

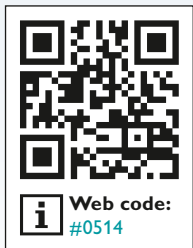


Electronics housing

Product overview 2022

Housing solutions for your device development

Phoenix Contact offers reliable solutions for the development of complex electronic devices. We will support you optimally as our customer so that you can focus on developing software and electronics. To do so, we offer you individual consultation and many years of expertise in providing housing systems and development-supporting services.



Housing systems

We have the right housing system for the respective application, both for the DIN rail and in the field, and also offer fully integrable components for the interfaces to the application environment.

More information starting on page 4



Advice and service

For the development of complex electronic devices, efficient project execution is necessary above all else. To provide our customers with optimum support, we offer services such as thermal simulations for the individual design of housings.

More information
starting on page 6



Customization

Phoenix Contact builds custom and tailor-made housings for you through various offers. We offer professional support, from the modification of a standard product all the way to developing a completely new product.

More information starting on page 10

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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.

i Web code: #1234 (example)

Or use the direct link:
phoenixcontact.net/webcode/#1234

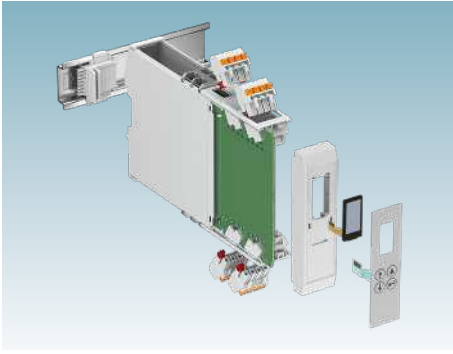
Complete system solution for control cabinet and field applications

Phoenix Contact offers custom solutions and components that are right for your application both in the field and also in control cabinet applications.

Alongside the comprehensive module selection, the housings have connection options for nearly any interface. The comprehensive portfolio of accessories, from operating solutions to heatsinks, and their integration into the various housing systems provide the ideal basis for a complete system – exactly the right fit for your device application in the control cabinet or in the field.



Your advantages at a glance



Customized complete systems

Electronics housings, services, connection technology, accessories, and custom components from a single source



Support all the way to market launch

Competent support and cooperation through the product development process up to market introduction



Long-term product availability

High future viability through item availability over many decades

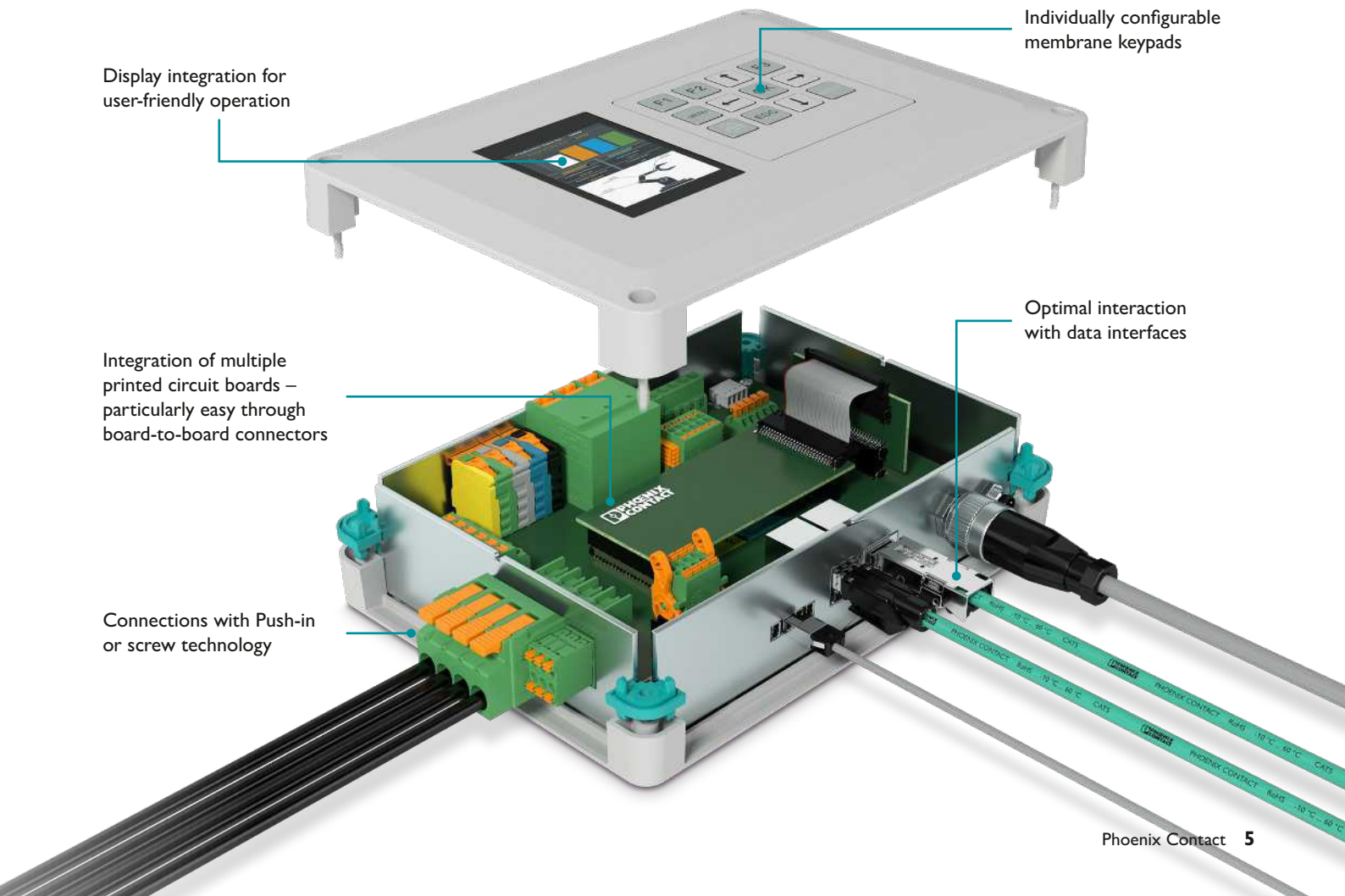
Display integration for user-friendly operation

Individually configurable membrane keypads

Integration of multiple printed circuit boards – particularly easy through board-to-board connectors

