhere that functions need to be decentralised or modularised.

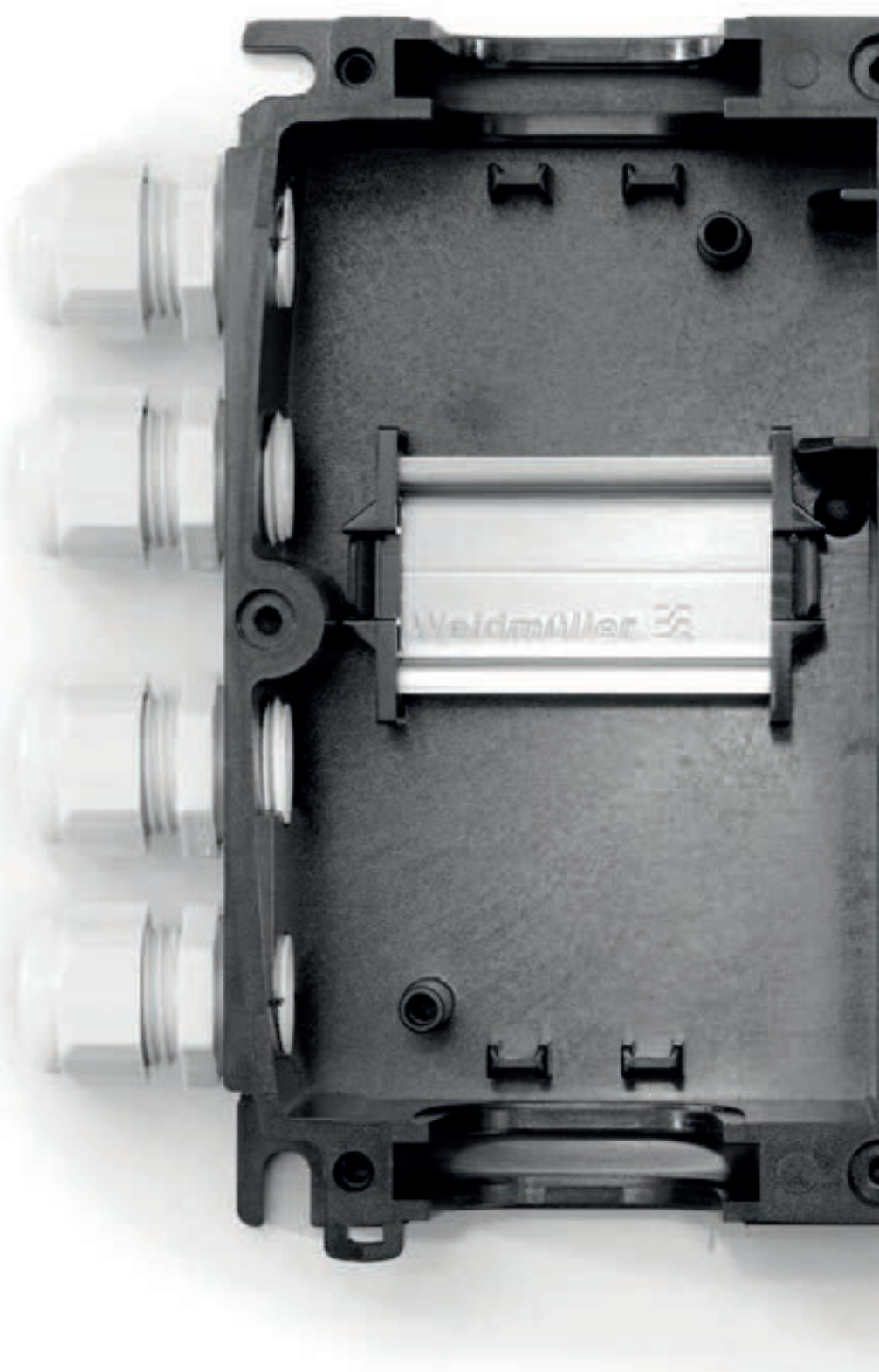
Weidmüller assists you in meeting these complex challenges with its comprehensive, highly qualified service, taking your project from consulting, development, and documentation through production and logistics to after-sales service.

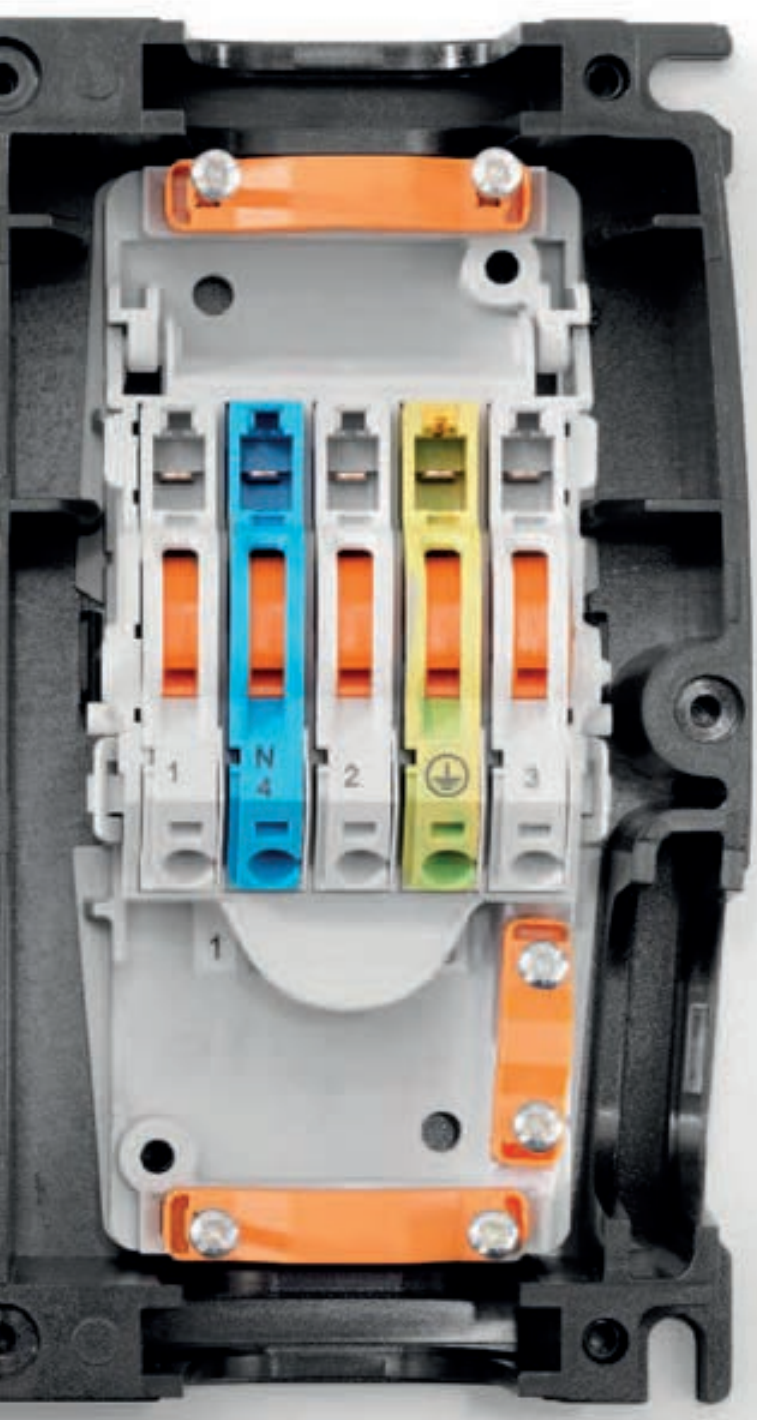
# Individuality is your principle
## Modularity is our program

**Put together your own local functional elements**

FieldPower® Control helps you quickly set up a solution specific to your application in robust plastic housings. The housings are modular and, depending on what's right for your application, you can equip them with FieldPower® contacts for power distribution with uncut wires or build in a mounting rail for electrical equipment. Retractable seals allow the insertion of cables with plug-in connectors. The cover comes in variable heights, so you have space inside and room to attach additional options.

That's not all that makes FieldPower® the best product for your local functional modules outside the cabinet. You also get long-term support for the best possible custom-fit application through our help with project planning, for which we provide precisely dimensioned drawings for the optimised use of your space and diagrams on the thermal dimensioning.






### Modular components

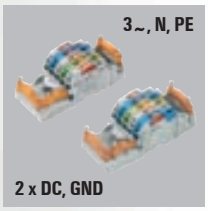
FieldPower® terminals or a mounting rail can be placed as needed, in the lower section, in order to fit the needs of the individual application. Retractable seals allow pluggable cables to be inserted quickly.

### Expandable cover

The cover is high enough to provide room for mounting rails for installed devices. Mounting plates can be integrated into the cover using mounting bosses.

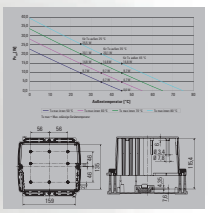
### Variable fastening mechanisms

The mounting rail provides 54 mm of installation width and can be used at two heights. This creates space for wires under the mounting rail.




