

Electronics housings

Product overview 2019/2020

PHOENIX CONTACT
INSPIRING INNOVATIONS

Electronics housings for DIN rail and field applications

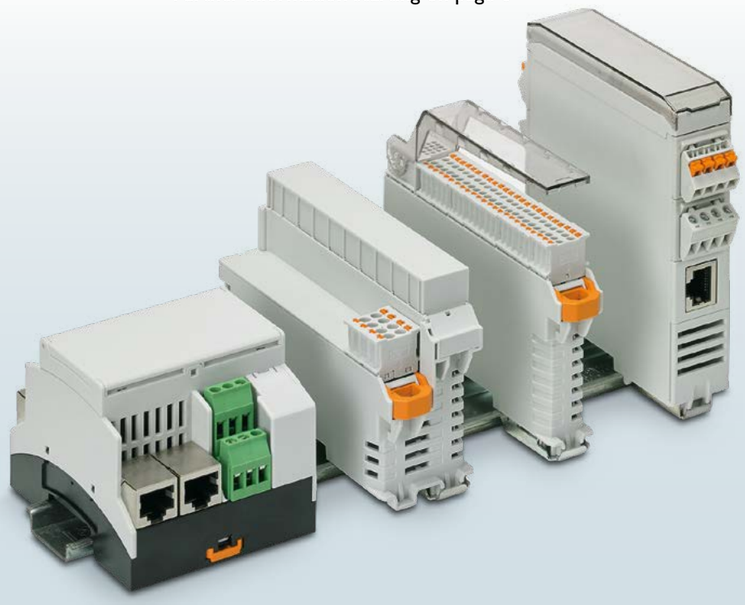
A wide range of options for form, color, and function – this is the central idea behind electronics housing types from Phoenix Contact. Whether on a wall or on a DIN rail, from light gray to sky blue, narrow or wide – you will always find the right housing for your electronics here.

Web code: #0514

DIN rail housings

Fully flexible in shape, color, and function: DIN rail housings are the ideal packaging for your electronics. They protect the installed PCBs, can be mounted easily on DIN rails, and offer perfectly integrated interfaces for transmitting signals, data, and power.

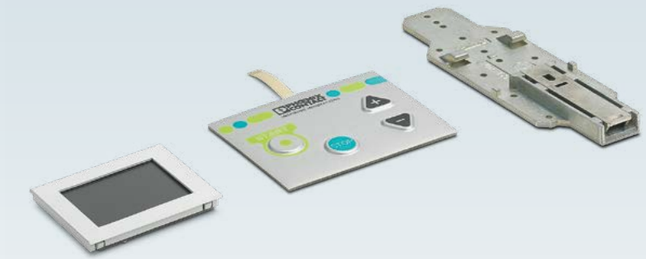
Further information starting on page 6



HMI components and accessories

Highly automated production processes require user-friendly interfaces between the operator and the machine. Displays, membrane keypads, and light guides turn electronics housings into functional display and operator interfaces.

Further information starting on page 40



Field housings

Whether as stationary display units, mobile operator panels, or embedded systems – field housings from Phoenix Contact provide a high degree of protection ideal for countless building, industrial, and process automation applications.

Further information starting on page 28



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Find out more with the web code

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

Web code: #0317

Or use the direct link:
phoenixcontact.net/webcode/#0317

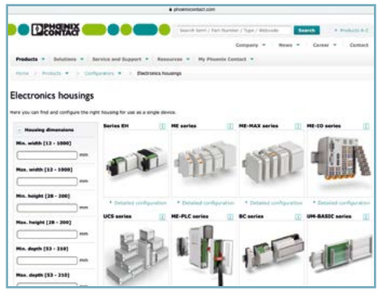
Configure your electronics housing online in just four easy steps

Intelligent combinatorics, interactive component selection, and real-time visualization in 3D: put together your electronics housings or accessories such as light guides, membrane keypads, or displays in just a few steps with the new online configurator. Simply select the desired housing series and size, add the appropriate connection technology, and you are done.

Web code: #0512

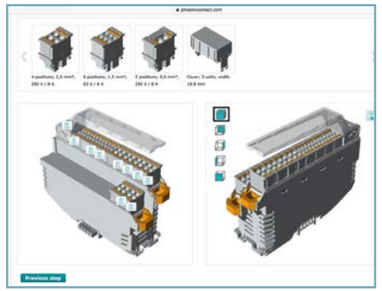
Your advantages

- ☑ Quick and easy configuration of all individual components
- ☑ Convenient operation using drag-and-drop, even on mobile end devices (iOS and Android)
- ☑ Export items as a bill of material or directly transfer them to your shopping cart and proceed to order
- ☑ Real-time visualization in 3D
- ☑ Download the PCB contours to fit the housing



Step 1

Select housing range



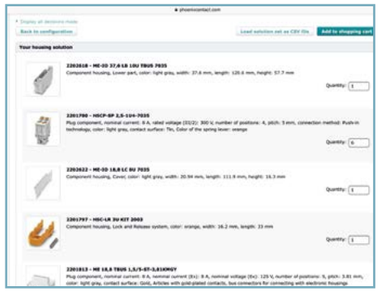
Step 2

Configure housing parts and connection technology



Step 3

Display or download complete module, including PCB shape



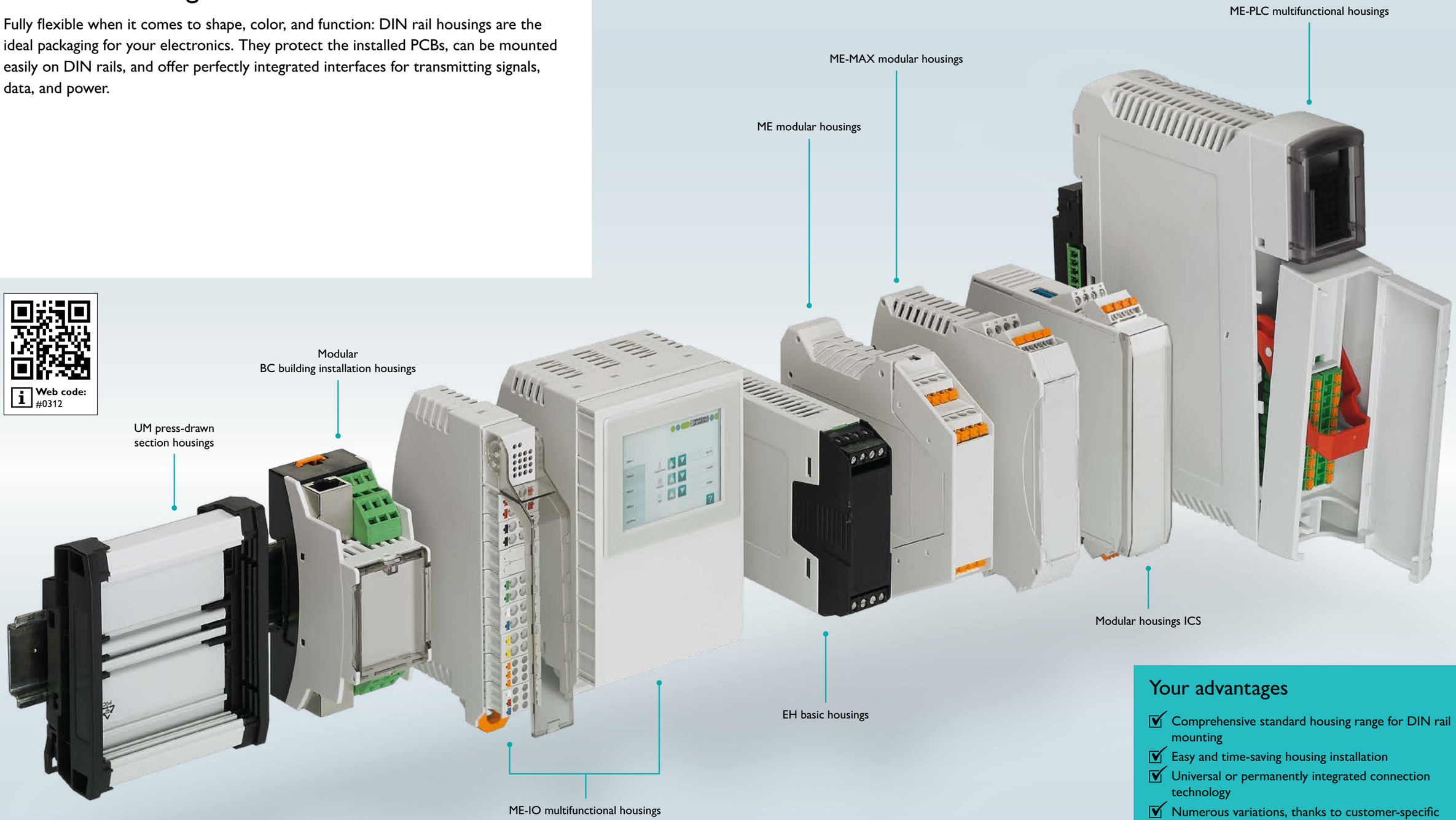
Step 4

Display bill of material and order directly

DIN rail housings

Fully flexible when it comes to shape, color, and function: DIN rail housings are the ideal packaging for your electronics. They protect the installed PCBs, can be mounted easily on DIN rails, and offer perfectly integrated interfaces for transmitting signals, data, and power.

Web code: #0312



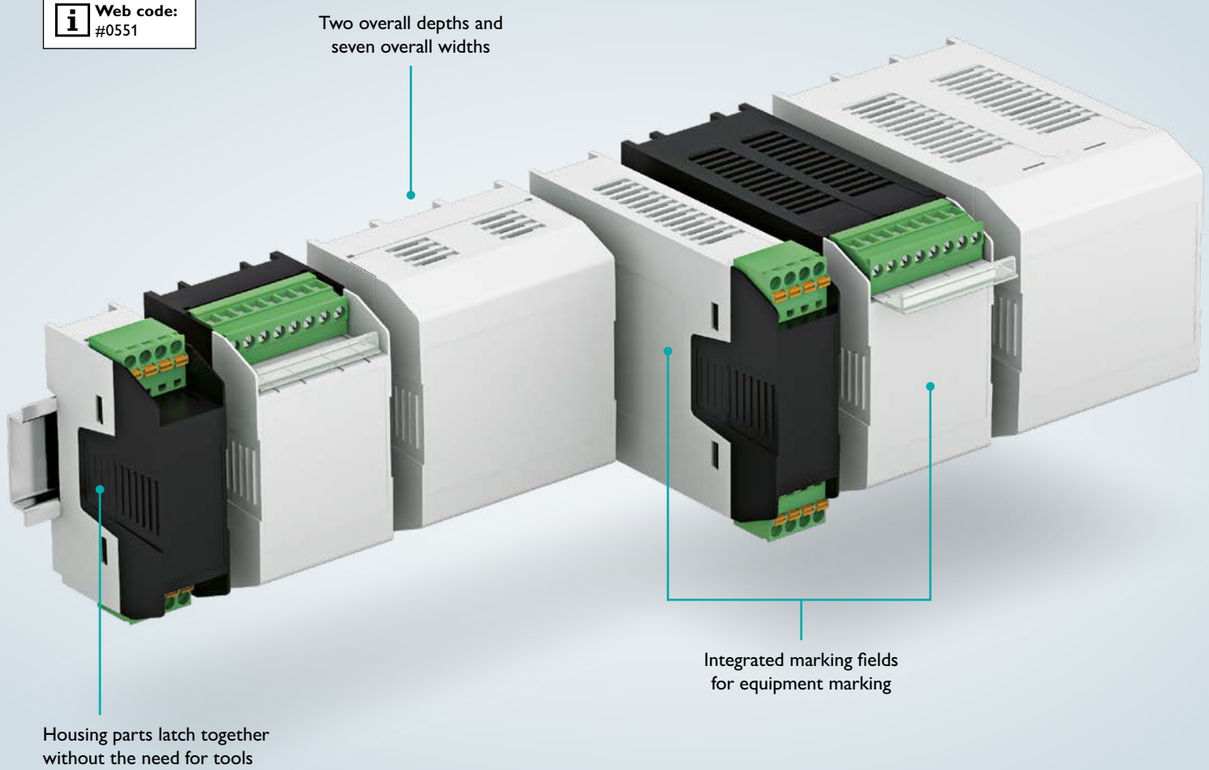
Your advantages

- ☑ Comprehensive standard housing range for DIN rail mounting
- ☑ Easy and time-saving housing installation
- ☑ Universal or permanently integrated connection technology
- ☑ Numerous variations, thanks to customer-specific printing and processing options for the entire product range

EH basic housings for universal applications

The basic housings of the EH series make it as easy as possible to design universal device applications. A range of seven overall widths, two depths, and three cover versions provide over 100 possible combinations.