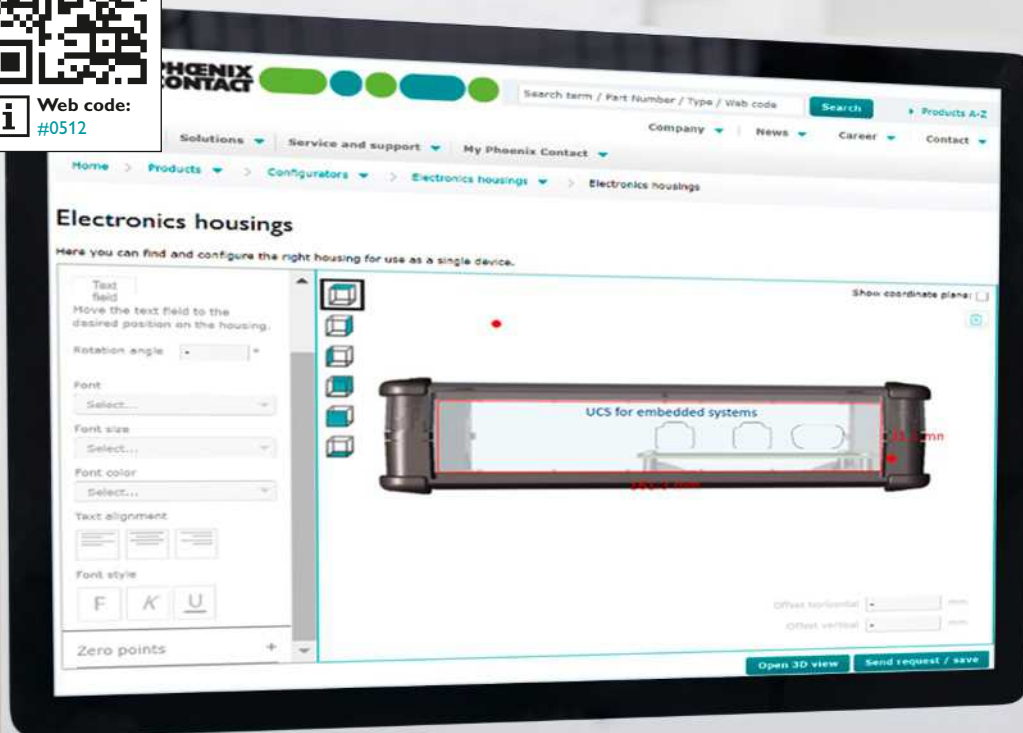
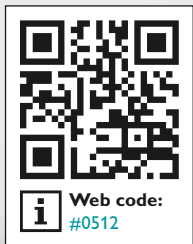
Optimal interaction with data interfaces

Connections with Push-in or screw technology



Configurators and online tools

Intelligent combinatorics, interactive component selection, and real-time visualization in 3D: Use the new online configurator to put together your electronics housing in just a few steps, including accessories such as light guides, displays, or membrane keypads. Simply select the desired enclosure series and size, add the appropriate connection technology – and you're done. The editing configurator for UCS, the configurator for thermal simulation, and the digital ICS cover designer for individual front designs expand your design options. Custom membrane keypads can be created ICS and HCS series housings.



Engineering tools for your development process

Housing selection

Quick selection of the right housing: The configurator allows convenient operation by drag-and-drop, even with mobile end devices (iOS or Android).



1. Select housing family



2. Configure housing part and connection technology



3. Show or download the complete module including the PCB contour



4. Show the parts list and order directly

Editing configurator for the UCS housing series

Easy integration of all relevant interfaces and individual printings support the web-based engineering.



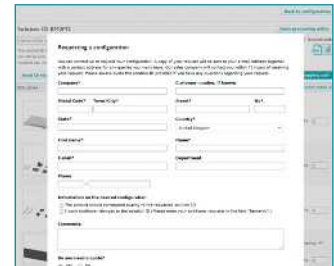
1. Select housing variant



2. Position the openings for the necessary connection technology



3. Selection of the individual marking



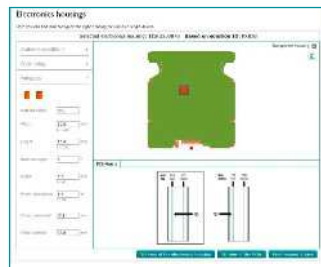
4. Request offers with the generated solution ID

Automated thermal simulation for the ICS housing series

An intuitive platform for thermal evaluation of your electronic devices even in the early phase of development.



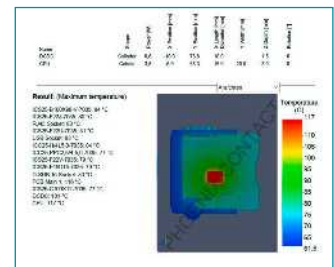
1. Select ICS housing variant



2. Place your hotspots and define the boundary conditions



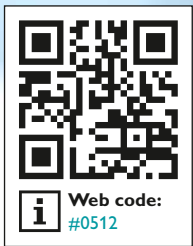
3. Check in the 3D view



4. You will receive your specific result

Online services

Alongside digital engineering services for your development process, Phoenix Contact offers further digital services. They support you on the way to your device. Unique in function and form. Starting from an individual front design to the customized membrane keypad.



Design tools for your development process

Custom cover for the ICS housing series

After configuring the right ICS housing, you can customize the cover. You can request a 3D-printed prototype in just a few steps.



1. Create a custom cover



2. Request prototype to be created in a 3D printing process



3. Start of series production

Membrane keypad configurator for the ICS housing series

In addition to configuring the housing series, you can create custom-fit membrane keypads for your housing system online.



1. Select housing variant



2. Customize the membrane keypad



3. Request offers with the generated solution ID

Membrane keypad configurator for the HCS housing series

In addition to configuring the housing series, you can create custom-fit membrane keypads for your housing system online.



1. Select housing variant



2. Customize the membrane keypad



3. Request offers with the generated solution ID

Customized electronics housings – from the idea to the custom-fit solution

From mechanical processing with state-of-the-art milling machines through tool inserts in the existing master tool to the customized design individual housing components, we offer you the perfect process for an economical implementation of your housing variant.

Benefit from our extensive offerings and get your adapted housing solution directly from the housing manufacturer.



Mechanical adaptation

Mechanical processing

Customized cutouts can be made on each side of the housing with our state-of-the-art milling machines.

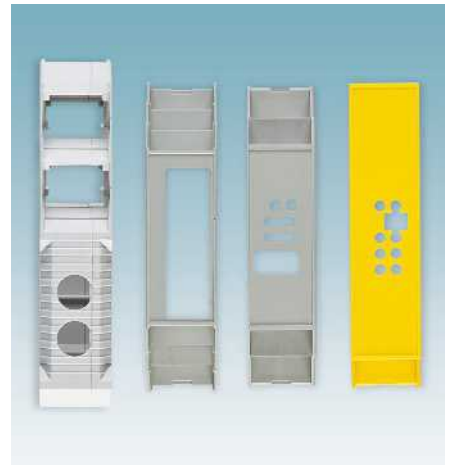
Benefit from the highest level of quality and economic implementation even with small and medium quantities.



Tool modification

With large quantities, it is often more cost-effective to replace mechanical processing with an injection-molded variant.

Benefit from fast implementation of your adapted variant directly from the original tool.