### Expanded voltage and current ranges

A variety of applications can be implemented with the help of FieldPower® terminals in AC and DC versions up to 800 V/41 A.



### Help with project planning

Use the information on thermal dimensioning and the optimum utilisation of space starting on pg. 21.

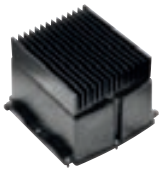
Cover
with LED illumination
(1390880000)

Cover
with maintenance switch
(1113120000)

Cover
with maintenance switch
(8000005211)

Cover
for rail mounted devices
(8000007627)

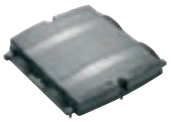
Cover
with heat sinks
(8000012627)



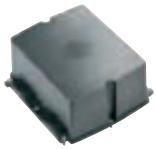
Flat cover
(1068890000)

High cover
(1276220000)

Flat cover
(1122200000)



High cover
(1121950000)



Lower shell
(1070140000)

Lower shell
(1121980000)

Lower shell with
4 M20 screw connections
(1121990000)

Cable seals
7.5 – 9 mm (4329610000)
9 – 11 mm (4323210000)
11 – 13 mm (4323230000)
13 – 15 mm (43232200000)
15 – 17 mm (4324010000)

Blanking seal
(4323240000)

Simple plug-in connector
3 ~, N, PE (1952120000)
2 x DC, 1 x FE (1131730000)
Neutral (1010910000)

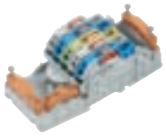
Double plug-in connector
3 ~, N, PE (1952130000)
2 x DC, 1 x FE (1009990000)

Fuse plug-in connector
3 ~, N, PE (1961770000)
2 x DC, 1 x FE (1252210000)

Locking element
for plug-in connectors
(1816130000)

Contact module, 5-pole
3 ~, N, PE (1957620000)

Contact module, 5-pole
2 x DC, 1 x FE (1126840000)



Contact module, 5-pole
1 ~, N, PE, 1 x DC (1269960000)

Coding element for plug contact
(1816150000)

Clip-on mounting rail
W = 54 mm (1170690000)

You'll find our entire range of FieldPower® products in our "FieldPower® – solutions for local automation" brochure or at www.weidmueller.com/Fieldpower.

**The advantages at a glance:**

**Housings**
- robust polycarbonate
- highest flammability rating 5VA UL 94 certified
- suitable for outdoor use in IP54/65 protection class

**Contact modules**
- AC, DC or combined applications
- Up to 800 V / 41 A with wires 2.5 – 6 mm²
- Pluggable outlet lines and Firmly wired

**Plug-in connectors**
- AC, DC or combined applications
- Up to 690 V / 32 A with wires 0.5 – 4 mm²
- Simple, double and fuse plug-in connectors

**Cable seals**
- Hinged for uncut or pre-cut wires
- For conductor cross-sections of 7.5 – 17 mm
- IP 54/65 protection class, LABS-free elastomer (EPDM)

# Efficiency is your requirement

## Finished functional components are our offer

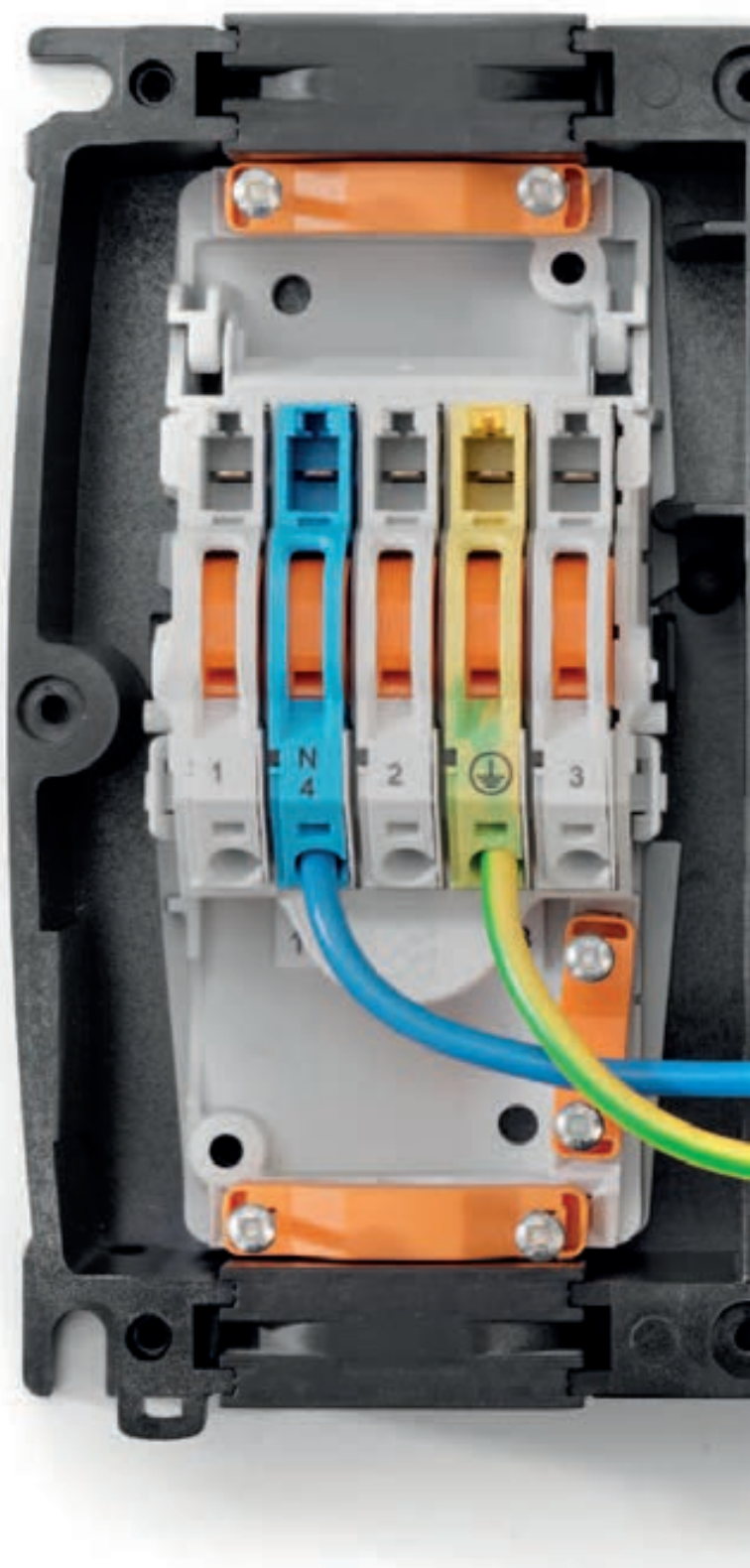
**We build and deliver your local functional components.**

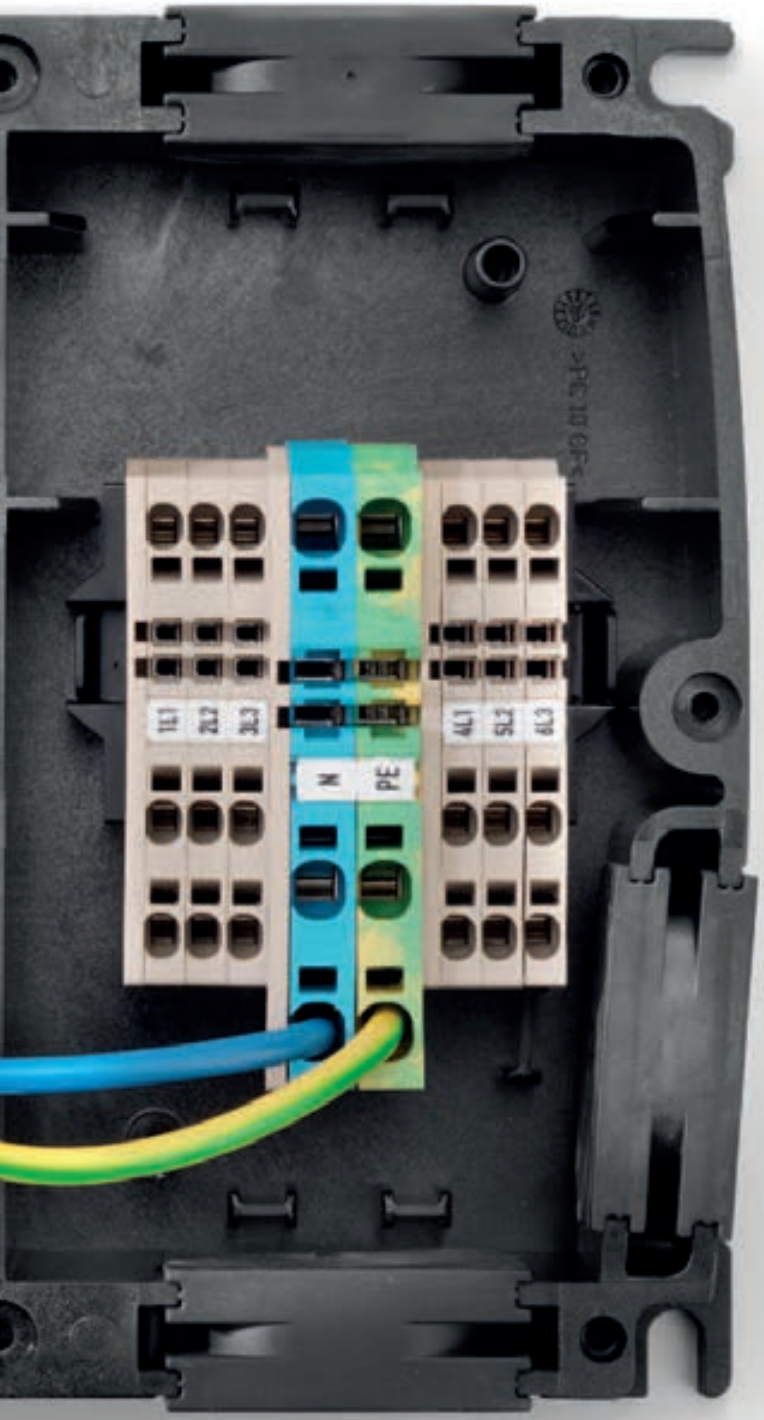
Weidmüller offers not only individual components but also complete, custom-fit functional units.