Web code: #0551



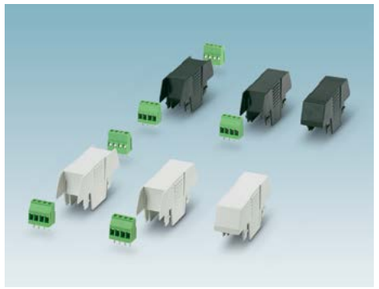
Your advantages



Complete flexibility, thanks to PCBs with horizontal, frontal, and orthogonal orientation to the front of the device



DIN rail or wall mounting for device fastening suited to the applications

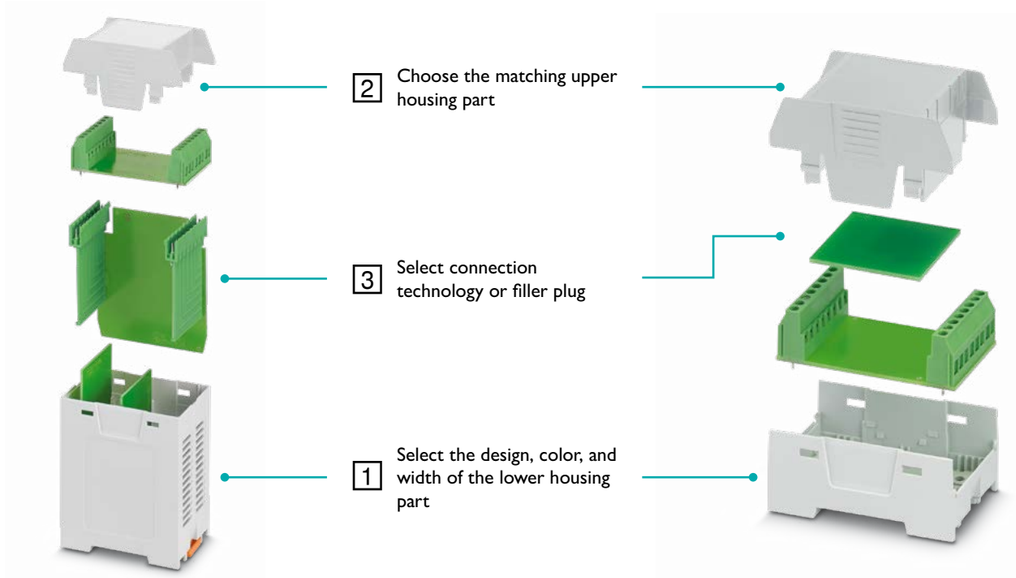


Three cover versions for individual PCB connections

Configure your product the way you want

Tall design

Flat design



Go directly to the online configurator

Just enter the web code into the search field on our website.

Web code: #0512

Housing color options (RAL color system):
7035 9005
Other colors available on request.

Learn more at **www.phoenixcontact.com/ehkit**

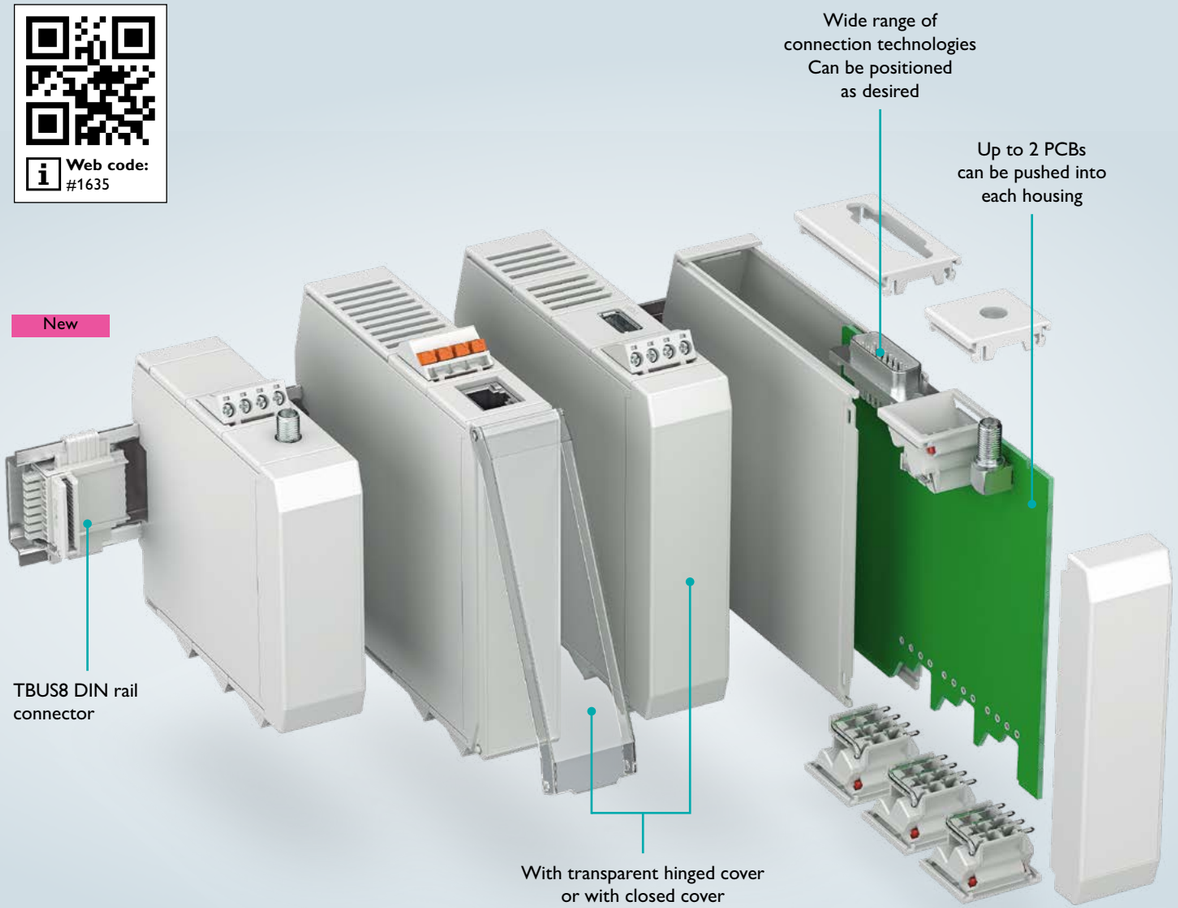
Test the EH series and contact your sales contact person (sample set: 52006670).

ICS modular housings with variable connection technology

The solutions made possible by the modular ICS housing system are as varied as the requirements for future-oriented automation devices. Take advantage of a housing system with graduated sizes, variable connection technology, and optional eight-position DIN rail connectors.

Web code: #1635

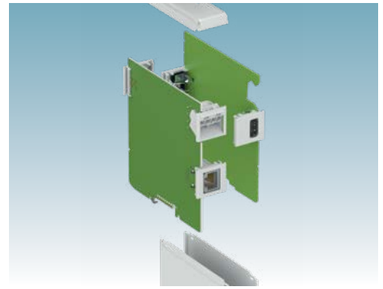
New



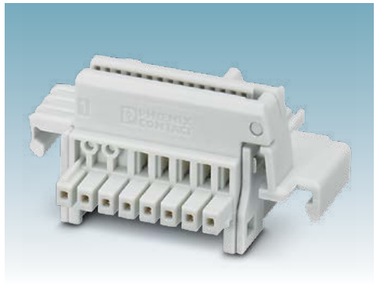
Your advantages



Standardized connections such as RJ45, USB, D-SUB, and antenna sockets as built-in components and touch-proof male header

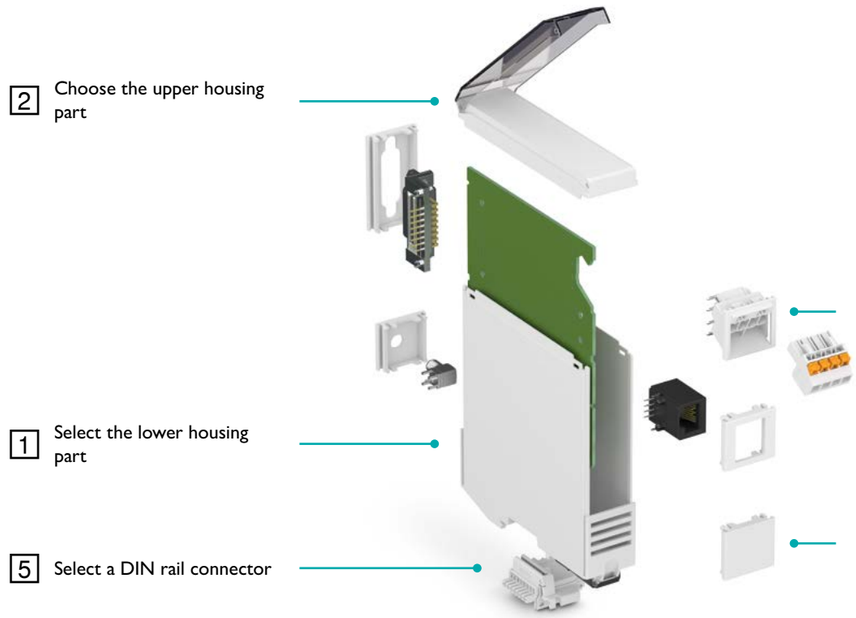


Optimum use of space by fitting up to two PCBs in the housing per basic housing width



8-position DIN rail connector with parallel and series contacts for easy module-to-module communication

Configure your product the way you want



Go directly to the online configurator

Just enter the web code into the search field on our website.

Web code: #0512

Housing color options (RAL color system):
7035 9005 5015
Other colors available on request.

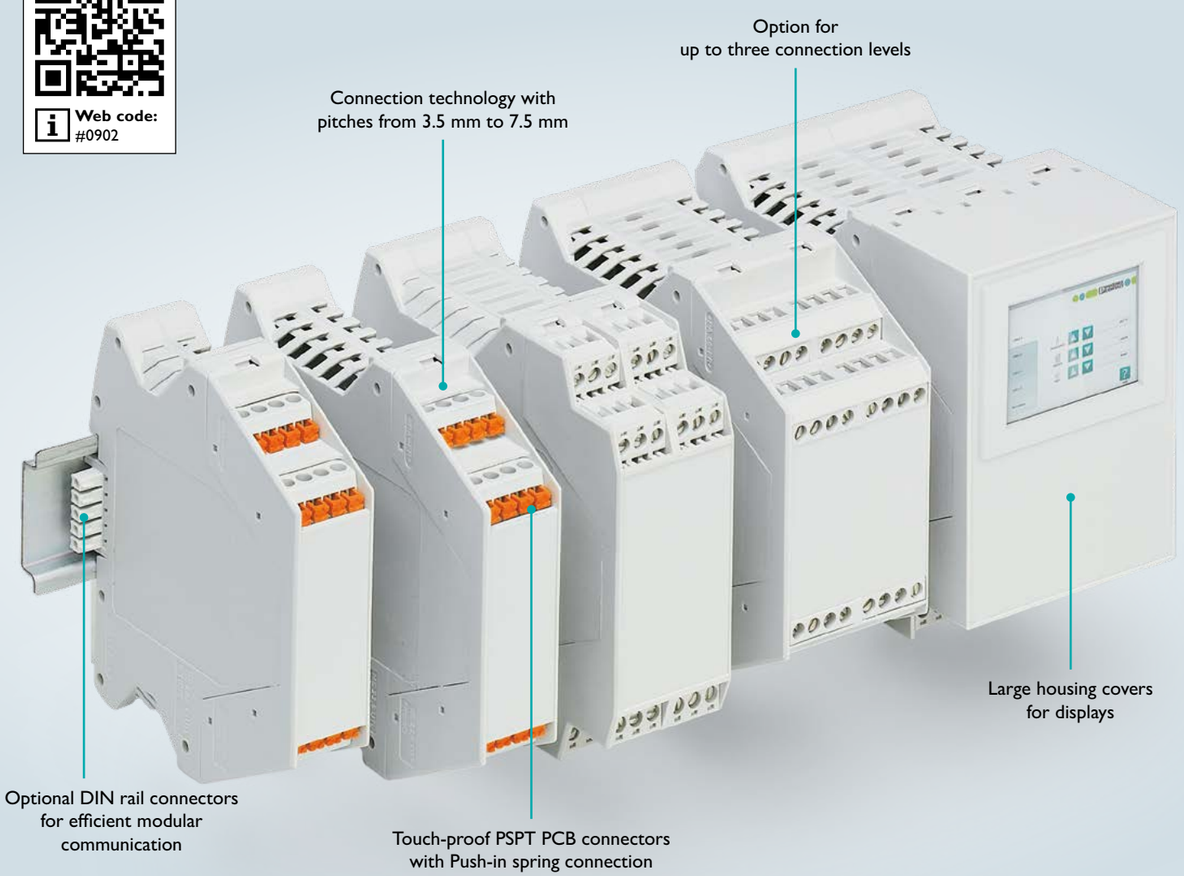
Learn more at **www.phoenixcontact.com/icskit**

Test the ICS series and contact your sales contact person (sample set: 1047838).

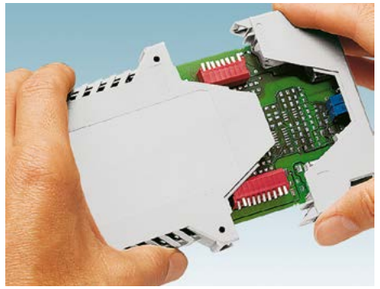
Modular ME housings in an easy-to-install cup shape

Modular electronics housings from the ME series transform assembled PCBs into easy-to-install electronics modules. Variable connection technology, bus connectors, and modularity ensure the right device design for every application. Diverse adaptation options expand the range of individual housing solutions.