Custom design

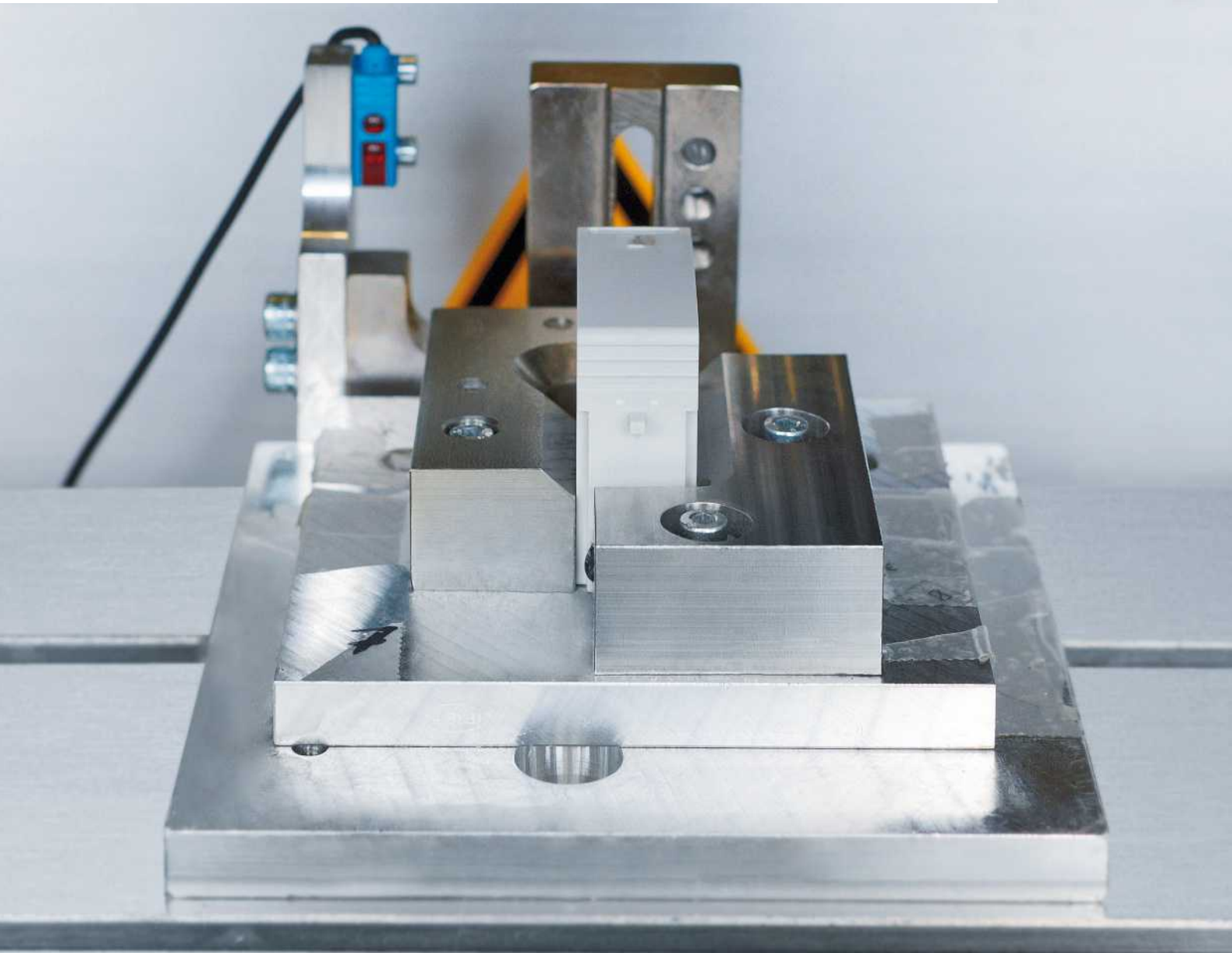
To adapt to your particular solution, it is sometimes necessary to replace individual standard housing parts with customized designs. We develop housing components in accordance with your specifications and join these with proven standard components.



Customized electronics housings – from the idea to the custom-fit solution

We offer you the perfect process for the custom design of your application, from color versions, printing, and marking to the custom design of a membrane keypad.

Benefit from our extensive offering and get your design variant directly from the housing manufacturer.



Design adaptation

Color versions

Deviating from the standard color, we also manufacture your electronic housings in other colors, completely or in a combination of various colored housing parts.

Implementing your own company color ensures the greatest possible recognition value for your application.

Colors (similar):

- RAL 7035
- RAL 5015
- RAL 6021
- RAL 1018
- RAL 9005
- RAL 3001 (PA) 3003 (PC)

More available on request.



Printing and marking

The fine-tuning of the application-specific appearance is achieved via the company logo and the marking of the existing control elements.

Benefit from our numerous options and select the optimal printing process for your application.

- **Pad printing:** Cost-effective print for one or two-color texts and logos
- **Screen printing:** Brilliant colors for large or multi-colored printed images
- **Laser marking:** Resistant marking for consecutive serial numbers and codings (bar code, QR and DataMatrix code)



Customized membrane keypads

“Intelligent” devices need reliable input systems. In many areas of industrial production, but also in machine building and in logistics, membrane keypads are often used. A membrane keypad always consists of a combination of multiple layers – with extensive options for customization.

1. Assemble your housing online to fit your application (web code: [#0512](#))
2. Select the ICS25 housing or the HCS housing
3. Configure shapes, colors, and markings



Overview of field housings

Whether stationary display units, robust outdoor devices, or embedded systems: Field housings with a high degree of protection from Phoenix Contact are suitable for numerous application areas such as building automation, logistics, or vehicle technology. A comprehensive range of accessories such as displays, membrane keypads, and wall and mast brackets increase the variety of applications.

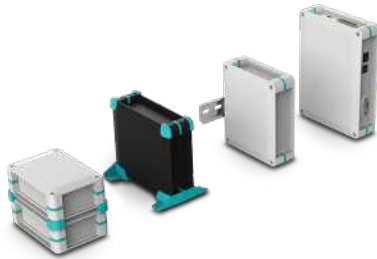
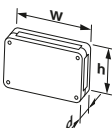
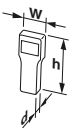


Field housing product navigator

Product family	UCS	HCS	HC-ALU	ECS	DCS
Pages	18–27	28–33	34–37	38–47	48–51
					
Applications in rough environments					
Increased degree of protection IP6x/NEMA			•	•	
Potentially explosive areas				•	
Maritime approval GL				•	
Housing approval UL50				•	
Applications (mounting type)					
Mast mounting				•	
Wall mounting	•		•	•	•
Table	•				
Handheld		•	•		•
VESA	•				•
Connection technology					
All IP20 connection technologies	•	•	•	•	•
All IP6x connection technologies			•	•	
HMI integration ¹⁾					
Keypads	•	•	•		•
Displays	•	•			•
Light guides	•			•	
Variability					
Battery operation optional		•			•
Side walls can be replaced	•	•	•		•
Pressure compensation membrane				•	

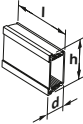
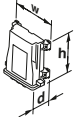
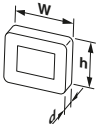
¹⁾ Custom combinations available on request.