Our customised solutions offer you new opportunities for cutting costs and optimising efficiency. At the same time, you simplify your quality management, because getting strong production quality from a single source eliminates the need for coordinating with different component suppliers.
The final product, the sum of several individual components put together, brings you crucial advantages.

- **Simplified ordering and stock keeping**
  One solution, one part number! No need to order individual components, a smaller range of parts and less stock keeping.
- **Professional installation**
  The individual components are delivered completely pre-installed. This reduces your installation work, saving you time and money.
- **Less documentation work**
  Our RailDesigner® software is a valuable aid in creating parts lists and drawings.

Please send requests to
rfq.middle-hub@weidmueller.de.






**Functional housings**

The FieldPower® Control functional housings provide local, modular functional units with a high degree of protection and custom-fit connectivity technology for your AC and DC power supply.

Installing modular terminals, electric and electronic equipment and housings, as well as switching and protection units, turns the FieldPower® power distributor into a local cabinet with protection class IP54/65.


**Build upon technology designed for the future**

The trend in engineering for machinery and plant manufacture has already moved toward local, modular automation. This development can also clearly be seen in intralogistics and airport logistics, as well as the production processes in the automotive industry. The advantages of a modular setup are obvious:
easily understood systems, reduced maintenance time and downtime for systems and machinery when repairs are needed, and the simultaneous production of different components and subsystems.

Individual system modules determine what engineering is needed in these concepts.
They are planned according to their individual purposes. System modules can easily be duplicated and re-used.
In short, modularity is efficient and reduces costs over the long term.

Let’s connect.