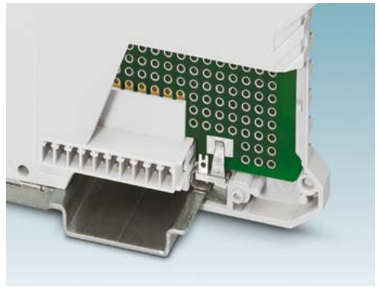
Web code: #0902



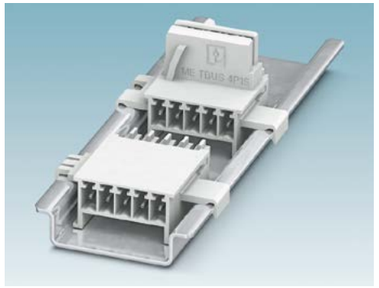
Your advantages



Cup principle for short installation times



Functional earth ground contact and bus connector integrated into the housing with up to 12 positions



Optional DIN rail connectors with five parallel contacts or four parallel contacts and one series contact for efficient module-to-module communication

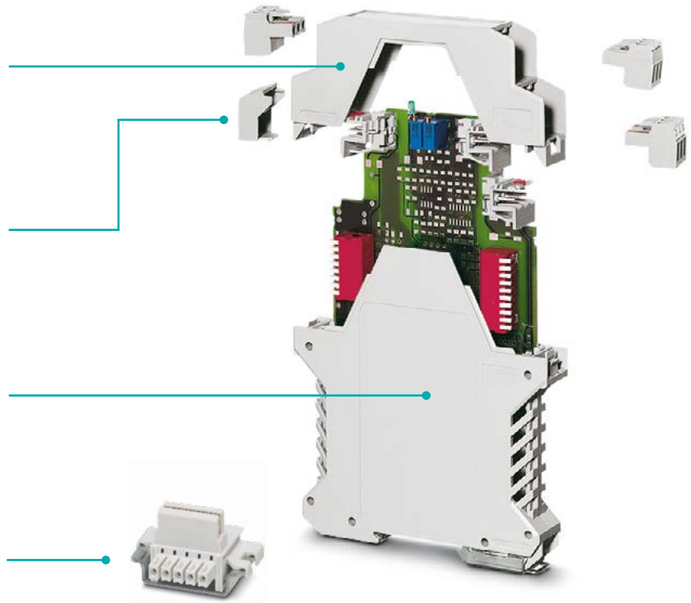
Configure your product the way you want

3 Choose the matching upper housing part

4 Select connection technology or filler plug (pp. 24 – 27)

1 Select the lower housing part

2 Add the DIN rail bus as an option



Go directly to the online configurator

Just enter the web code into the search field on our website.

Web code: #0512

Housing color options (RAL color system):

7035	6021	9005	5015	3001	1018
2003	7031	7032	9002	9010	8019

Other colors available on request.

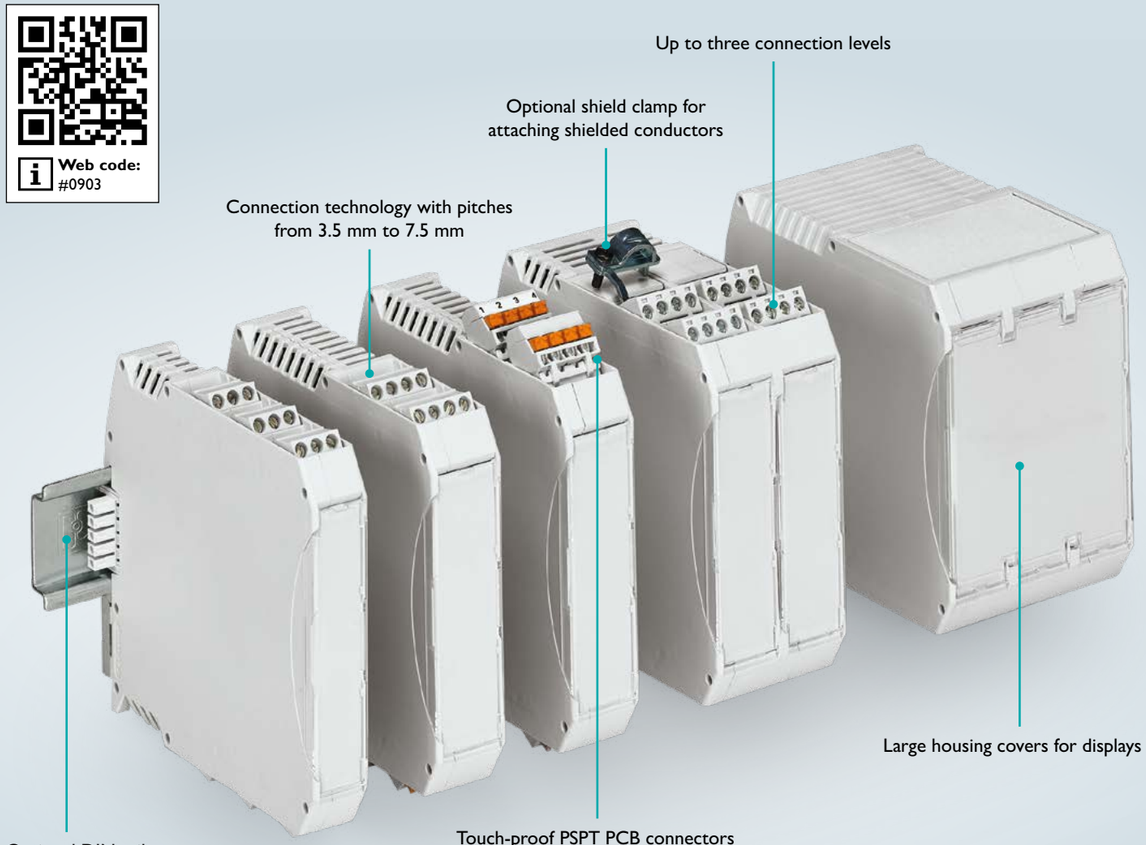
Learn more at **www.phoenixcontact.com/mekit**

Test the ME series and contact your sales contact person (sample set: 52005214).

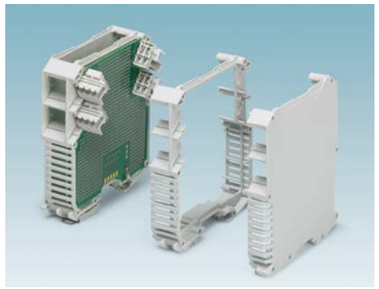
ME-MAX series modular housings in flexible modular design

Modular, functional, and design-oriented ME-MAX electronics housings for modern industrial electronics: variable connection technology, bus connectors, and modularity ensure the right device design for every application.

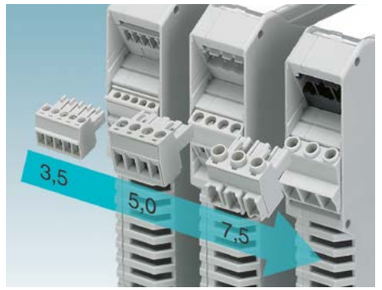
Web code: #0903



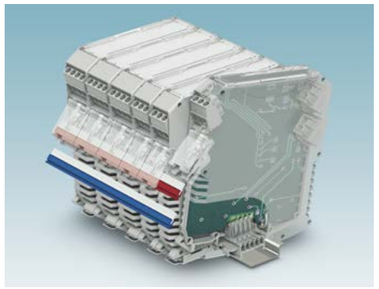
Your advantages



Modular housing design enables variable electronics solutions.



Tailor-made connection technologies for signal, data, and power transmission with various pitches



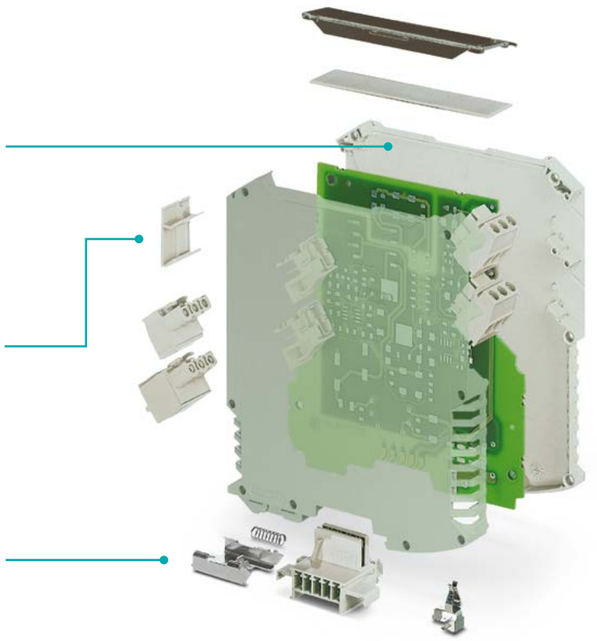
TBUS DIN rail cross connectors and PCO power connectors for module-to-module communication

Configure your product the way you want

1 Select the housing

3 Select connection technology or filler plug (pp. 32 – 35)

2 Add DIN rail bus and power connectors as an option



Go directly to the online configurator

Just enter the web code into the search field on our website.

Web code: #0512

Housing color options (RAL color system):

7035	6021	9005	5015	3001	1018
2003	7031	7032	9002	9010	8019

Other colors available on request.

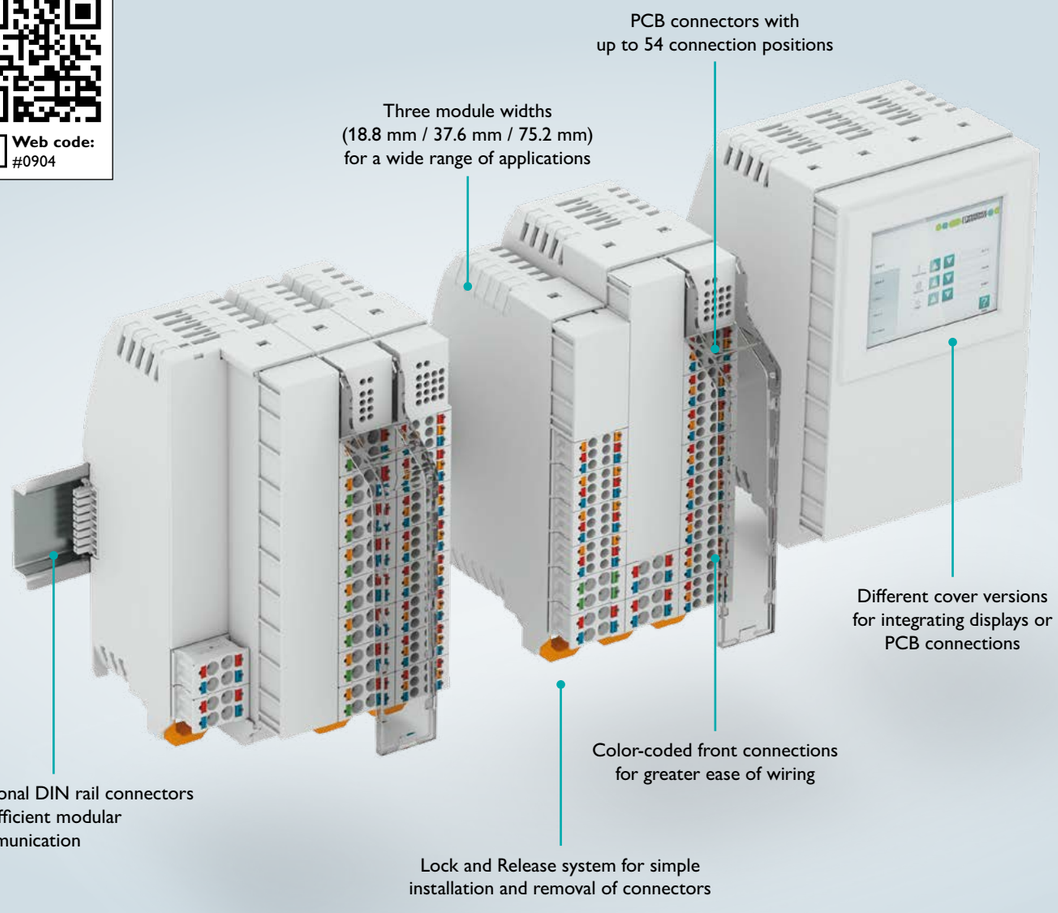
Learn more at **www.phoenixcontact.com/memaxkit**

Test the ME-MAX series and contact your sales contact person (sample set: 52005224).

Multifunctional ME-IO housings with modular front connection technology

The ME-IO housing system is particularly suitable for applications with a limited amount of installation space and high function requirements. Tailor-made electronics modules, such as controllers and I/O modules, can be easily assembled thanks to their modular design. The Push-in front connection technology and compact design enable the implementation of individual devices with up to 54 positions per overall width of 18.8 mm.

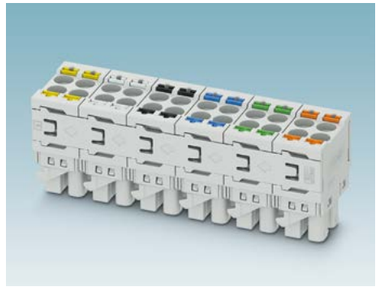
Web code: #0904



Your advantages



Convenient front connections for transmitting signals, data, and power



Block belts enable connector types to be grouped mechanically in any way in a confined space.