Overview of field housings

Field housings					
					
Housing series		UCS		HCS	
i Web code		#0854		#0856	
Attachment	On DIN rail DIN EN 60715	NS 35 ¹⁾			
	Other	Wall mounting, tabletop operation, VESA		Handheld	
Operating temperature range [°C] depending on the power dissipation		-40 ... +100		-20 ... +80	
Max. degree of protection i.a.w. DIN EN 60529		IP40		IP54	
Max. degree of protection i.a.w. NEMA 250					
Shock resistance i.a.w. DIN EN 50102					
Dimensions	Width/w [mm] and length/l [mm]		87/125/145/195/237 ¹⁾		70.5 ... 116
	Depth/d [mm]		47/67		26 ... 40
	Height/h [mm]		87/125/145/195 ¹⁾		110 ... 253
Maximum usable PCB surface [mm²] per PCB		3,600 ... 35,800 ²⁾		5,700 ... 22,000	
Power dissipation [W] at 20°C		9.7 ... 41.9			
Display integration		●		●	
Membrane keypad installation		●		●	
Light guide integration		●		Possible to a limited extent	
PCB connections		Optional assembly, e.g., with M12 panel feed-throughs			
Variability		Stackable, side panels can be replaced, impact-resistant		Battery operation optional	
Material	Designation	PC (polycarbonate)		ABS (acrylonitrile butadiene styrene copolymer)	
	Flammability rating	V0 (UL94)		V0 (UL94)	
Sample set		52008272			
See page		18		28	

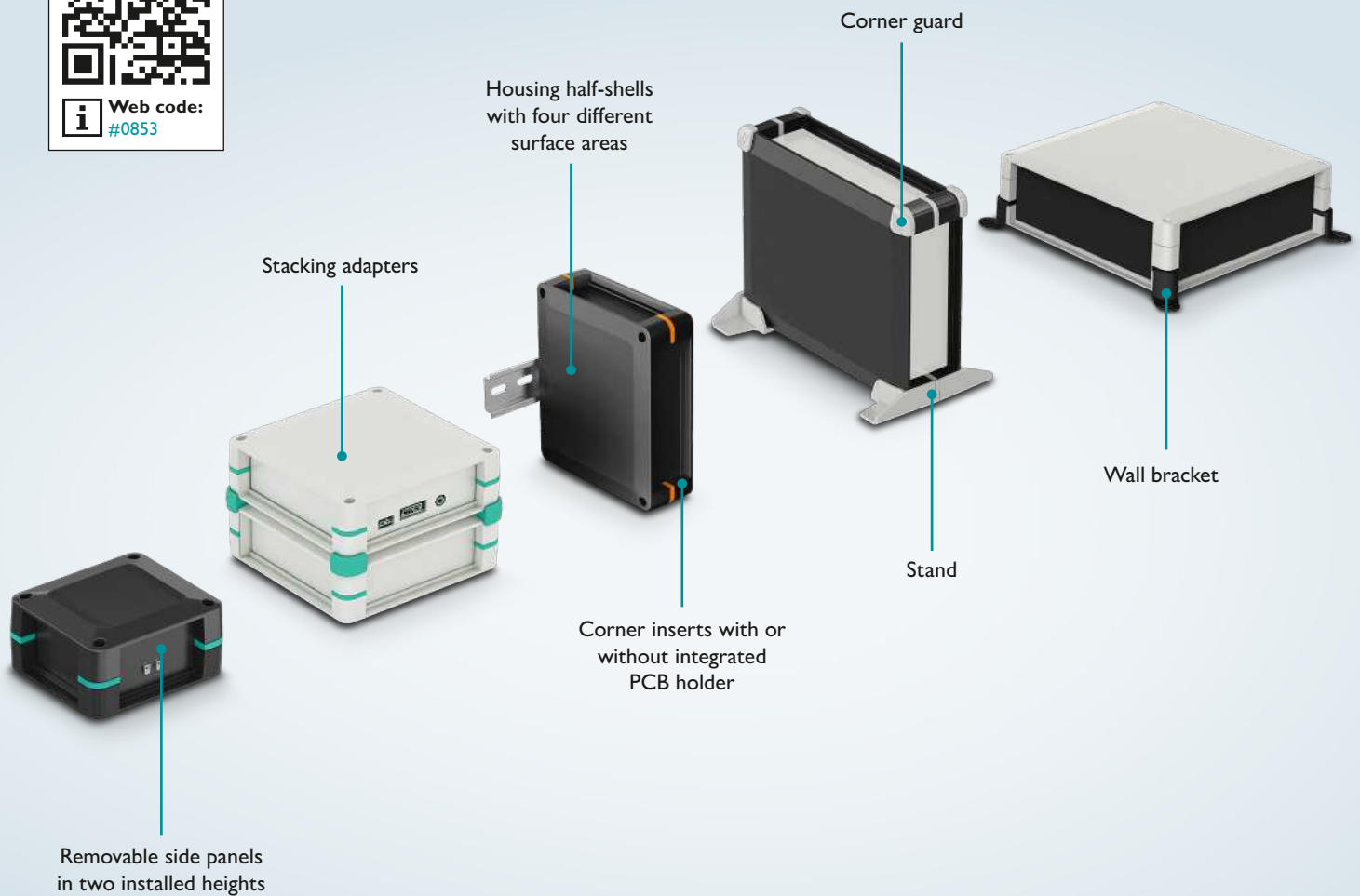
¹⁾ Securing to DIN rail not possible for variants 87 x 87 and 237 x 195 mm

²⁾ One PCB per housing half

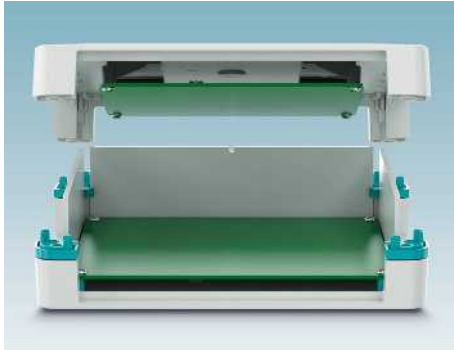
				Display carriers	
					
HC-ALU		ECS		DCS	
#0925		#0858		#0860	
Handheld Wall mounting		Wall and mast mounting		Handheld Wall mounting (VESA 75+100)	
-40 ... +70		-40 ... +100		-20 ... +80	
IP65		IP69 (IP69K in accordance with ISO 20653)		IP54	
		Type 6			
		IK 08			
	Profile length 100/150/200/1,000		163/196		224/362
	33/55		64		40/62
	74/99/121/184		120/180		157/286
5,000 ... 158,000		5,100 ... 15,400		18,900 ... 93,000	
		Max. 19			
●				●	
●				●	
Possible to a limited extent		Maximum IP68		Possible to a limited extent	
Optional assembly, e.g., with M12 panel feed-throughs		Optional assembly, e.g., with M12 panel feed-throughs		Optional assembly, e.g., with M12 panel feed-throughs	
Wall mounting optional		Mast mounting, wall mounting, pressure compensation membrane		Wall mounting, VESA mounting, adaptable battery housing, side panels can be replaced	
Profile: Anodized aluminum (Al Mg Si0.5) Cover: Die-cast zinc (Z 410)		PC (polycarbonate)		ABS (acrylonitrile butadiene styrene copolymer)	
		V0 (UL94)		V0 (UL94)	
52002014		52008541			
34		38		48	