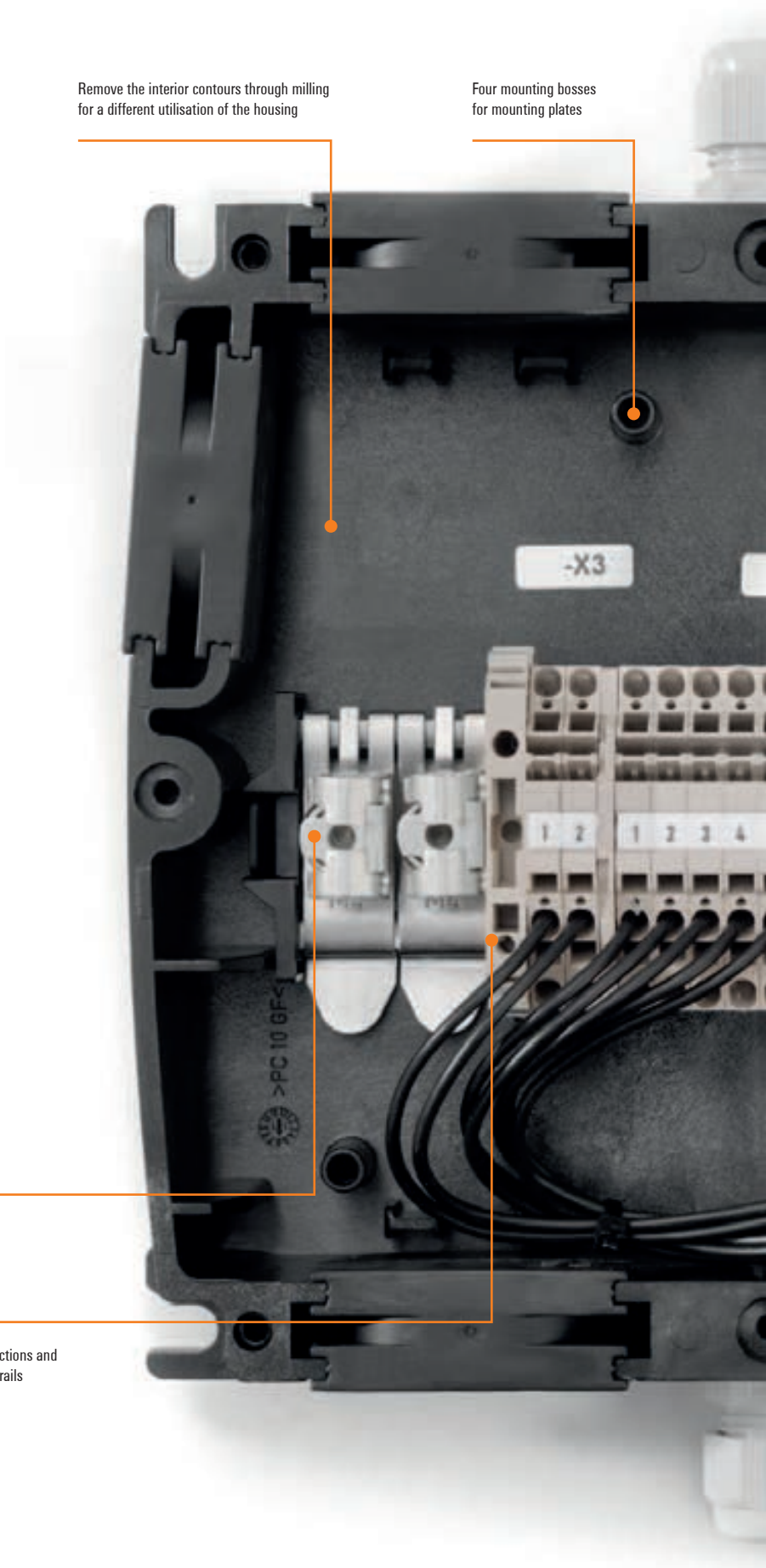
# Your requirements are quite unusual

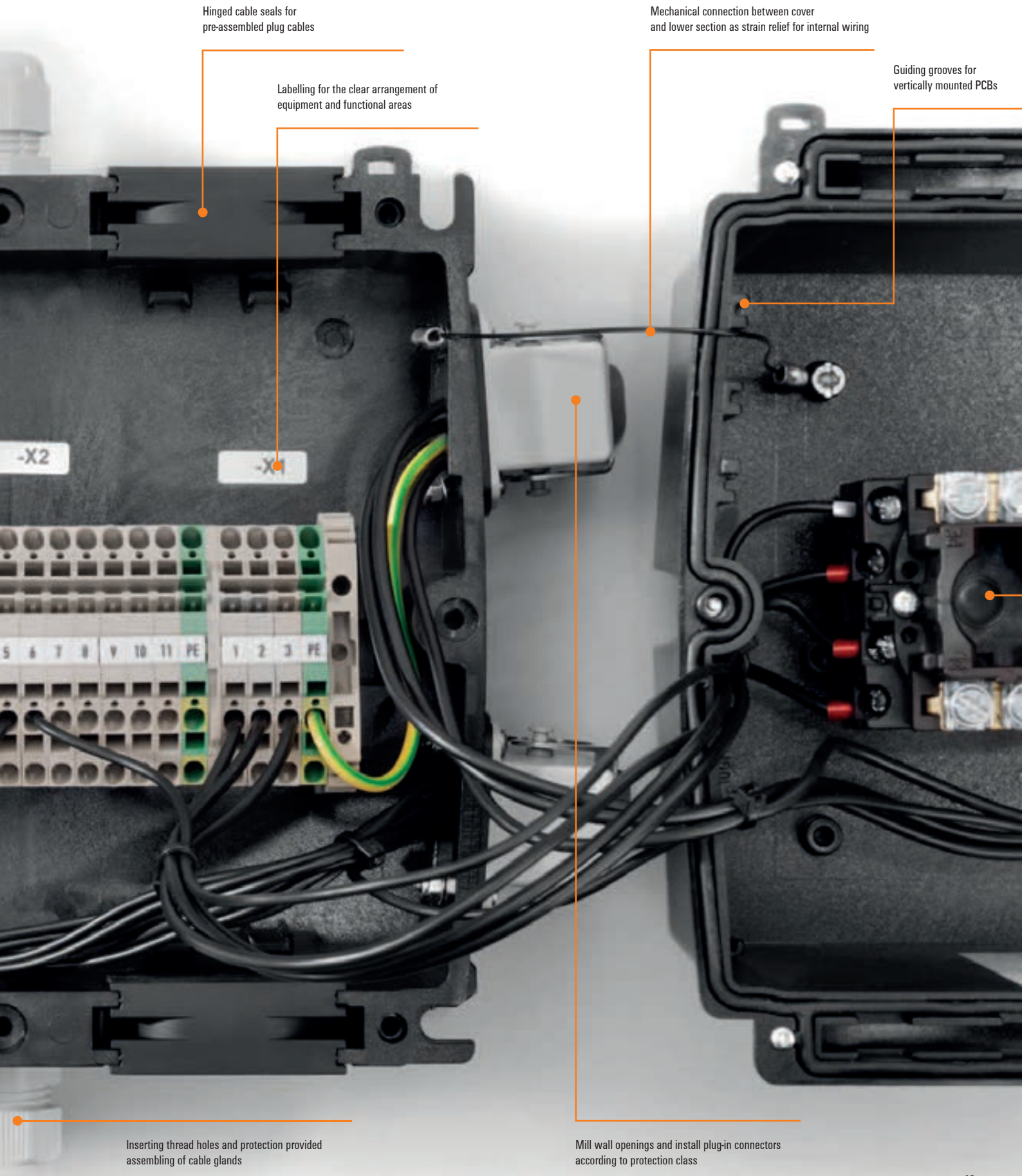
## Use our expertise

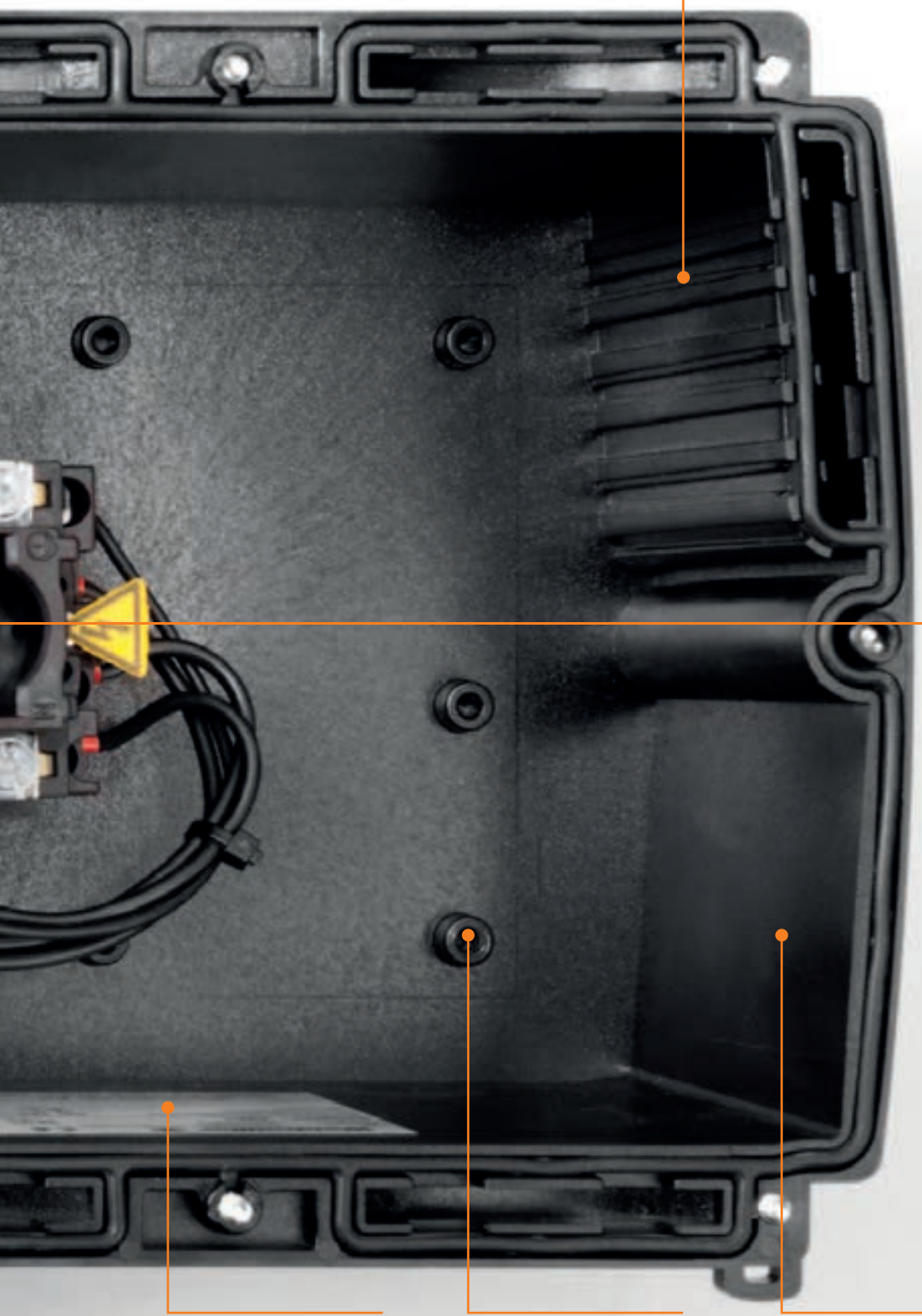
**We can custom-fit the individual housings for your specific solution.**

We develop custom-fit housing solutions with a high degree of protection specifically for your application.
You can count on our assistance from the very beginning, because, as specialists in industrial connectivity, we can begin our support as you analyse your starting point and define the project. We offer intensive consulting and collaborate with you to develop the ideal housing configuration for your application. And our assistance reaches beyond the product development stage. Our expertise is at your disposal even after the project is completed, in the form of our comprehensive after-sales service.

Please send requests to
rfq.middle-hub@weidmueller.de.




Hinged cable seals for
pre-assembled plug cables
Labelling for the clear arrangement of
equipment and functional areas
Mechanical connection between cover
and lower section as strain relief for internal wiring
Guiding grooves for
vertically mounted PCBs
-X2
-X1
Inserting thread holes and protection provided
assembling of cable glands
Mill wall openings and install plug-in connectors
according to protection class


Guiding grooves for
vertically mounted PCBs
Mill cover cut-outs and install switches, protection and signalling devices, as well as a hinged cover with a mounting rail or heat sink, according to protection class
Ratings plates with company logo and device information
Eight mounting bosses for mounting plates or PCBs
Install M12 or RJ 45 built-in plugs according to protection class


**Local functional unit – especially for you**

You can equip your customised functional unit with the following modules:

- Switches and protection devices
- Outlets
- Hinged cover
- Mounting plates
- Pre-assembled plug cables
- Power electronics
- Heat sinks
- Terminal strips
- ...

For more information, please go to **www.weidmueller.com/fieldpower_control**

# You expect flexible application options

## Examples of the use of FieldPower®

**Power distributors with PROFIBUS bifurcation in an automotive paint shop**

You can avoid potential problem areas and ensure strong operating reliability by leaving the 400 V cable uncut at the bifurcation point. In addition, the FieldPower® bifurcation module facilitates quick, error-free installation.

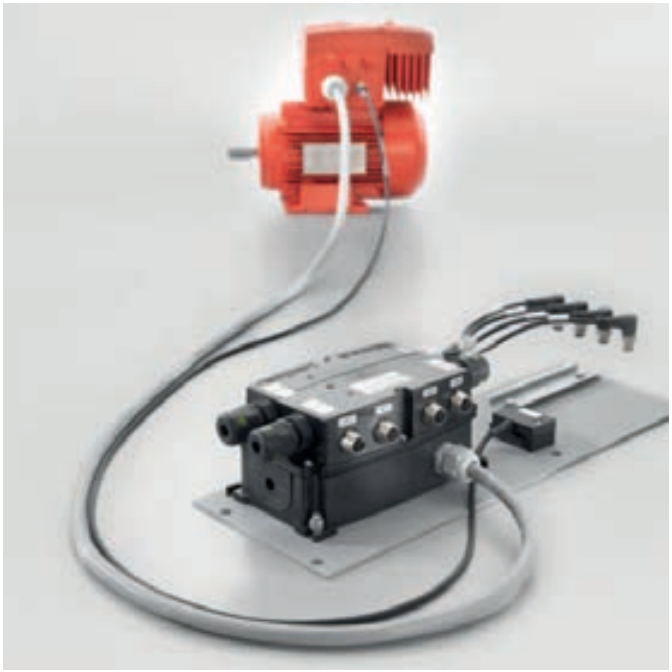
The bifurcation electronics for the Profibus are well protected in the robust FieldPower® cover. The best choice for connecting the adjacent module are the pre-assembled Profibus cables in the cover with moulded M12 plugs. The interface to the local frequency converter is the joint plug-in connector for 400 V and Profibus, which is easy to replace if service is needed, minimising system downtime.