Additional marking option by means of inserts in transparent marking lid

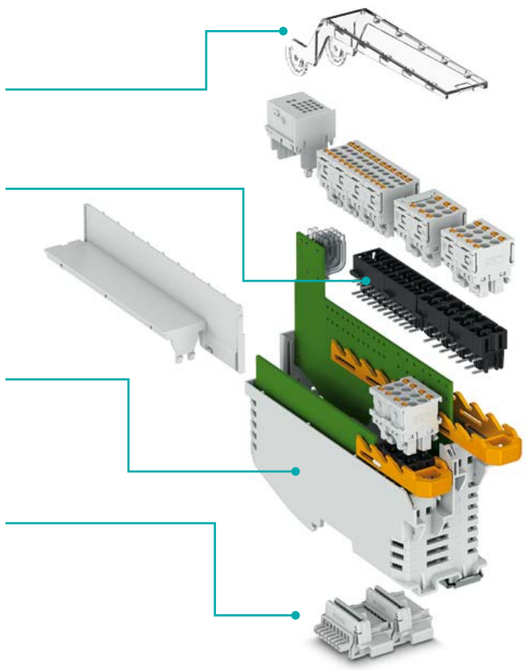
Configure your product the way you want

4 Select accessories

3 Choose the connection technology

2 Define the lower housing part

1 Specify DIN rail connector



Go directly to the online configurator

Just enter the web code into the search field on our website.

Web code: #0512

Housing color options (RAL color system):
7035 5015 1018
Other colors available on request.

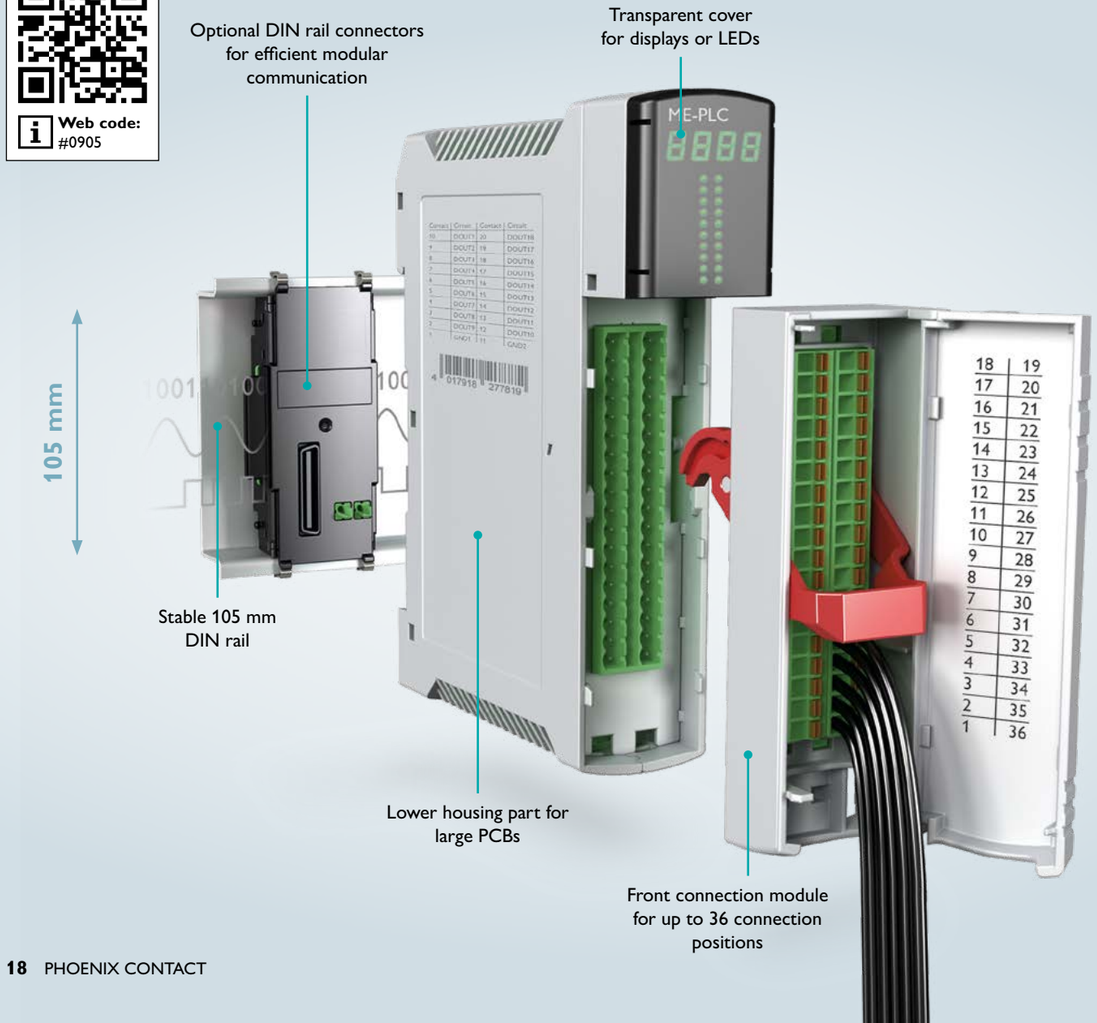
Learn more at **www.phoenixcontact.com/meiokit**

Test the ME-IO series and contact your sales contact person (sample set: 52005220).

ME-PLC multifunctional housings for complex controllers

Multifunctional electronics housings from the ME-PLC series are ideal for applications that require a large installation space and connection technology on the front. The housing system offers a large PCB mounting surface and efficient DIN rail connectors for a large range of applications.

Web code: #0905



Your advantages



Front connection module with lever technology for high connection convenience



Convenient transmission of data and power, thanks to DIN rail connectors with up to 50 positions



Universal cover design for freely selectable connection technology

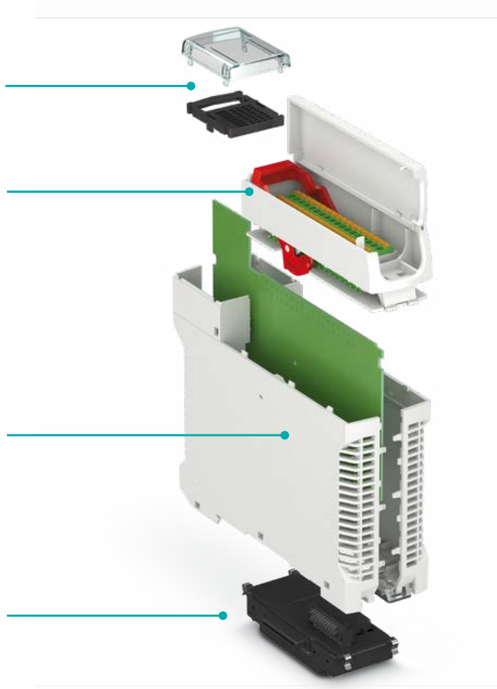
Configure your product the way you want

4 Select the housing termination

3 Select the front connection module

1 Select the lower housing part

2 Determine the DIN rail connector



Housing color options (RAL color system):
7035 9005 5015 1018
Other colors available on request.

Go directly to the online configurator

Just enter the web code into the search field on our website.

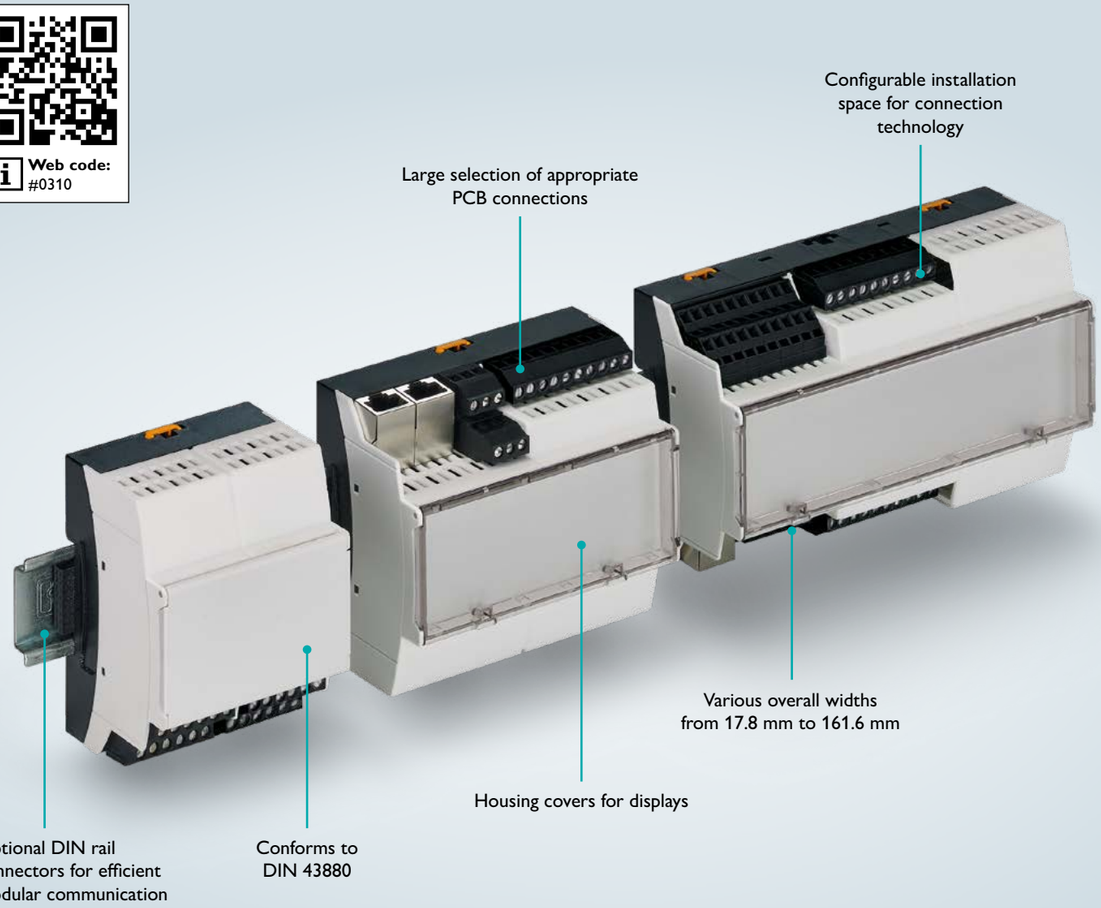
Web code: #0512

Test the ME-PLC series and contact your sales contact person (sample set: 52003927).

Modular BC building installation housings

Modular electronics housings of the BC series represent future-oriented applications in building automation. The electronics housings feature modern design, multi-sided PCB connections, and an efficient DIN rail connector. The BC housings are suited for direct wall mounting or for use in installation distributors in accordance with DIN 43880.

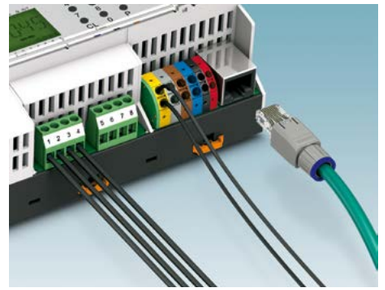
Web code: #0310



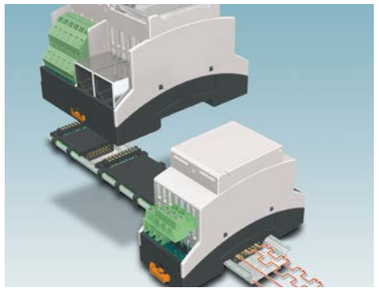
Your advantages



Standard-compliant housing and installation dimensions for use in installation distributors



Maximum flexibility, thanks to free choice of PCB connection technology and various overall widths

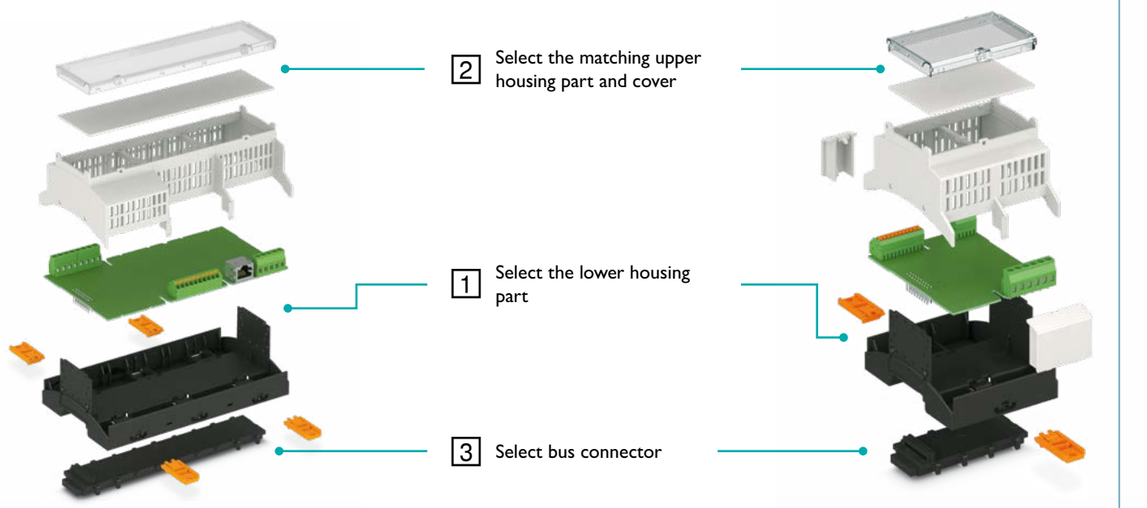


16-position DIN rail connector for series and parallel modular communication

Configure your product the way you want

BC modular

BC



Go directly to the online configurator

Just enter the web code into the search field on our website.

Web code: #0512

Housing color options (RAL color system):
7035 9005 5015 7042 3001 1018
Other colors available on request.