UCS universal housings for embedded systems

The universal housings from the UCS series are the ideal solution for embedded systems. The IP40 housings reliably protect PCBs in a standard form factor and your custom designed PCB from external influences. Removable side panels allow integration of any connection technology and modular housing solutions in individual installed heights. The flexible PCB mounting allows several PCBs to be integrated in one housing. Thanks to the modular system, the UCS series can be adapted individually to the required application.



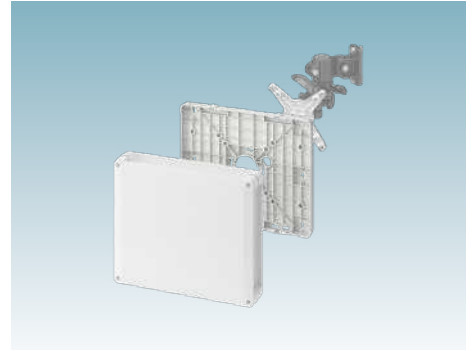
Your advantages



Integrated or flexible PCB mounting for variable electronics solutions



Even greater versatility, thanks to DIN rail adapter and other accessories



Can be used multifunctionally:
On the wall, on the wall outlet box,
and in accordance with the VESA standard.

Configure your product the way you want

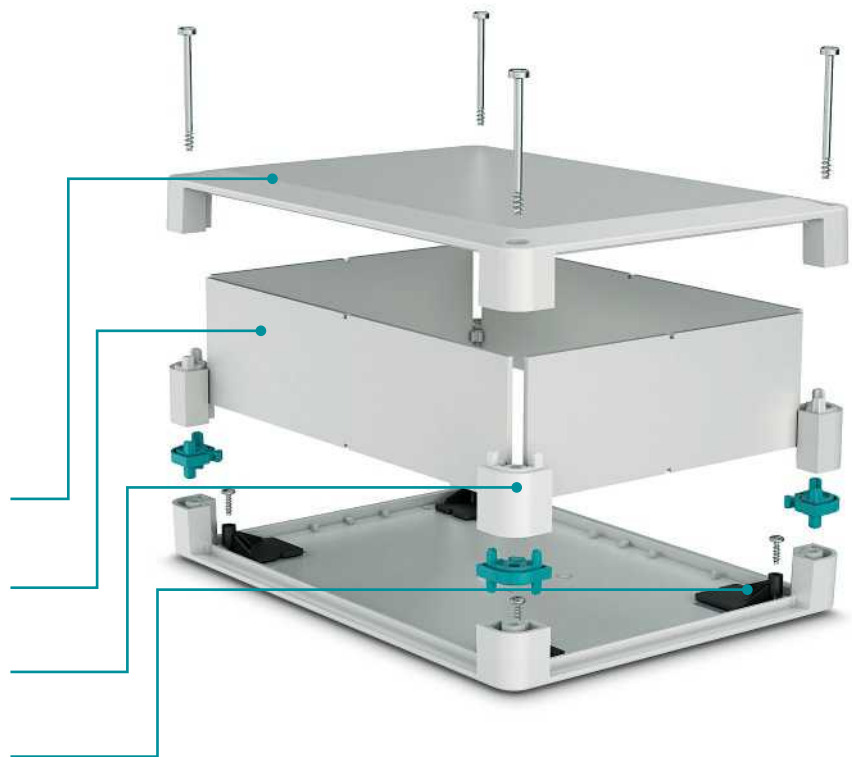
Version 1 – complete housing (pp. 18–21)

- 1 Select the maximum PCB dimensions or form factor
- 2 Select the depth and color of the complete housing
- 3 Search for accessories (pp. 20–21)

or

Version 2 – custom configuration (pp. 22–23)

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



Housing color options (based on RAL color system):

7035 9005

Corner inserts:

7035 5018 9005 3001 5015 2003
5010 1018

Other colors are available on request.

Go directly to the online configurator

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

i Web code: #0512

USC universal housings are also available in Raspberry Pi variants; see page 50.

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

UCS series configuration overview (version 1 – complete housing)

1 PCB mounting/form factor		2 Complete housing			
			new	new	
					
			UCS 87-87-F-GD ...	UCS 87-87-H-GD ...	UCS 125-87-F-GD ...
PCB mounting	Form factor	Color	Depth 47 mm	Depth 67 mm	Depth 47 mm
Flexible with adhesive pad, fits the following form factors ¹⁾		Light gray (RAL 7035)	1349259	1355983	2203328
		Jet black (RAL 9005)	1355985	1349262	2203329
	Raspberry Pi / Arduino				•
	96Board CE (Consumer Edition)				•
	96Board IE (IoT Edition Standard)				•
	ETX / PC 104 / Pico ITX				
	EPIC / Nano ITX				
	Mini DTX / Mini ITX / EBX				
			UCS 87-87-F-CCD ...	UCS 87-87-H-CCD ...	UCS 125-87-F-CCD ...
PCB mounting	PCB	Color	Depth 47 mm	Depth 67 mm	Depth 47 mm
Fixed in the housing corners for max. PCB dimensions ²⁾		Light gray (RAL 7035)	1349243	1349251	2203443
		Jet black (RAL 9005)	1349249	1349254	2203444
	211.8 mm x 169.8 mm				
	169.8 mm x 120 mm				
	120 mm x 100 mm				
	100 mm x 62 mm				•
	62 mm x 62 mm		•	•	

¹⁾ PCBs with the above-listed form factors can usually be placed in the indicated housings. As a rule, the next largest housing should also be used to allow additional PCBs to be integrated. There is also the option of mounting other non-form-factor PCBs in the housings using flexible PCB mounting. Note the option to configure the housing using

the online configurator. Enter the web code #0512 in the search field on our website at phoenixcontact.com.