**Integrated field cabling solution**
**Furniture store logistics**

Automated storage and retrieval systems are used here. Light grids measure the maximum height and overhang during pallet verification. The drive controls and light grid signalling is handled using the AS interface. FieldPower® is used as the connectivity solution for power, signals and data: a 400 V AC connection for the local drives, 24 V DC to power the light grid and ASI communication for the drives and the light grid signals.

This solution connects the light grid's senders and receivers via pre-assembled M12 Y cables with the AS interface E/A module and the 24 V power supply. In addition, the drivers are completely integrated, so that mechatronic functional units can be added to the assembly simply and error-free.

Customer solution modules



Finished toolbox 8000004778

**Engine control unit with bus connection**
**Compact solution for local drive technology**

The motor starter is attached directly to the FieldPower® Box in order to integrate the power distribution and motor control functions into one enclosure located on site. The result is dramatically reduced installation and commissioning times. Facility planning is also accelerated with this integrated and flexible drive solution.

The FieldPower® Box with motor starters and frequency converters is available in variants for specific functions which feature standardised connections. Depending on the variant chosen, one or two three-phase motors are connected to the IEC 23570-compliant RockStar® HQ plug-in connector using pre-assembled cables. Pluggable M12 connections provide control options for an AS interface, sensor system and hand-held controller. On the operating side, installed LEDs indicate the operational status, the Fieldbus status and also an error message if the motor overheats.

**Motor distributors for energy, data and signals for the transport and sorting of clothing**

In applications where production and distribution deal with a large number of pieces in a short period of time, the buffer zone has to be flexible enough to match the volume. In addition, the goods have to be counted, controlled, labelled and/or picked. Smart system solutions with local motor control units are the best choice for controlling these complex processes efficiently and economically.

FieldPower® retractable seals allow cables to be inserted quickly according to their protection class, and plug-in connectors facilitate the error-free connection of the motor while the mechanics are installed. Uninterrupted operation is ensured by the use of separate cables: 400 V, RS485 data line with shield connections and 24 V with additional control signals. There is even an optional personal safety feature available in the form of a lockable maintenance switch, a definite must-have for systems that aim to meet UK safety standards.

400-V-junction with contact module and plug-in connector

Finished toolbox 8000008216 & 8000008456

**Power distribution with automatic circuit breakers in warehouse technology for long goods**

Space-optimised storage, fully automated material handling, and efficient process chains are the primary tasks of warehouse technology for long goods and sheet metal. Outlets on the supply lines must be installed to provide power supply to the local control panels and drive equipment for the motors, including protective measures.

The FieldPower® Box with automatic circuit breakers facilitates the installation of up to two fused power outlets in a very short time and with little effort. The standard Box is already equipped with three-phase automatic circuit breakers to protect the outbound lines from short circuits and overload. The users greatly reduce the time, material and work needed for installation of the FieldPower® Box LSA, thereby gaining an efficient, cost-effective solution.

**Feed-in box with power distribution and lockable power switch for local peripherals in production logistics**

To ensure continuous material flow in production, you need alternative routes in order to maintain the pre-defined pulse times. This requires system and layout modules with pre-defined and tested functions using modular controls and modular software.

FieldPower® Control modules support these flexible system concepts in a unique way. All of the functions you need can be reproduced with our range of carry-over parts. In this case, it is the pluggable 400 V branching with integrated circuit breaker for short-circuit and overload protection. The ET200 PRO stations, including the required line breaker for maintenance work, are also available – and some series come with a lockable twist grip.

Finished toolbox 8000006235 & 8000006884

Customer solution modules

**Sockets with FI protective circuit in the gondola and nave of wind power plants**

In order to ensure the uninterrupted operation of wind power plants, service technicians need to be able to perform their maintenance and control tasks on the gondola and nave as comfortably as possible. This means that 230 V outlets have to be available at various places in such a way that neither the top box nor the pitch box needs to be opened.
It is a strict requirement to install fault current circuit breakers (RCD or GFCI) for personal safety which cannot influence the surrounding systems when triggered. Sockets and their respective protective circuits must be clearly labelled and visible so that the status can be checked and the system switched back on quickly and without confusion.

This FieldPower® Control module meets all of these requirements. It is also very compact, so it can be installed onto a mounting plate without a lower shell and – suiting the strict mechanical requirements – it is very robust.

**CEE 400/230V sockets for maintenance work in the wind power plant tower**

Because of their height, wind power plants can be assembled only in individual parts. Therefore, the towers are brought to the erection site in segments and the mechanical and electrical connections are carried out there.

The wiring concept for the tower interior lighting and the service sockets follows this segmented assembly. Initially, only the lower shells are installed in the tower segments. The cable segments are pre-assembled at the factory for a custom fit. These are rolled out at the construction site and then fastened to the lower shells in the tower segments. The segments are connected using plug-in connectors. The advantages of this system are that it offers greater theft protection and that installation can be done regardless of the temperature.

Finished toolbox 8000012708

Customer solution modules

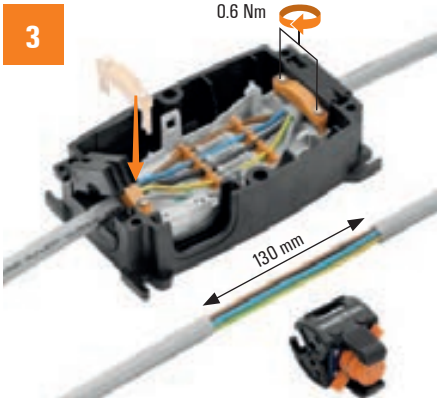
# FieldPower®

## The connection principle

1

2

3

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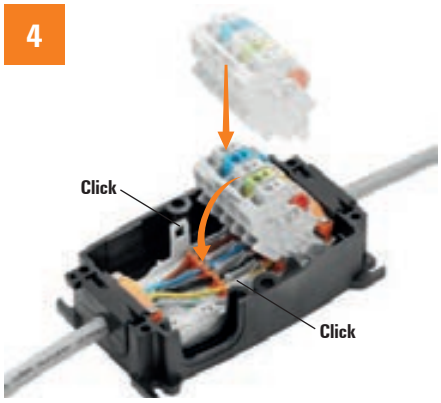


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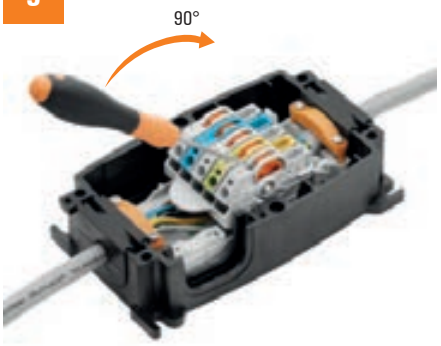


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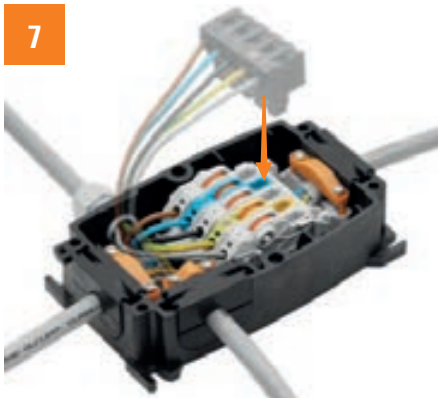

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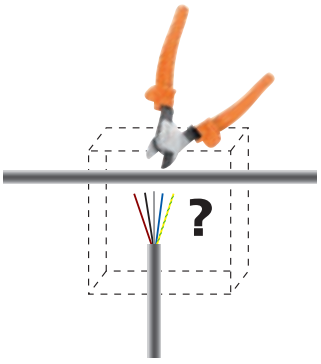
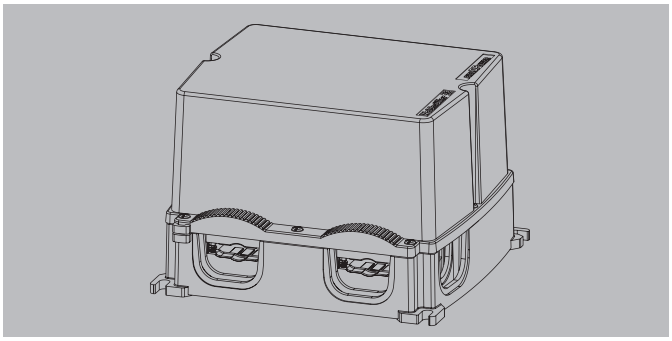



Let's connect.

An installation video can be seen at:
**www.weidmueller.com/de/FieldPower_Video**

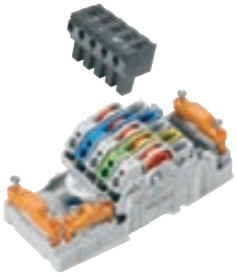
**Practical tip: if the cable is too short, FieldPower® is the solution**
The cable needs only to be stripped, not cut. No confusion, no incorrect connections. The ideal solution for later installation, as well.