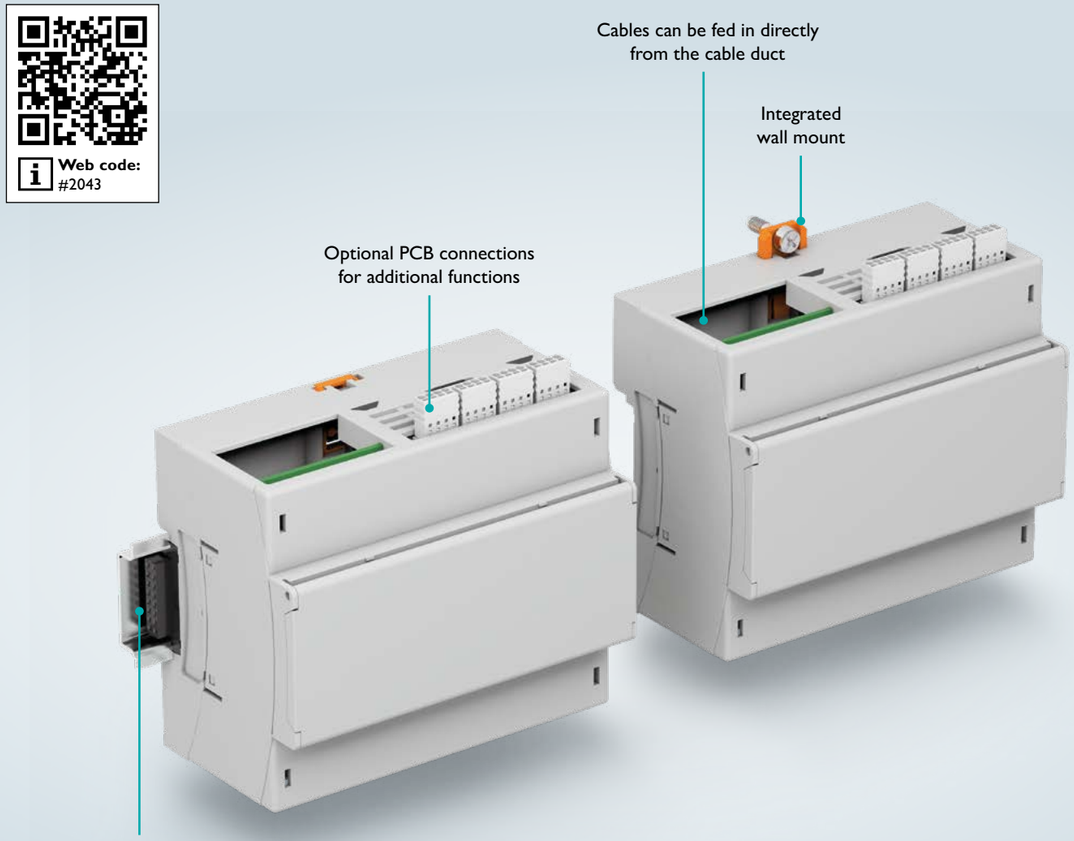
Learn more at **www.phoenixcontact.com/bckit**

Test the ME-BC series and contact your sales contact person (sample set: 52005225).

Modular RPI-BC electronics housings for Raspberry Pi applications

Modular electronics housings of the RPI-BC series are specially designed for integrating Raspberry Pi minicomputers. The housings are designed in accordance with DIN 43880, are alignable, and can be mounted on DIN rails or directly on the wall. Optional interfaces allow for simple function extension of the integrated single-board computer.

Web code: #2043



Your advantages



Individual function extensions due to optional interfaces and additional accessories



Quick, tool-free mounting by simply latching the housing elements



16-position DIN rail connector for series and parallel modular communication

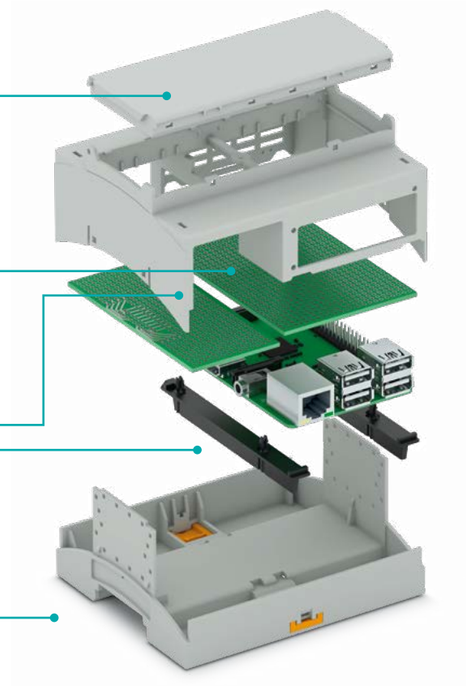
Configure your product the way you want

3 Select housing cover

4 Assemble accessories

1 Choose the upper housing part and PCB retainer

2 Select lower housing part



Go directly to the online configurator

Just enter the web code into the search field on our website.

Web code: #0512

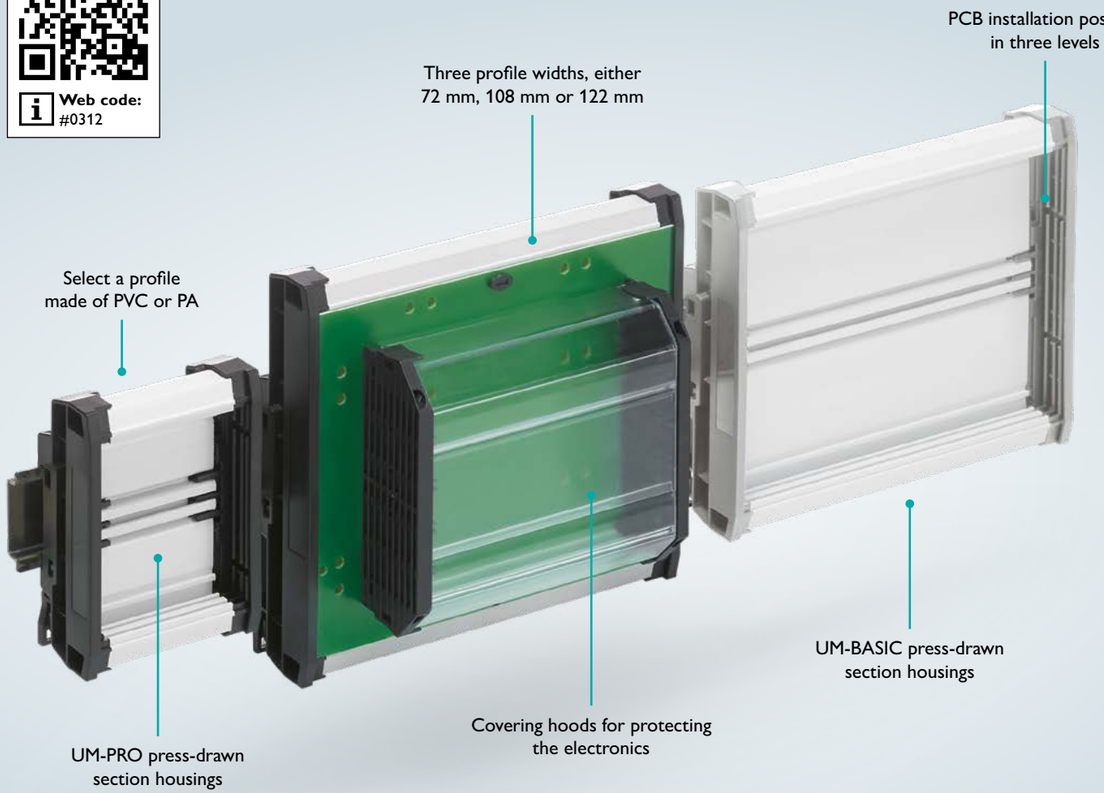
Housing color options (RAL color system):
7035
Other colors available on request.

Test the RPI-BC series and contact your sales contact person (sample set: 52007812).

UM press-drawn section housings for individual PCB sizes

Press-drawn section housings of the UM-BASIC and UM-PRO series allow for individualized installation dimensions and outstandingly simple assembly. The open design principle is ideally suited for flexible and large-scale device concepts.

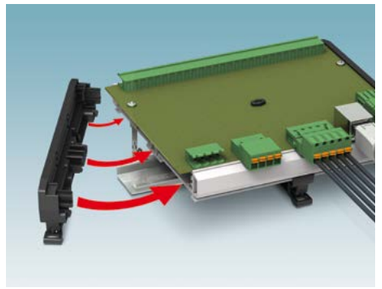
Web code: #0312



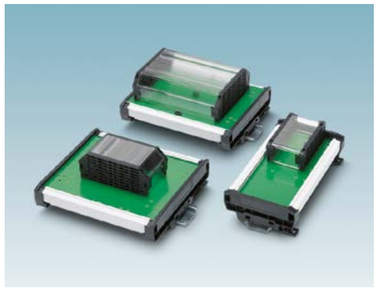
Your advantages



Housings made of PVC (UM-BASIC) or PA (UM-PRO) for application temperatures up to +50°C or up to +100°C



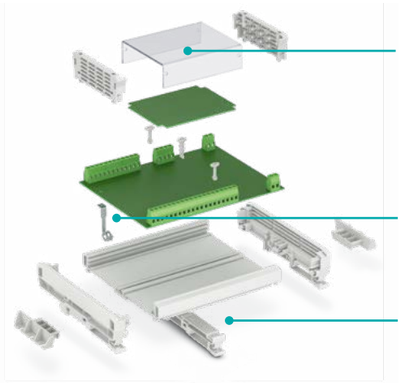
Easy device mounting method, thanks to snap-mount principle (the sides are fixed without the aid of tools)



High degree of flexibility, thanks to freely positionable covering hoods

Configure your product the way you want

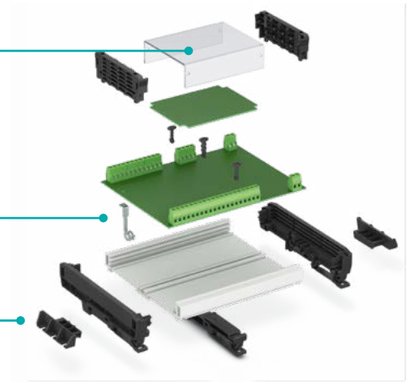
UM-BASIC



Housing color options (RAL color system):
7035
Other colors available on request.

Test the UM-BASIC series and contact your sales contact person (sample set: 52005309).

UM-PRO



Housing color options (RAL color system):
7035
Other colors available on request.

Test the UM-PRO series and contact your sales contact person (sample set: 52005226).

Go directly to the online configurator

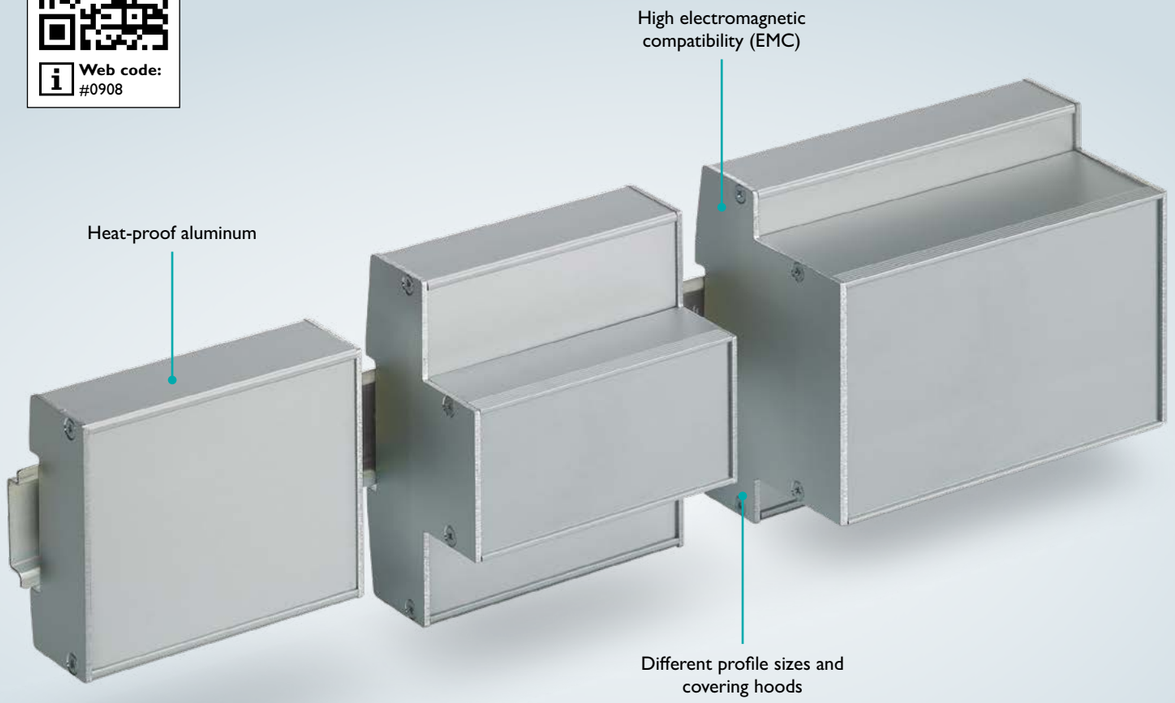
Just enter the web code into the search field on our website.

Web code: #0512

UM-ALU press-drawn section housings for EMC-sensitive electronics

Made entirely of aluminum, the UM-ALU housing system offers a high degree of electromagnetic compatibility (EMC) and ensures full flexibility in the assembly process. The housings are especially suited for industrial environments with high electromagnetic interference potential.