							
UCS 125-87-H-GD ...	UCS 145-125-F-GD ...	UCS 145-125-H-GD ...	UCS 195-145-F-GD ...	UCS 195-145-H-GD ...	UCS 237-195-F-GD ...	UCS 237-195-H-GD ...	UCS 125-87 ... with 2.4" touch display
Depth 67 mm	Depth 47 mm	Depth 67 mm	Depth 47 mm	Depth 67 mm	Depth 47 mm	Depth 67 mm	Depth 47 mm
2203331	2203332	2203334	2203336	2203338	2203341	2203344	1246286
2203330	2203333	2203335	2203337	2203340	2203343	2203345	1246287
•							•
•							•
•							•
	•	•					
			•	•			
					•	•	
UCS 125-87-H-CCD ...	UCS 145-125-F-CCD ...	UCS 145-125-H-CCD ...	UCS 195-145-F-CCD ...	UCS 195-145-H-CCD ...	UCS 237-195-F-CCD ...	UCS 237-195-F-CCD ...	
Depth 67 mm	Depth 47 mm	Depth 67 mm	Depth 47 mm	Depth 67 mm	Depth 47 mm	Depth 67 mm	
2203445	2203447	2203450	2203453	2203454	2203455	2203457	
2203446	2203448	2203451	2203441	2203442	2203456	2203458	
					•	•	
			•	•			
	•	•					
•							

²⁾ For maximum assembly of your PCB, housings are available for the following maximum PCB dimensions.

UCS series configuration overview (version 1 – complete housing)

3 Accessories ¹⁾						
					new	new
						
	Description	Type	Item No.	Color	Depth 47 mm	Depth 67 mm
					UCS 87-87-F-GD ...	UCS 87-87-H-GD ...
	Adapter for fastening the UCS housing to the wall, on VESA holder or wall outlet box. ²⁾	UCS WM-MP 125-87 7035	1225407	Light gray (RAL 7035)		
		UCS WM-MP 145-125 7035	1225406	Light gray (RAL 7035)		
		UCS WM-MP 195-145 7035	1225405	Light gray (RAL 7035)		
		UCS WM-MP 237-195 7035	1225404	Light gray (RAL 7035)		
	4 adapters for attaching the UCS housing to the wall. Are used instead of the corner insert. ³⁾	UCS WM-B 7035	2203718	Light gray (RAL 7035)	•	•
		UCS WM-B 9005	2203719	Jet black (RAL 9005)	•	•
		UCS WM-B 5018	2203391	Turquoise blue (RAL 5018)	•	•
	2 stands for holding the UCS housing. Latch into the housing screw holes.	UCS PED 7035	2203392	Light gray (RAL 7035)	•	
		UCS PED 9005	2203393	Jet black (RAL 9005)	•	
		UCS PED 5018	2203394	Turquoise blue (RAL 5018)	•	
	4 adapters for protecting the corners of the UCS housing. Held in place in the housing screw holes.	UCS CP 7035	2203346	Light gray (RAL 7035)	•	•
		UCS CP 9005	2203347	Jet black (RAL 9005)	•	•
		UCS CP 5018	2203348	Turquoise blue (RAL 5018)	•	•
	4 adapters for stacking several UCS housings of the same size. Held in place in the housing screw holes.	UCS CS 7035	2203720	Light gray (RAL 7035)	•	•
		UCS CS 9005	2203721	Jet black (RAL 9005)	•	•
		UCS CS 5018	1029039	Turquoise blue (RAL 5018)	•	•
	DIN rail adapter for mounting a UCS housing on an NS 35 DIN rail. Used in place of the corresponding side panel in the housing.	UCS DIN 125-F 7035	2203838	Light gray (RAL 7035)		
		UCS DIN 125-H 7035	2203841	Light gray (RAL 7035)		
		UCS DIN 145-F 7035	2203839	Light gray (RAL 7035)		
		UCS DIN 145-H 7035	2203840	Light gray (RAL 7035)		
		UCS DIN 125-F 9005	1174338	Jet black (RAL 9005)		
		UCS DIN 125-H 9005	1174345	Jet black (RAL 9005)		
		UCS DIN 145-F 9005	1174341	Jet black (RAL 9005)		
		UCS DIN 145-H 9005	1174406	Jet black (RAL 9005)		

¹⁾ Accessories suitable for one UCS complete housing each
For covering all screw holes you need 2 pieces of UCS CP...

²⁾ Holders for VESA 75/100 and 100/200 applications; for wall outlet boxes with a diameter of 60 mm; can also be used in conjunction with monitor holders type HS .../(see page 146).

								
Depth 47 mm	Depth 67 mm	Depth 47 mm	Depth 67 mm	Depth 47 mm	Depth 67 mm	Depth 47 mm	Depth 67 mm	Depth 47 mm
UCS 125-87-F-GD ...	UCS 125-87-H-GD ...	UCS 145-125-F-GD ...	UCS 145-125-H-GD ...	UCS 195-145-F-GD ...	UCS 195-145-H-GD ...	UCS 237-195-F-GD ...	UCS 237-195-H-GD ...	UCS 125-87 ... with 2.4" touch display
•	•							•
		•	•					
				•	•			
						•	•	
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•		•		•		•		•
•		•		•		•		•
•		•		•		•		•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
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			•		•			
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	•		•					
		•		•				
			•		•			

³⁾ Wall bracket only in conjunction with UCS ... GD ... versions

UCS series configuration overview (version 2 – custom configuration)

2 Side panels ¹⁾						
	Type	Length	Depth	Color		
				Light gray, similar to RAL 7035, polycarbonate	Jet black, similar to RAL 9005, polycarbonate	Aluminum ²⁾
				Item No.	Item No.	Item No.
						
	UCS SW 87 ...	87 mm	47 mm	2203358	2203359	2203360
			67 mm	2203361	2203362	2203363
	UCS SW 125 ...	125 mm	47 mm	2203364	2203365	2203366
			67 mm	2203367	2203369	2203370
	UCS SW 145 ...	145 mm	47 mm	2203372	2203373	2203374
			67 mm	2203375	2203376	2203377
	UCS SW 195 ...	195 mm	47 mm	2203378	2203379	2203380
			67 mm	2203381	2203382	2203383
	UCS SW 237 ...	237 mm	47 mm	2203385	2203386	2203387
			67 mm	2203388	2203389	2203390

3 Height adapters (needed in conjunction with 67 mm deep side panels)				
	Description	Type	Item No.	Color
	4 height adapter corners with screws	UCS HAC 7035	2203399	Light gray (RAL 7035)
		UCS HAC 9005	2203400	Jet black (RAL 9005)