# Help with project planning FieldPower® Control

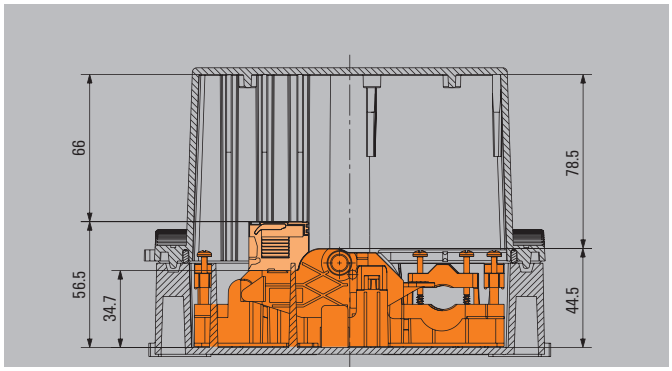


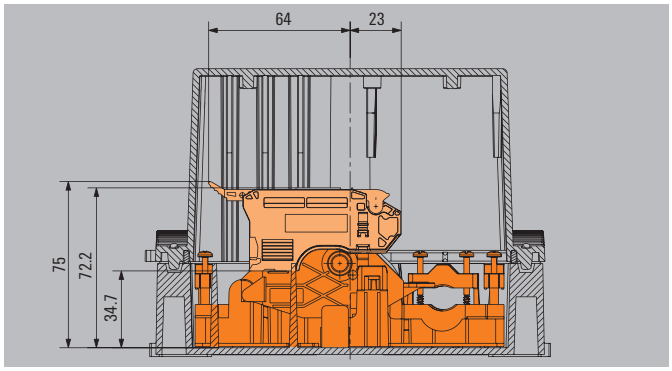
CAD models can be found at
**http://catalog.weidmueller.com**

**BG GHDE HO PT6**
**BG GHDE 10P HO PT6**
**PTS 4...**
**PT6...**
**GH PT6**
**GH 10P PT6**

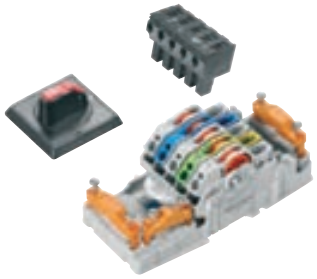


**BG GHDE HO PT6**
**BG GHDE 10P HO PT6**
**PTS 4...**
**PT6...**
**GH PT6**
**GH 10P PT6**

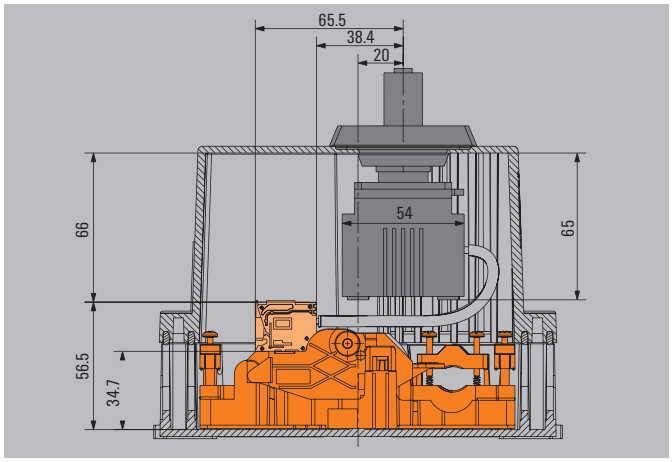


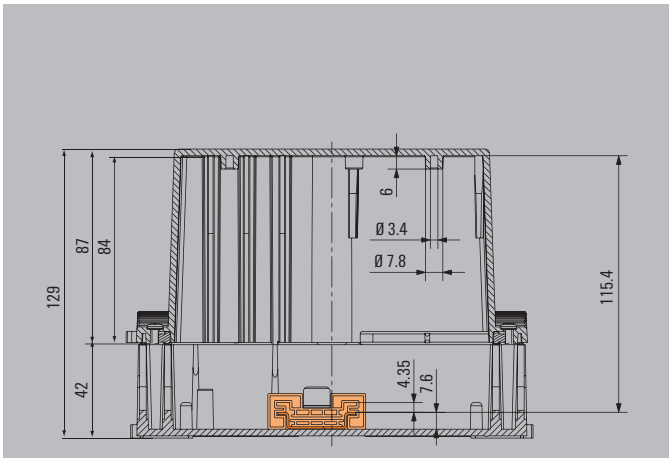




**GHDE 10P HO ON/OFF PTS4**
**BG GHDE HO SA UL PT6**
**PT6...**
**GH PT6**
**GH 10P PT6**



**BG GHDE HO PT6**
**BG GHDE 10P HO PT6**
**TS 35 PT6**
**GH PT6**
**GH 10P PT6**



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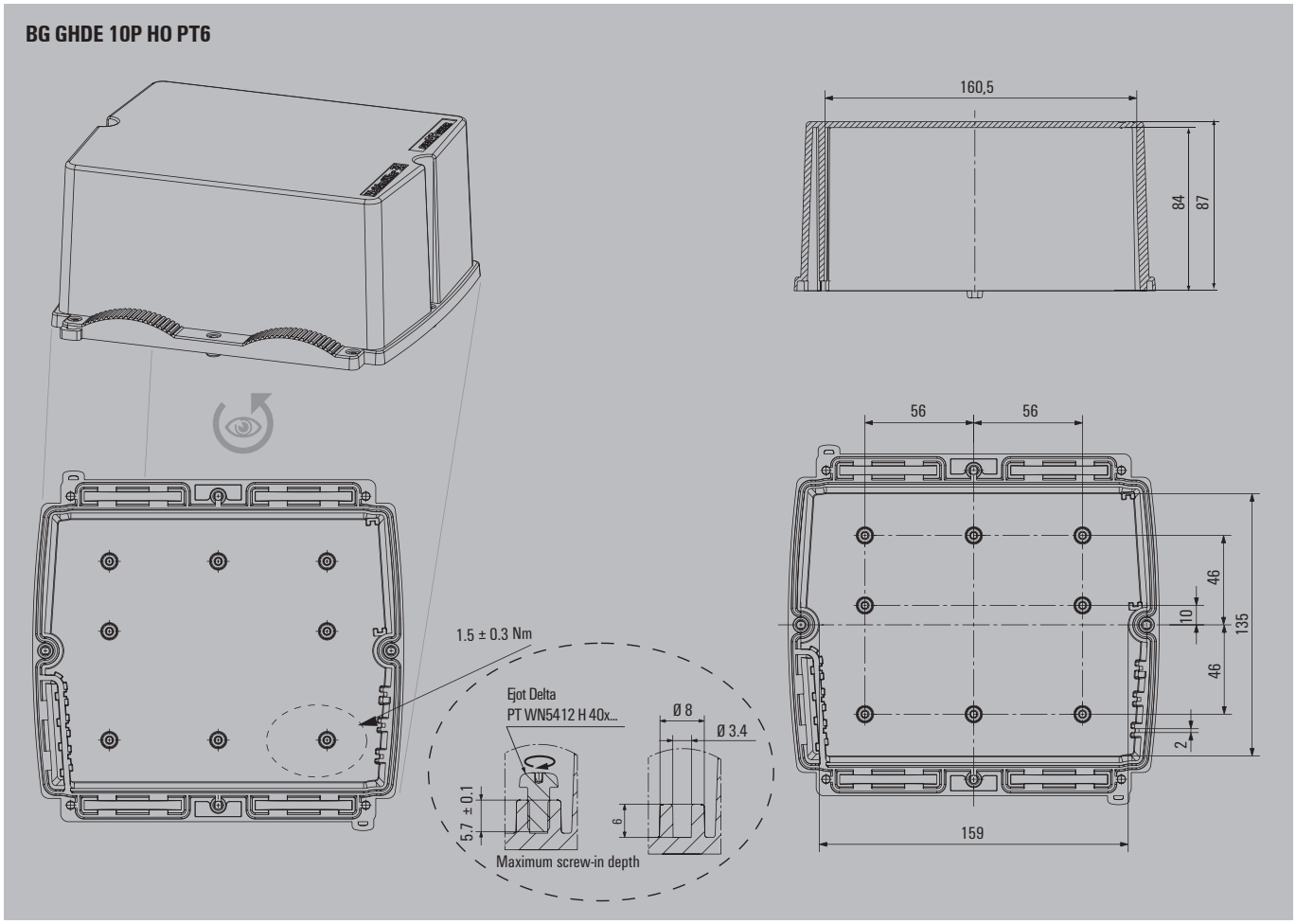
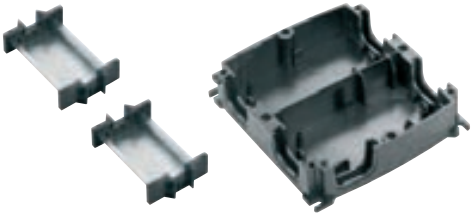