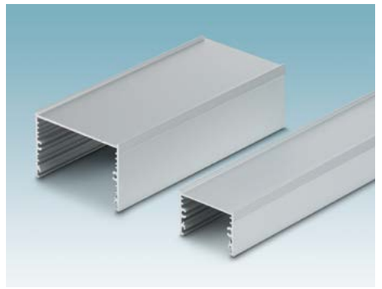
Web code: #0908



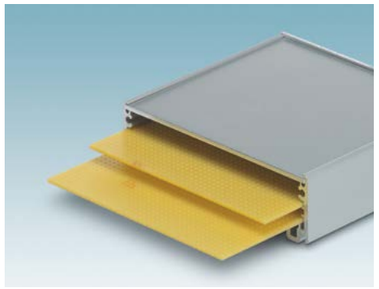
Your advantages



Heat-proof aluminum for optimal protection of sensitive electronics

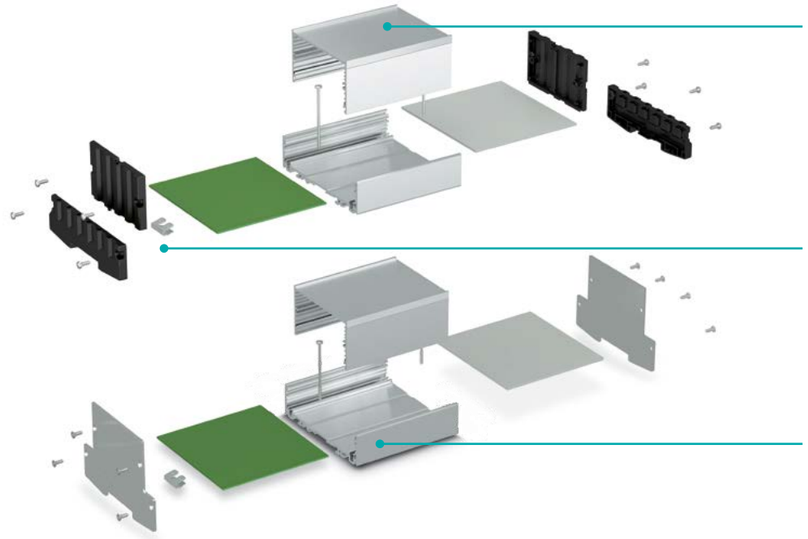


Different profile sizes and covering hoods for electronics assemblies suited to the application



PCB installation on up to seven levels for flexible electronics solutions

Configure your product the way you want



Go directly to the online configurator

Just enter the web code into the search field on our website.

Web code: #0512

Housing color options (RAL color system):
■ 9006
Other colors available on request.

Test the UM-ALU series and contact your sales contact person (sample set: 52002012).

Field housings

Whether as stationary display units, mobile operator panels, or embedded systems – field housings from Phoenix Contact provide a high degree of protection ideal for countless applications in building, industrial or process automation.

Web code: #0317



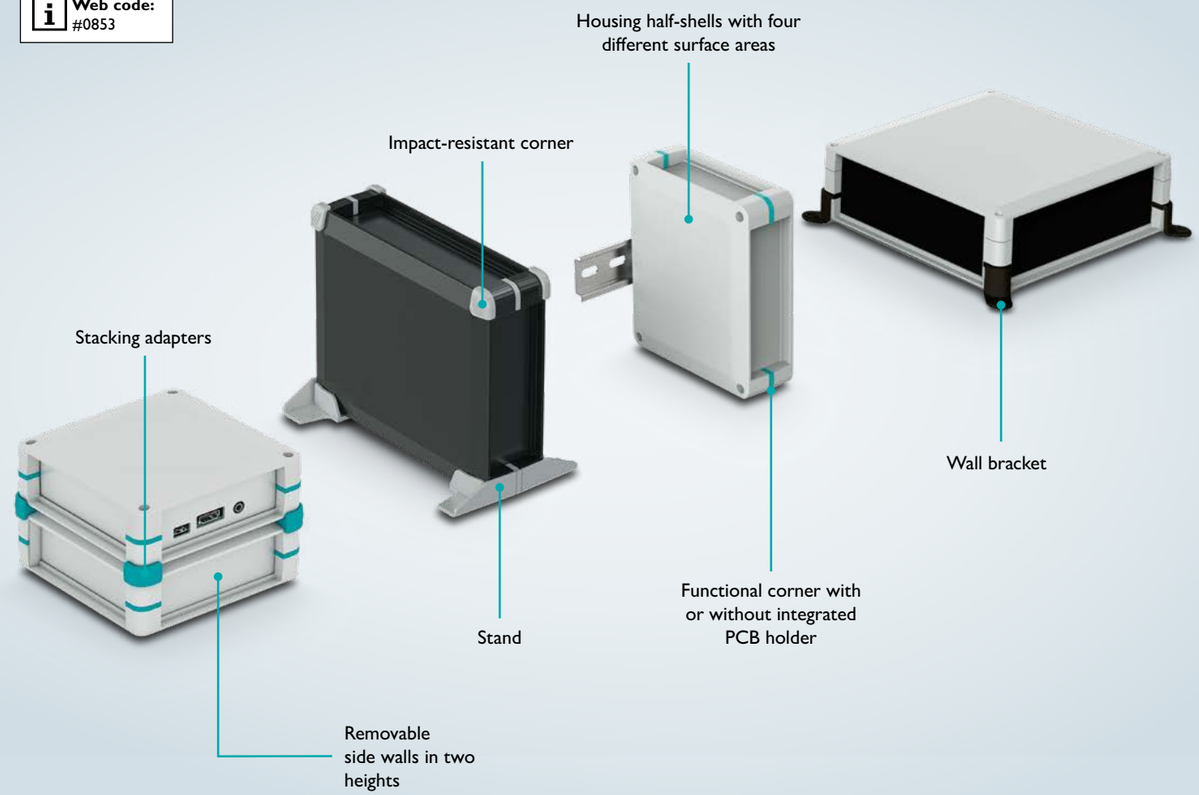
Your advantages

- Wide range of applications, thanks to modular housing systems
- High degree of protection, up to IP69K, for use in harsh ambient conditions
- Proven PCB connection technology permits practical customization
- Customer-specific versions for unique device designs

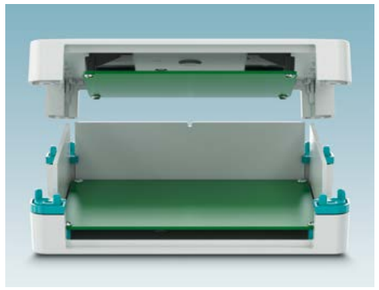
UCS universal housings for embedded systems

Universal housings from the UCS series are the ideal solution for embedded systems. The IP40 housings reliably protect printed-circuit boards in standard form factors from external influences. Removable side panels enable modular housing solutions in individual heights. The UCS series is characterized by flexible PCB mounting and a wide range of possible applications.

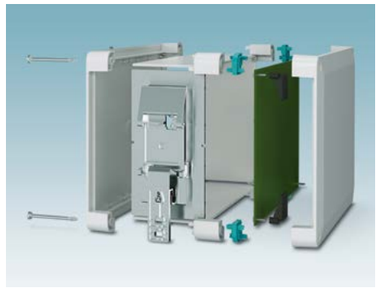
Web code: #0853



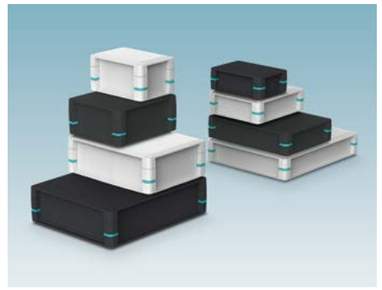
Your advantages



Integrated or flexible PCB mount for variable electronics solutions



Even more universal deployability, thanks to DIN rail adapter and other accessories



Modular system for highest adaptivity and simple storage

Configure your product the way you want

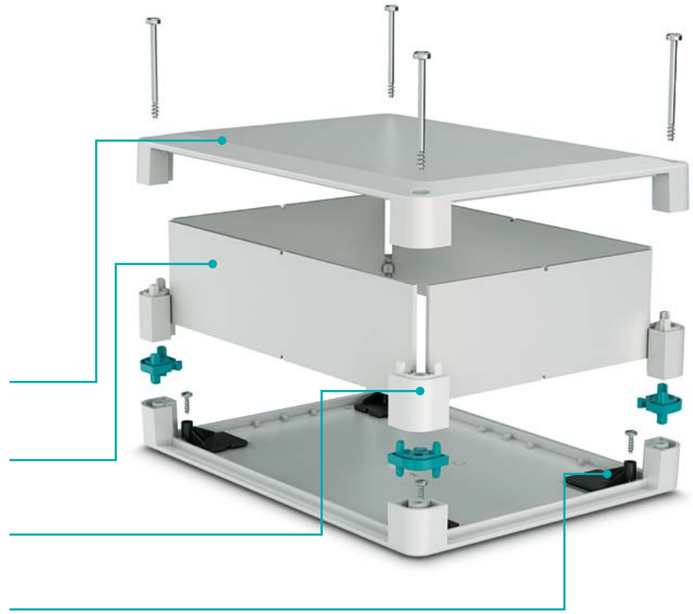
Version 1

1. Select the maximum PCB dimensions or form factor
2. Select the depth and color of the complete housing
3. Select accessories (pp. 76 – 77)

or

Version 2

1. Select the size and color of the housing half shell
2. Select the size and color of the side walls
3. If applicable, select the height adapter in the desired color
4. Select the corner inserts and accessories



Go directly to the online configurator

Just enter the web code into the search field on our website.

Web code: #0512

Housing color options (RAL color system):
7035 9005

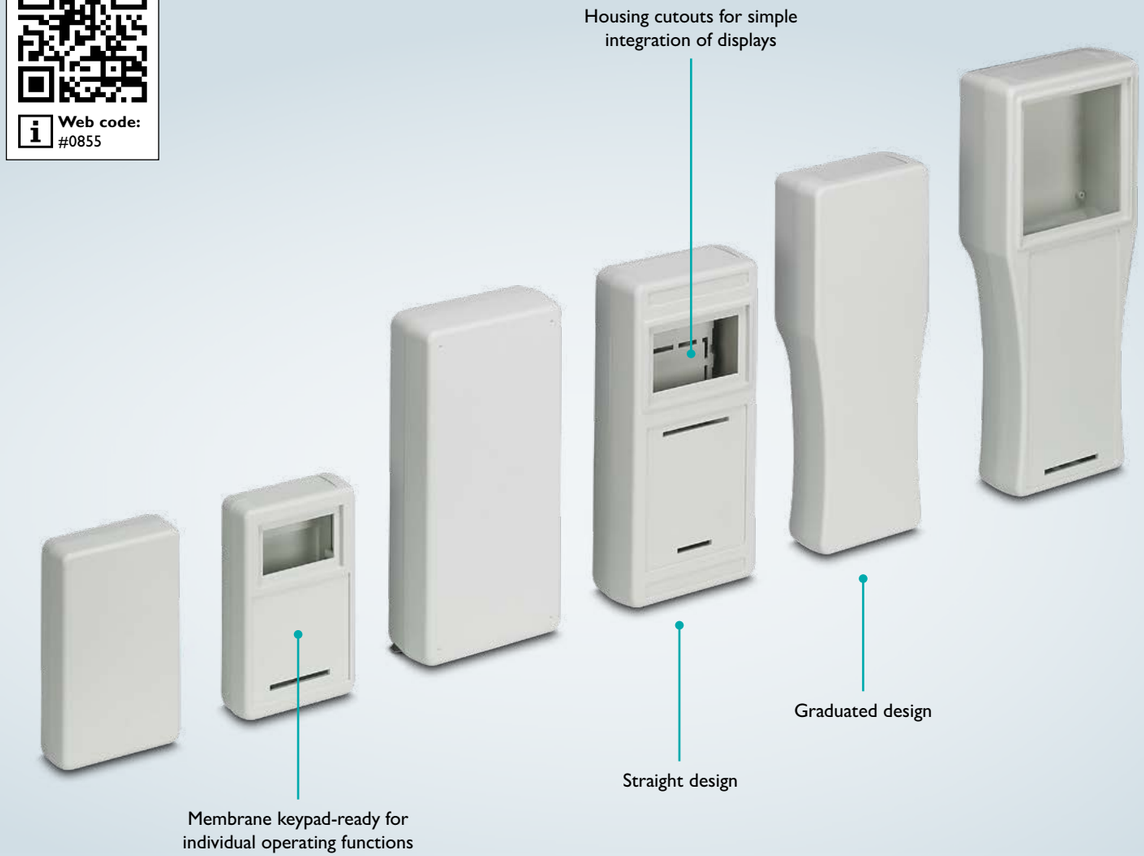
Accessories:
7035 5018 9005
Other colors available on request.

Test the UCS series and contact your sales contact person (sample set: 52008272).

HCS handheld housings for portable devices

Ergonomic handheld housings from the HCS series are ideal for mobile operator panels for measuring and inspection technology and for scanners or identification devices. The housings are made from stable ABS plastic and can be used in logistics, distribution, and process technology.