4 Corner inserts and accessories				
	Description	Type	Item No.	Color
	4 corner inserts with screws ³⁾	UCS CC 7035	2203395	Light gray (RAL 7035)
		UCS CC 9005	2203396	Jet black (RAL 9005)
		UCS CC 5018	2203398	Turquoise blue (RAL 5018)
		UCS CC 3001	1222470	Signal red (RAL 3001)
		UCS CC 5015	1222462	Sky blue (RAL 5015)
		UCS CC 2003	1222468	Pastel orange (RAL 2003)
		UCS CC 5010	1222467	Gentian blue (RAL 5010)
		UCS CC 1018	1222463	Zinc yellow (RAL 1018)
	4 corner inserts with screw boss and screws	UCS CCD 7035	2203479	Light gray (RAL 7035)
		UCS CCD 9005	2203477	Jet black (RAL 9005)
		UCS CCD 5018	2203404	Turquoise blue (RAL 5018)
		UCS CCD 3001	1222470	Signal red (RAL 3001)
		UCS CCD 5015	1056065	Sky blue (RAL 5015)
		UCS CCD 2003	1222461	Pastel orange (RAL 2003)
		UCS CCD 5010	1222459	Gentian blue (RAL 5010)
		UCS CCD 1018	1222532	Zinc yellow (RAL 1018)
	4 screws for housing half-shell (47 mm)	UCS SF 3,5X20	2203402	
	4 screws for housing half-shell (67 mm)	UCS SH 3,5X40	2203403	
	4 adhesive pads with screws for flexible PCB mounting	UCS GD 9005	2203401	Jet black (RAL 9005)

¹⁾ UCS SW 87 ...: VPE = 20, all other UCS SW ...: VPE = 10
VPE = Packing unit

²⁾ Anodized

1

[illegible]

³⁾ Adhesive pads (2203401) are required for PCB mounting

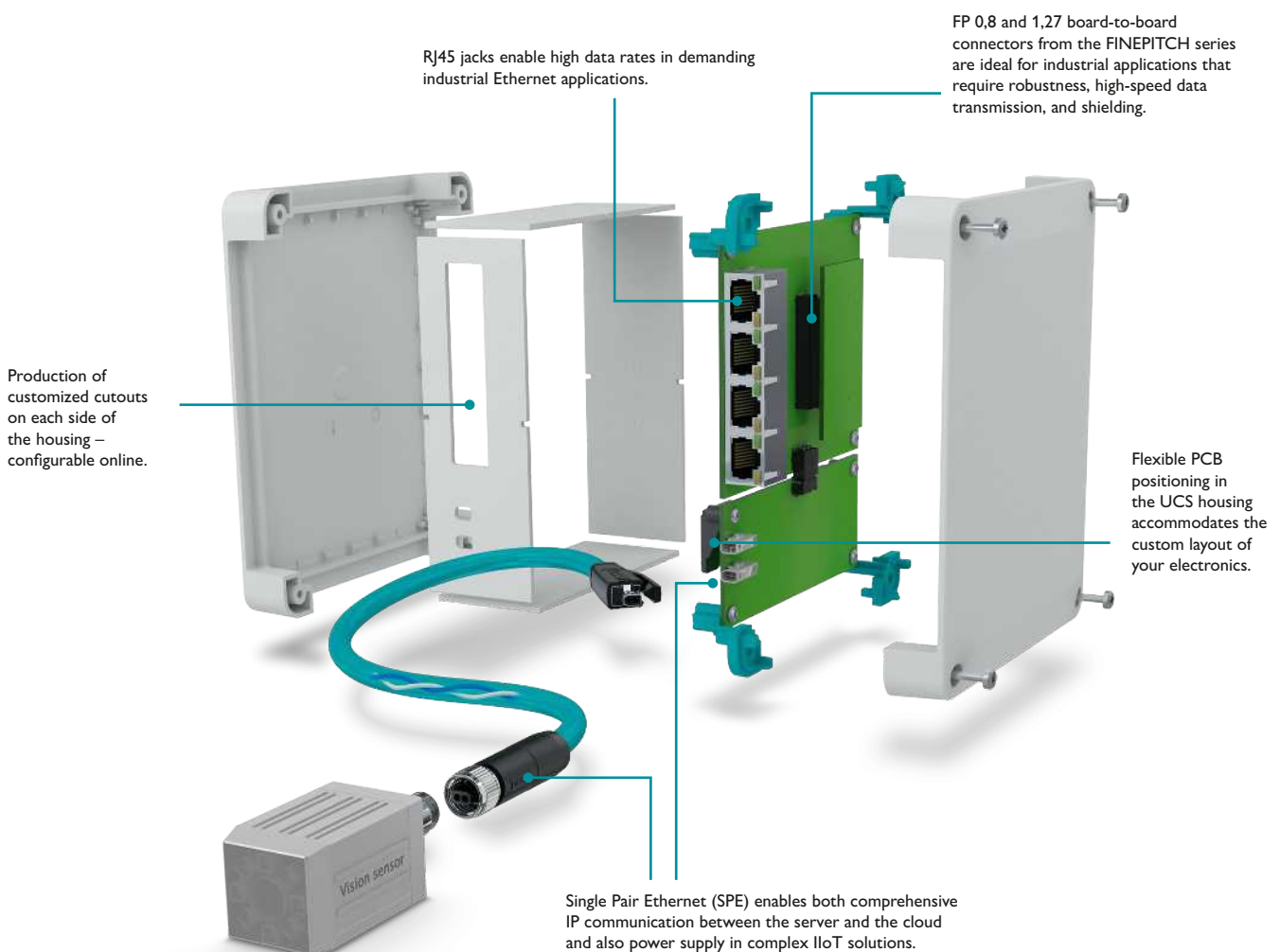
4) UCS HH 87-87 ... and UCS HH 125-87 ...: VPE = 20, all other UCS HH ...: VPE = 10
VPE = Packing unit

UCS housings for smart devices in industrial digitalization

Smart devices based on single-board computers or embedded boards require housings that meet their requirements. UCS is the ideal housing for a wide range of applications, as the design can be customized and the housing is able to accommodate current connection technologies.

The modular system in conjunction with the corresponding connection technology and accessories provides you with hundreds of possible combinations when creating your smart device. The integration of display and operating elements, such as light guides and touch displays, is of course also possible.

Everything can be configured online (web code [#0512](#)) and positioned as desired.



Find out more about Single Pair Ethernet:

i Web code: [#2240](#)

Corresponding connection technology

FP 0,8 unshielded (example 12-pos.)				 Web code: #2050
				
Description	Vertical male connector strip	Horizontal male connector strip	Horizontal male connector strip	Horizontal female connector strip
Item No.	1061725	1104548	1061643	1104540
Type	FP 0,8/12-MV 1,15	FP 0,8/12-MH	FP 0,8/12-FV 4,85	FP 0,8/12-FH
Soldering process	SMD			
FP 1,27 (example: 12-pos.)				 Web code: #1520
				
Description	Vertical male connector strip	Horizontal male connector strip	Vertical female connector strip	Horizontal female connector strip
Item No.	1714934	1714912	1714891	1714869
Type	FP 1,27/12-MV 1,75	FP 1,27/12-MH	FP 1,27/12-FV 6,25	FP 1,27/12-FH
Soldering process	SMD			
RJ45 jacks				 Web codes: #2054 and #2341
				
Description	RJ45 single-port PCB jack	RJ45 industrial jack	RJ45 2*multiport PCB jack	RJ45 4*multiport PCB jack
Item No.	1149872	1099281	1149855	1149848
Type	CUC-SP-J1ST-S/R4LT	CUC-IND-J1ST-A/R4LS-LED-PG	CUC-MP-J1ST-A/2R4LB	CUC-MP-J1ST-A/4R4LT-LED
Soldering process	Wave	THR + wave	Wave	Wave
Alignment	180°	90°	90°	90°
Equipment		LED	Shield springs	
Single Pair Ethernet				 Web code: #2240
				
Description	SPE PCB connector	Patch cables	SPE PCB connector	SPE M8 patch cable, straight version
Item No.	1163797	1183807	1163793	1217530
Type	SPE-T1-STRM-90	SPE-T1-CCP-SF/1,0/AWG22/CCP-SF	SPE-T1-M8MSM-180	SPE-T1-M8FSF/2,0-97B/M8FSF
Soldering process	THR + wave		THR + wave	
Alignment	90°		180°	
Length		1 m		2 m

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. Thanks to the comprehensive range of pre-assembled accessories, customized electronics solutions can be built immediately.