## TS 35 PT6
## GH 10P PT6



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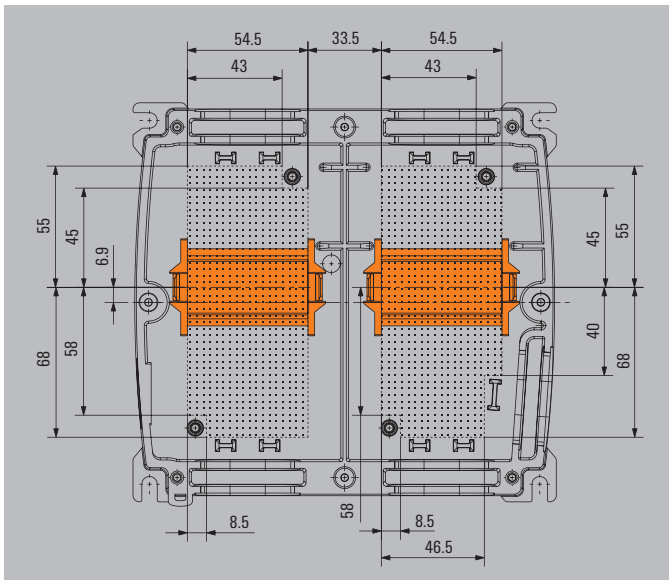
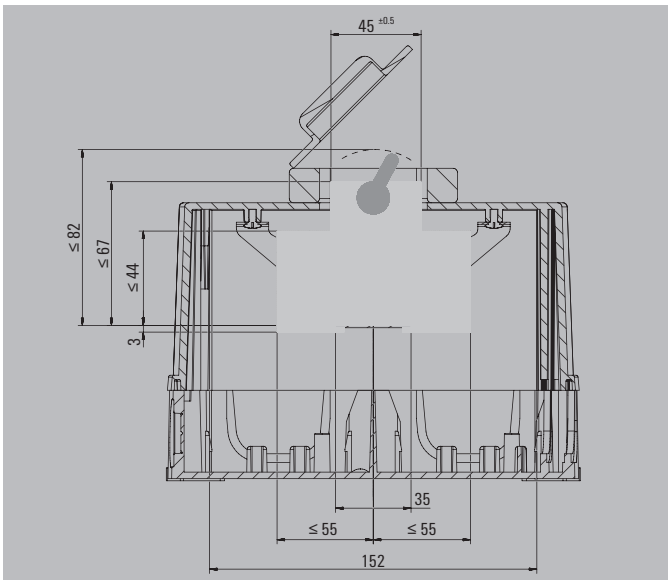
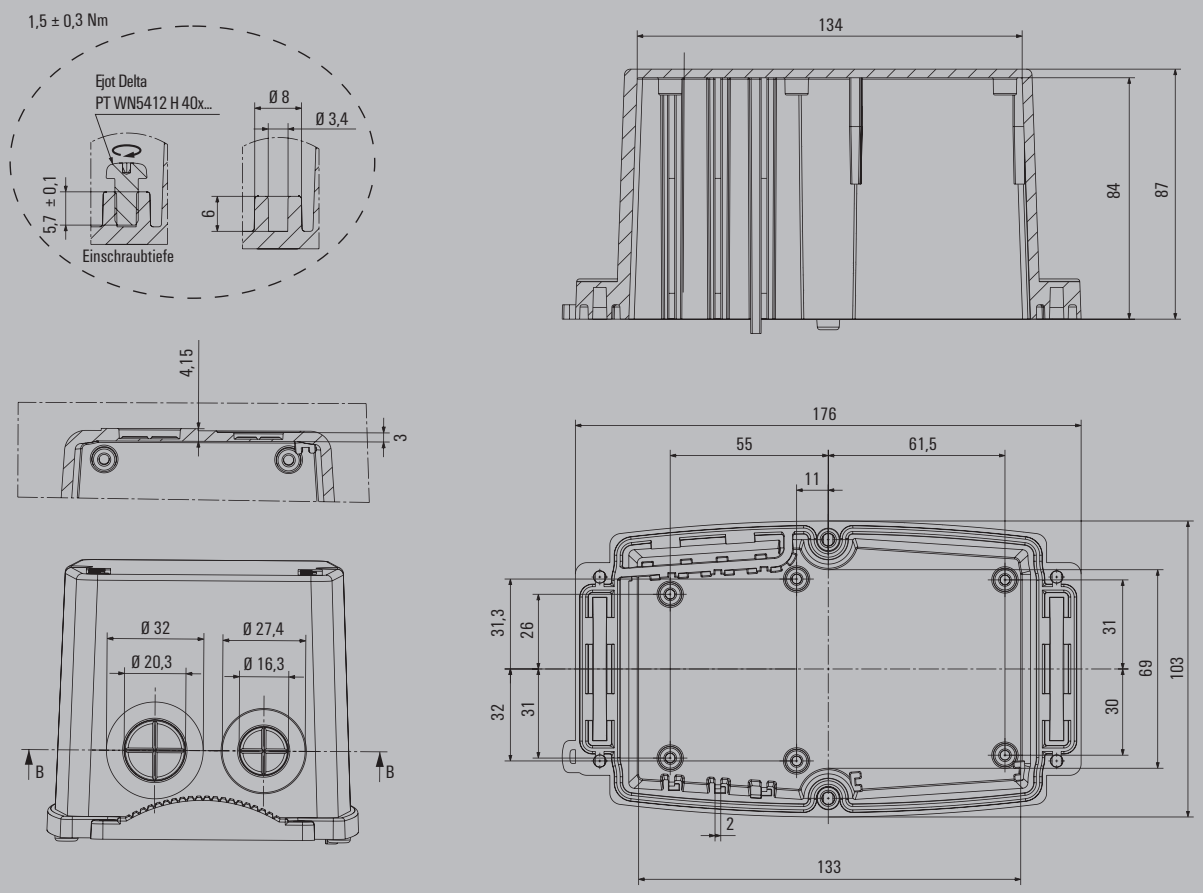
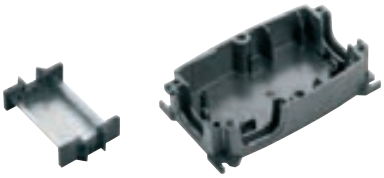


## BG GHDE HO PT6




## TS 35 PT6
## GH PT6



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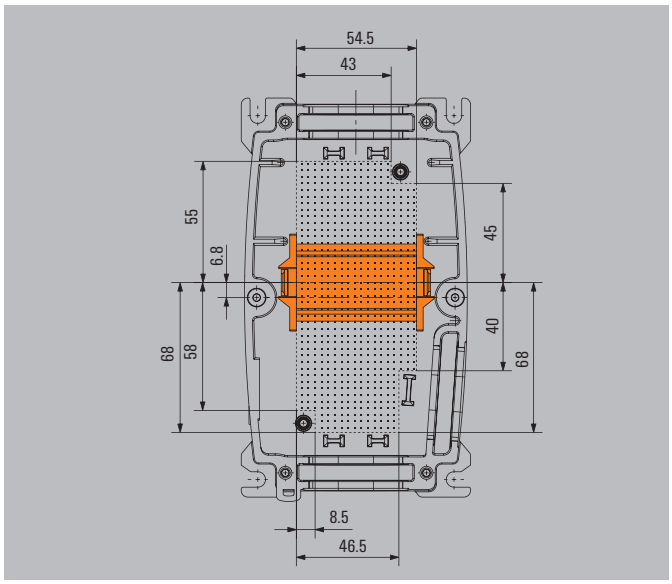
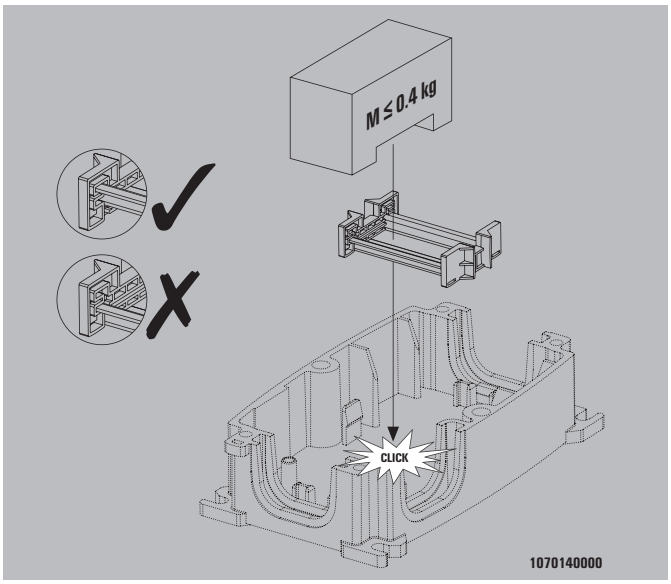
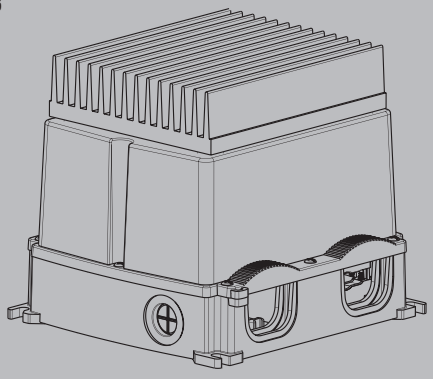
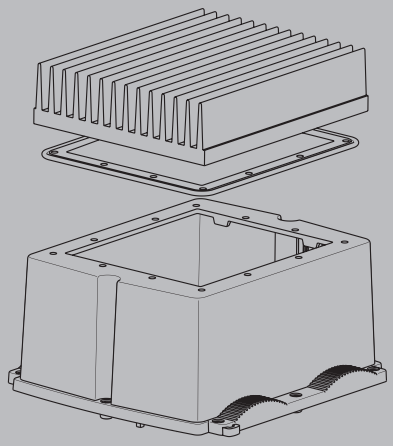
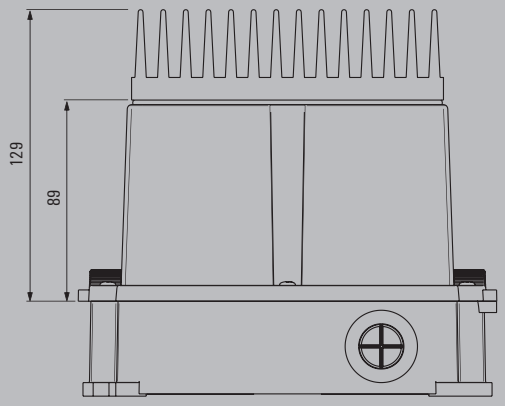