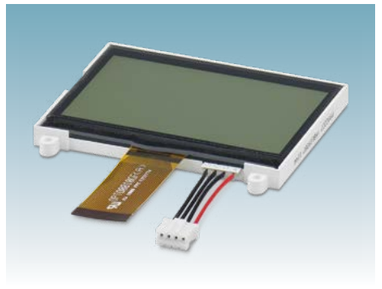
Web code: #0855



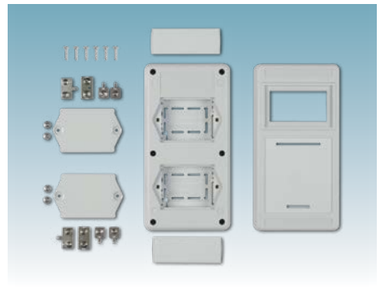
Your advantages



Simple integration with perfect-fit membrane keypads, available to fit custom specifications



Easy integration of displays



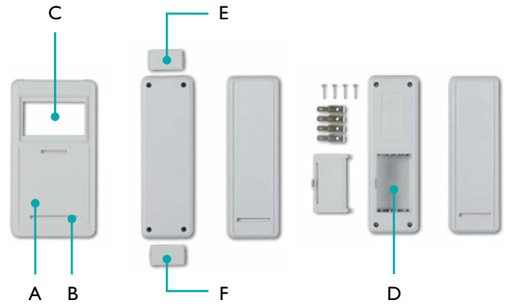
Standard versions for different device interfaces and for power supply

Configure your product the way you want

1 Select housing size



2 Specify the version/type



Go directly to the online configurator

Just enter the web code into the search field on our website.

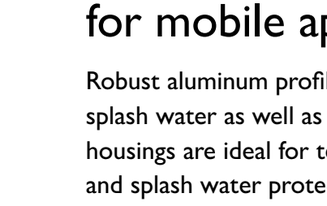
Web code: #0512

Housing color options (RAL color system):
7035
Other colors available on request.

HC-ALU profile housings for mobile applications

Robust aluminum profile housings from the HC-ALU series protect electronics from splash water as well as thermal and mechanical influences in the field. These field housings are ideal for temperature ranges from -40°C to +70°C and provide IP65 dust and splash water protection in accordance with DIN EN 60529.

Web code: #0861





Aluminum press-drawn section

Soft-edge design

Recessed front for flush integration of membrane keypads

Dust and splash water protection in accordance with the IP65 degree of protection

Your advantages



Reliable use in demanding conditions, thanks to the robust, split aluminum profile for lightweight modules

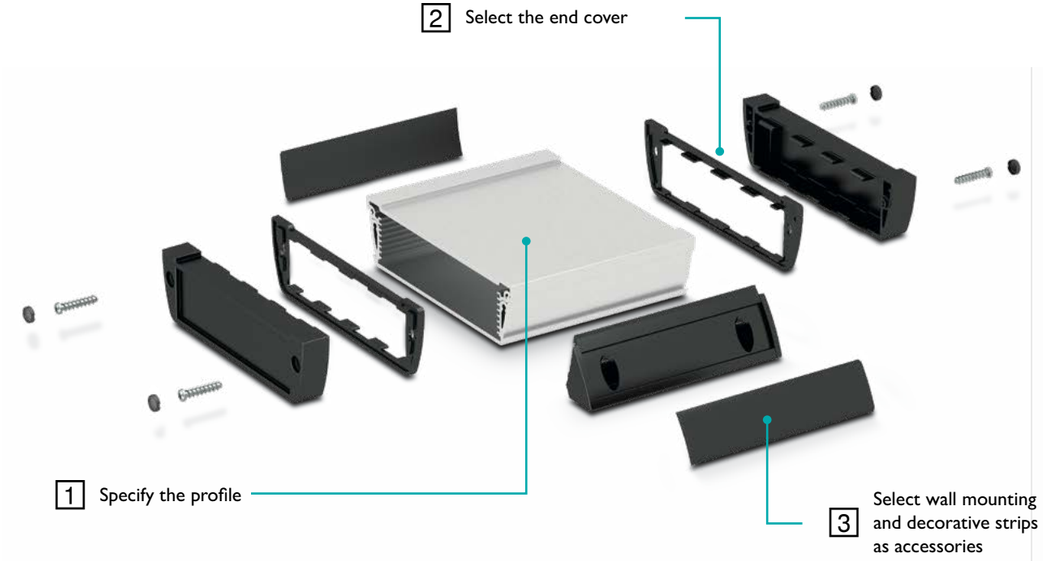


Versatile deployability, thanks to the integration of displays or custom membrane keypads as well as a front plate



Wall mounting for stationary applications

Configure your product the way you want



Go directly to the online configurator

Just enter the web code into the search field on our website.

Web code: #0512

Test the HC-ALU series and contact your sales contact person (sample set: 52002014).

ECS outdoor housings for harsh conditions

Robust outdoor housings from the ECS series are the ideal solution for protecting sensitive electronics used in indoor and outdoor applications from dust, dirt, and water. Thanks to the IP65 to IP69 degrees of protection and a wide temperature range of -40°C to +100°C, the housings are ideal for challenging ambient conditions.

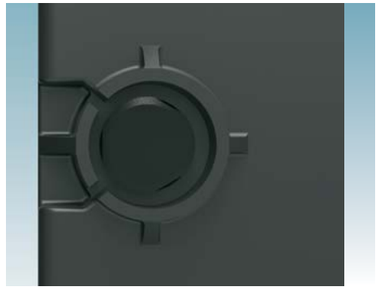
Web code: #0857



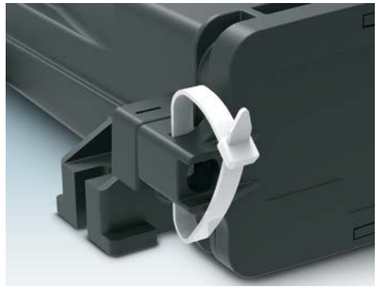
Your advantages



Integrated interlock to protect against unintentional release of the PCB

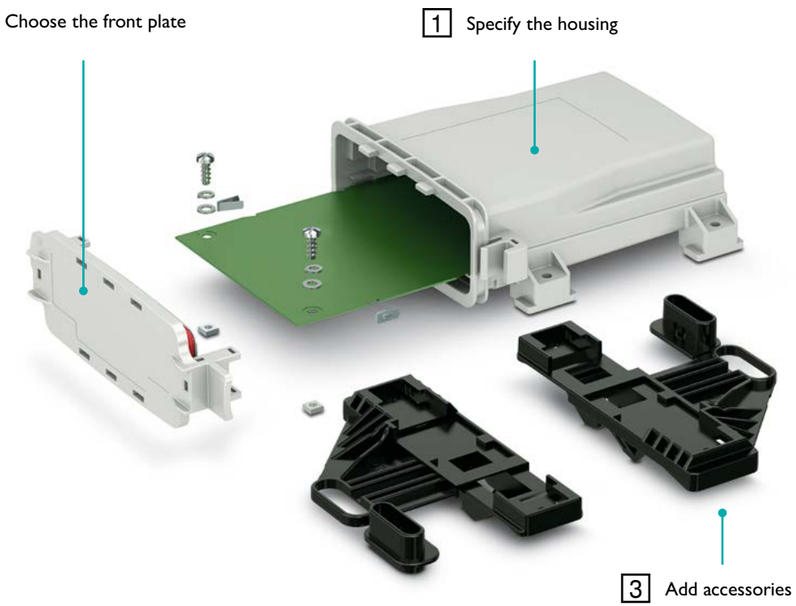


Optional pressure compensation membrane for vented housing designs



Protection against tampering, thanks to a simple lead seal

Configure your product the way you want



Go directly to the online configurator

Just enter the web code into the search field on our website.

Web code: #0512

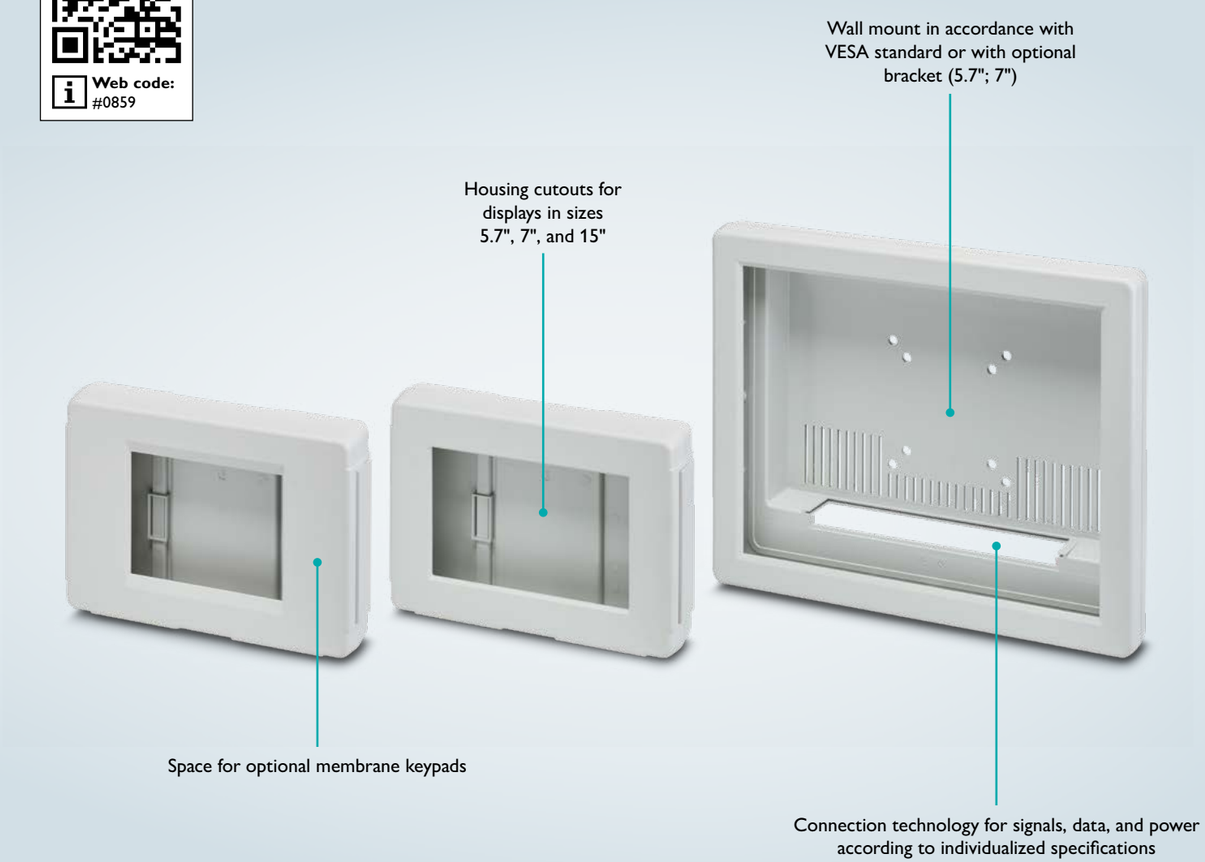
Housing color options (RAL color system):
■ 9005 ■ 7042
Other colors available on request.

Test the ECS series and contact your sales contact person (sample set: 52008541).

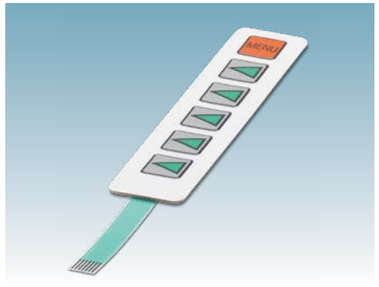
DCS display carrier system for industrial applications

Display carriers from the DCS series integrate TFT displays of different sizes. They reliably protect mobile and stationary electronics from mechanical effects as well as dust and splash water. Optional membrane keypads and displays help you implement human-machine interfaces for data input and display that are suited to your application.

Web code: #0859



Your advantages



Membrane keypads fit perfectly, also available to fit custom specifications



Easy integration of displays, thanks to coordinated mounting kits



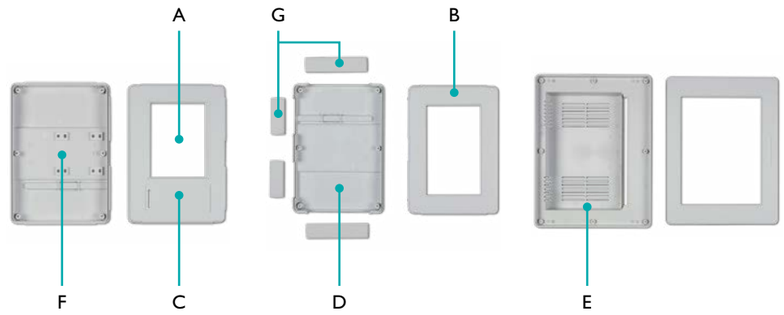
Standard versions for different device interfaces

Configure your product the way you want

1 Select the display size



2 Specify design



Go directly to the online configurator

Just enter the web code into the search field on our website.