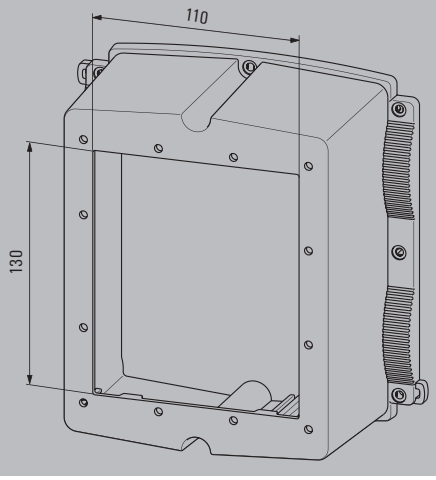



## BG GHDE 10P HO KK138

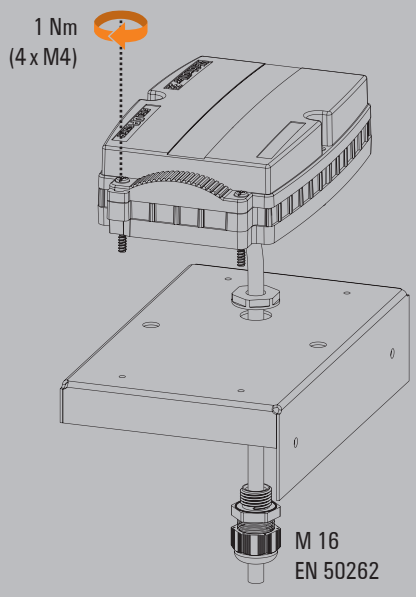


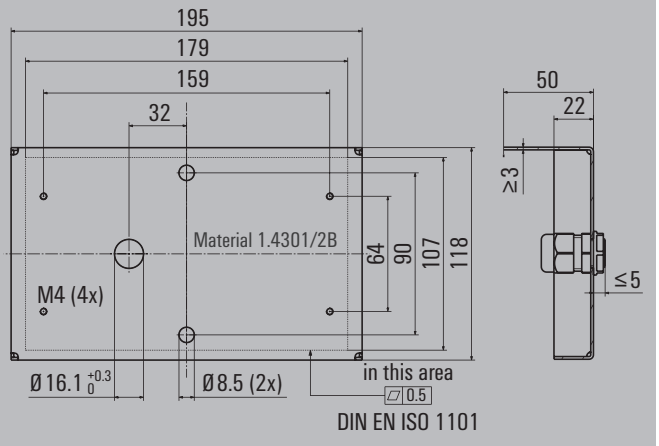




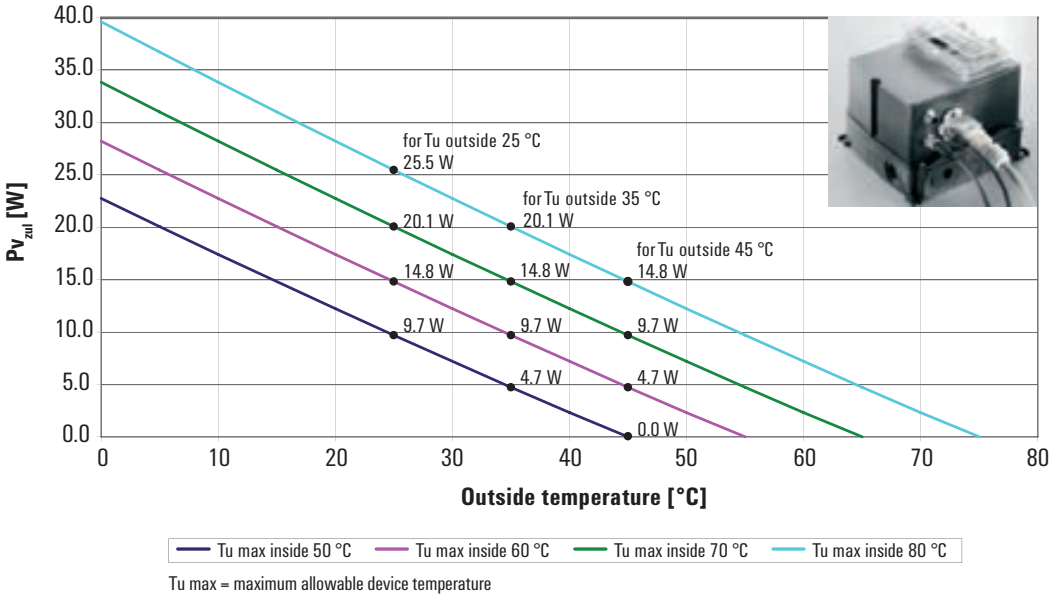

## BG GHDE LED M4 PT6



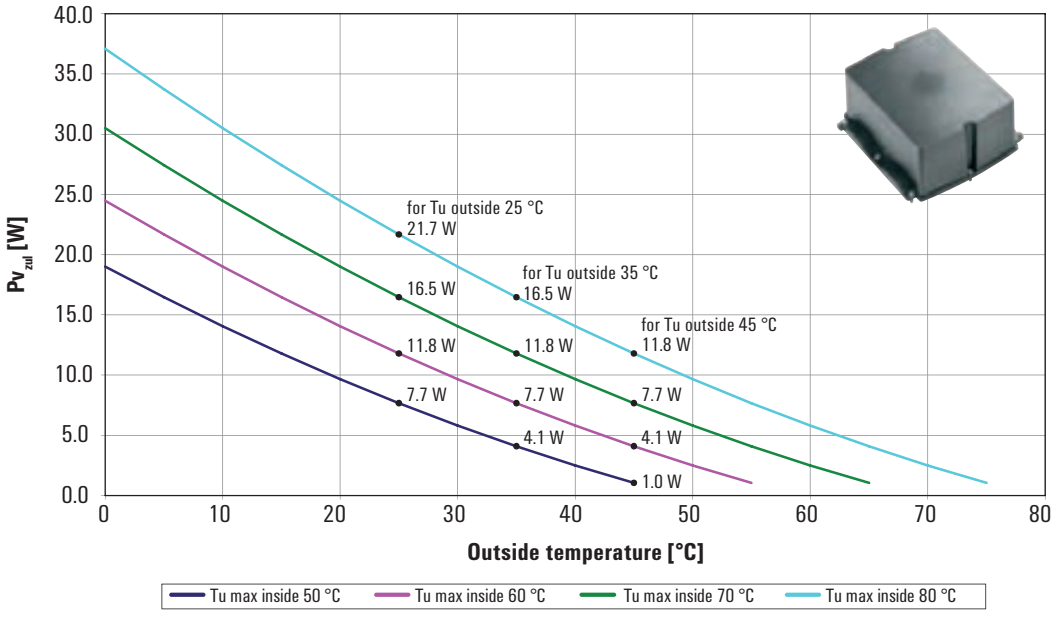
# Help with project planning
# FieldPower® Control

**Built-in power loss**
Permitted built-in power loss in relation to the external ambient temperature and the maximum ambient temperature for the components built in to the FieldPower® Box GHDE 10P REG
**$Pv_{zul}$ = Permitted built-in power loss**




Tu max = maximum allowable device temperature

Permitted built-in power loss in relation to the external ambient temperature and the maximum ambient temperature for the components built in to the FieldPower® Box 10P HO **without hinged lid**
**$Pv_{zul}$ = Permitted built-in power loss**




Tu max = maximum allowable device temperature

# Fax reply

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Please send me more information:

- [ ] Product information on FieldPower®
- [ ] Contact me
- [ ] Customer reference information for FieldPower® Control

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