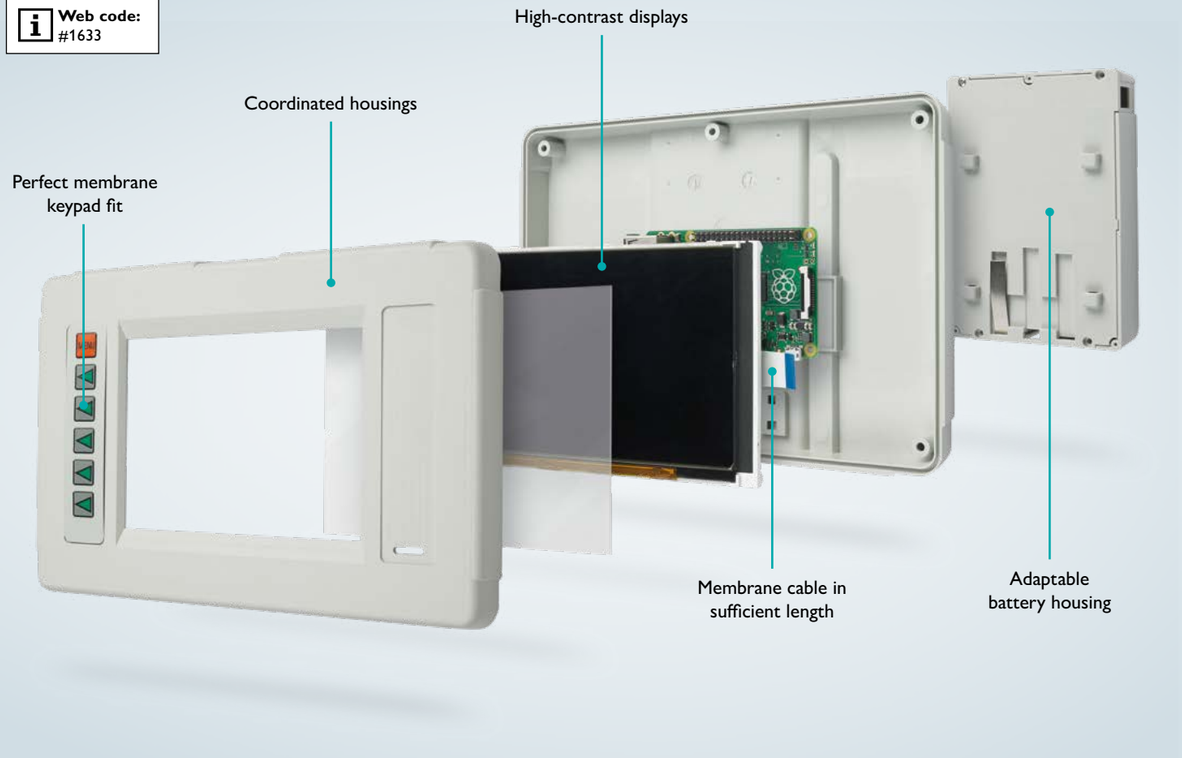
Web code: #0512

Housing color options (RAL color system):
7035
Other colors available on request.

HMI components and accessories

Highly automated production processes require user-friendly interfaces between the operator and the machine. Displays, membrane keypads, and light guides turn various electronics housings into functional display and operating elements.

Web code: #1633



Accessories for electronics housings



UTA DIN rail adapters

Web code: #1637



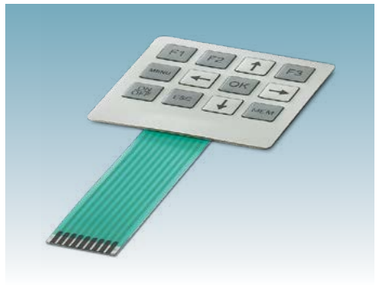
Light guides for status and diagnostic indicators

Web code: #1638



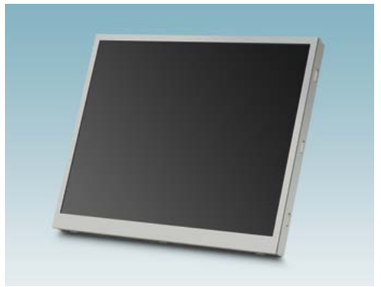
Metal and plastic base latches

Web code: #2081

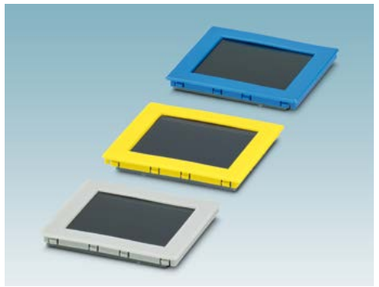


Membrane keypads

Web code: #1640



TFT displays



Display holders in different color versions

Web code: #1639

Kits

Web code: #0686

1 BC 107,6 Designer Kit

	Description	Type	Order No.
	Contains BC 107,6 housing, PCB terminal blocks (MKDS), and breadboard/prototype PCB For more information visit **www.phoenixcontact.com/bckit**	BC Designer Kit	1036755

2 ME MAX 22,5 Designer Kit

	Contains ME MAX 22,5 housing, PCB plugs and headers (MSTB), and breadboard/prototype PCB For more information visit **www.phoenixcontact.com/memaxkit**	ME MAX Designer Kit	1037058

3 ME 22,5 Designer Kit

	Contains ME 22,5 housing, PCB plugs and headers (MSTB and PSPT), and breadboard/prototype PCB For more information visit **www.phoenixcontact.com/mekit**	ME Designer Kit	1037061

4 EH Designer Kit

	Contains EH 45 Flat housing, PCB terminal blocks (MKDS 3), and breadboard/prototype PCB For more information visit **www.phoenixcontact.com/ehkit**	EH Designer Kit	1036922

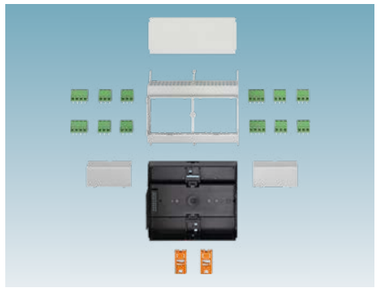
5 ME-IO Designer Kit

	Contains ME-IO 18,8 housing, PCB plugs and headers (HSC), and breadboard/prototype PCB For more information visit **www.phoenixcontact.com/meiokit**	ME-IO Designer Kit	2203063

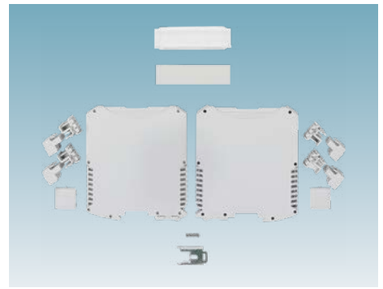
6 UM-BASIC 108 Development Kit

	Contains UM-BASIC 108 mm wide, 10 cm long profile and PCB terminal blocks (SMKDS)	UM-BASIC 108 100MM DEV-KIT KMGY	2202528
	Breadboard/prototype PCB	UM-BASIC 108/32 DEV-PCB	2202551

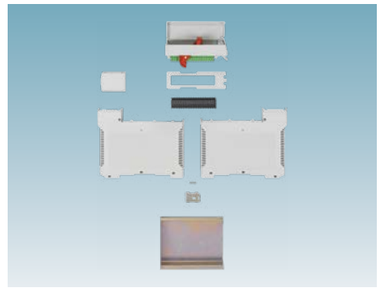
Development kits for prototype building and short-run production [1)]



1 BC 107,6



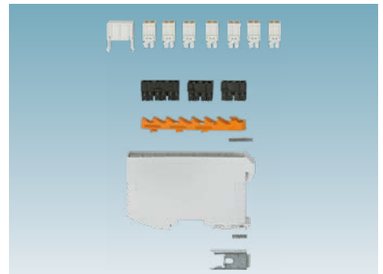
2 ME-MAX 22,5 2-2



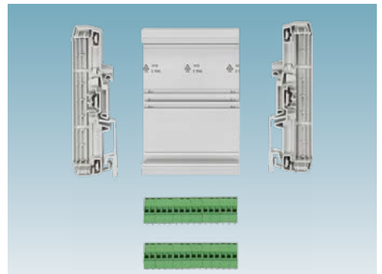
3 ME-PLC 40



4 EH 45 FLAT



5 ME-IO 18,8



6 UM-BASIC 108 100MM

[1)] PCB with hole pattern
Development kit contains housing and connection technology for an operational module
Specific bus connectors available

Services for customizing your housings

Phoenix Contact creates customized housings with matching connection technology for you, regardless of whether you use a screw or spring connection. We offer professional support, from the modification of a standard product all the way to developing a completely new product.

Web code: #0685



Your options for customization



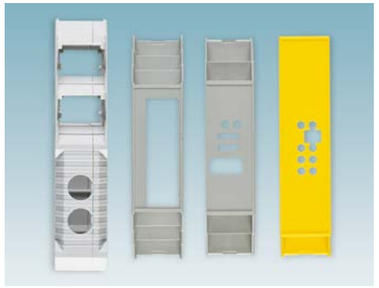
Many color versions

Electronics housings can also be produced in colors other than the standard color, either completely or as a combination of different colored housing parts. Our ability to reproduce your own company color maximizes the brand recognition factor.



Mechanical processing

State-of-the art milling machines can create customer-specific machined holes on each side of the housing. This eliminates additional production steps and related logistical procedures for you. Your storage requirements are limited to the installed components.



Tool modification

For large volumes, injection molding is often a more cost-effective approach than mechanical finishing. We offer you the option of producing customized housing components directly from an original mold.



Pad printing

Pad printing is ideal for cost-effective printing of logos, texts, and circuit diagrams. Marking of terminal points is also possible for fast and reliable wiring.



Screen printing

Screen printing is suitable for space-filling and multicolored printing, particularly if brilliant colors or color grades are required. For transparent original materials, items can be cut out during printing, for example for LEDs.



Laser marking

Particularly for highly stressed surfaces in rough environments. The color change is etched into the surface by the laser. The laser marking is suitable for bar codes, data matrix codes, plain text for numbering and QR codes.

New customer-specific product developments

Do you have specific requirements and need a new product tailored to your needs? We will support you with our expertise in the areas of development, production, and quality assurance to implement your product. In doing so, we rely on our proven product technology as well as our development processes that have proven their worth for many years.



Your advantages

- ☑ Expert consultation on product requirements
- ☑ Detailed design of your preferred concept
- ☑ Development of the ideal production concept
- ☑ Product qualification at our in-house laboratory
- ☑ Certification of the solution for your application
- ☑ Targeted project management up to the start of series production

The path to your new customer-specific development



Concept development

We work together with you to determine the requirements for your product. We address challenges early on and guarantee an efficient development.



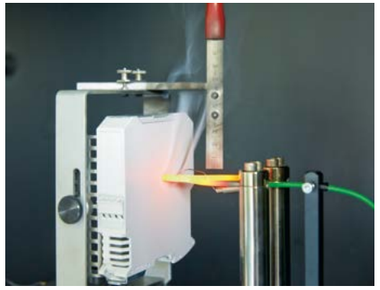
Design

Preliminary clarification is followed by designing and implementing prototypes. The knowledge from prototyping is incorporated into the later solution.



Production setup

We use our global network to find the ideal location for your requirements. You get the highest product quality, thanks to ideal manufacturing performance.



Quality assurance

We carefully test your product in all manufacturing phases. We ensure this with intensive testing before the series release and with production-related checks.



Series production

We produce your products according to your requirements and the latest quality standards. Series production is lucrative for you even for low quantities.



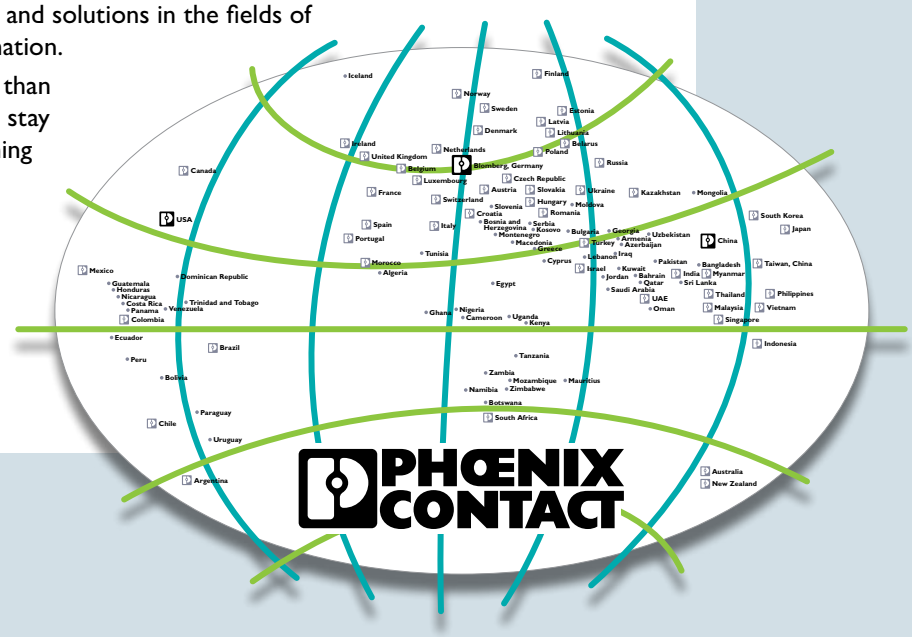
Logistics

Efficient logistics for your satisfaction: we deliver the finished product to you on schedule and according to your wishes.

Ongoing communication with customers and partners worldwide

Phoenix Contact is a global, market leader based in Germany. Our group is known for its future-oriented components, systems, and solutions in the fields of electrical engineering, electronics, and automation.

With a global network reaching across more than 100 countries and 17,400 employees, we can stay in close contact with our customers, something we believe is essential to success. The wide variety of our innovative products makes it easy for our customers to find future-oriented solutions for multiple applications and industries. We especially focus on the fields of energy, infrastructure, process, and factory automation.



You will find our complete product range at:

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Phoenix Contact USA, Inc.
P.O. Box 4100
Harrisburg, PA 17111-0100
Phone: 800-888-7388
717-944-1300
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Fax: 717-944-1625
E-mail: info@phoenixcon.com
Website: www.phoenixcontact.com

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Fax: +52 55 55310194
E-mail: ventas@phoenixcontact.com.mx

PHOENIX CONTACT
INSPIRING INNOVATIONS

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