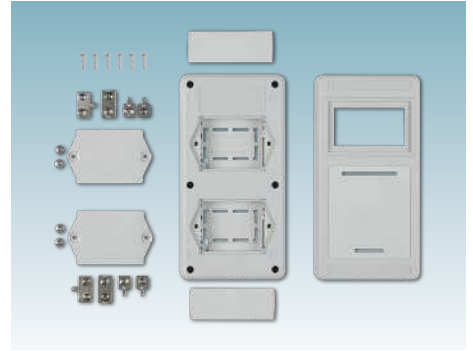
Your advantages



Custom-fit membrane keypads, also available with particular specifications



Easy integration of displays



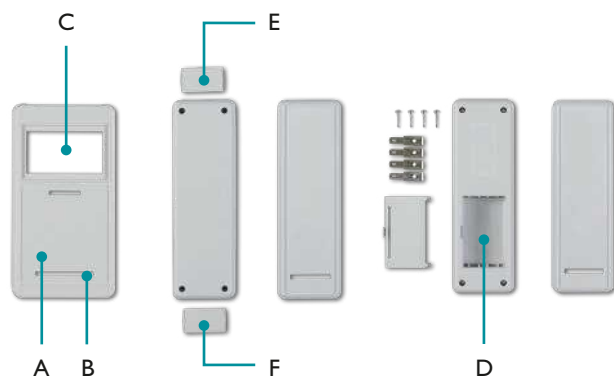
Standard versions for different device interfaces and for energy supply

Configure your product the way you want

1 Select the housing size



2 Specify the version/design



3 Add accessories

Go directly to the online configurator

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

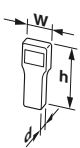
i Web code: #0512

Housing color options (based on RAL color system):

■ 7035

Other colors are available on request.

HCS series configuration overview: Housings

1 Housing		2 Version / design				
	Width/w [mm]					
	Depth/d [mm]					
	Height/h [mm]					
			Front side			Back side
			A	B	C	D
	Height	Width(s) x depth(s)	Surface area	Opening for membrane cable	Window for display	Battery compartment
	110 mm	70.5 mm x 26 mm	Level			3 x AAA
			Recessed 1.1 mm	•	2.8"	9 V
				•	2.8"	9 V
				•	2.8"	3 x AAA
	135 mm	80 mm x 29 mm	Recessed 1.1 mm	•	2.8"	2 x AA
				•	2.8"	2 x 2 AA
			Level			
	150 mm	48 mm x 28 mm	Recessed 1.1 mm	•		2 x AA
				•		2 x AA
				•		
			Level			
	164 mm	87 mm x 31 mm	Recessed 1.1 mm	•	2.8"	3 x AA
				•	2.8"	
			Level			
	182.5 mm	85/62 mm x 30/25.2 mm	Recessed 1.1 mm	•	2.8"	3 x AA
				•	2.8"	
			Level			
	182.5 mm	94 mm x 39 mm	Recessed 1.1 mm	•	2.8"	2 x 3 AA
				•	2.8"	2 x 9 V
				•	2.8"	
			Level			
	216 mm	92/75/82 mm x 40/30 mm	Recessed 1.1 mm	•	2.8"	
				•	2.8"	
			Level			
	253 mm	116/89/96 mm x 46/36 mm	Recessed 1.1 mm	•	4.6"	5 x AA
				•	4.6"	
				•	4.6"	
			Level			

				
Face end			Graduated	Even
E	F			
Top	Bottom	Type	Item No.	Item No.
Closed	Closed	HCS-C MINI C C C C 7035		2203146
Open	Open	HCS-C MINI C 3AAA 1 1 7035		2203151
Closed	Closed	HCS-C MINI 1W C C C 7035		2203147
Closed	Closed	HCS-C MINI 1 9V C C 7035		2203149
Open	Closed	HCS-C MINI 1W 9V 1 C 7035		2203150
Open	Open	HCS-C MINI 1W 3AAA 1 1 7035		2203152
Closed	Closed	HCS-C MINI-P 1W C C C 7035		2203153
Open	Open	HCS-C MINI-P 1 C 1 1 7035		2203154
Open	Open	HCS-C MINI-P 1W C 1 1 7035		2203155
Closed	Closed	HCS-C MINI-P 1W 2AA C C 7035		2203157
Closed	Closed	HCS-C MINI-P 1 2x2AA C C 7035		2203158
Closed	Closed	HCS-T MICRO C C C C 7035		2203124
Open	Open	HCS-T MICRO 1 C 1 1 7035		2203125
Open	Open	HCS-T MICRO X C 1 1 7035		2203126
Closed	Closed	HCS-T MICRO X 2AA C C 7035		2203127
Open	Open	HCS-T MICRO X 2AA 1 1 7035		2203128
Closed	Closed	HCS-C MEDIUM C C C C 7035		2203160
Open	Open	HCS-C MEDIUM C C 1 1 7035		2203161
Open	Closed	HCS-C MEDIUM 1W C 1 C 7035		2203162
Open	Open	HCS-C MEDIUM 1W 3AA 1 1 7035		2203163
Closed	Closed	HCS-T MINI C C C C 7035	2203130	
Closed	Closed	HCS-T MINI 1W C C C 7035	2203131	
Closed	Closed	HCS-T MINI 1W 3AA C C 7035	2203134	
Closed	Closed	HCS-C MAXI C C C C 7035		2203165
Closed	Closed	HCS-C MAXI 1W C C C 7035		2203166
Open	Open	HCS-C MAXI 1W C 1 1 7035		2203167
Open	Open	HCS-C MAXI 1W 6AA 1 1 7035		2203168
Open	Open	HCS-C MAXI 1W 2x9V 1 1 7035		2203170
Open	Open	HCS-T MEDIUM C C 1 1 7035	2203137	
Open	Open	HCS-T MEDIUM 1W C 1 1 7035	2203138	
Closed	Open	HCS-T MEDIUM 1W C C 1 7035	2203139	
Closed	Closed	HCS-T MAXI 1W C C C 7035	2203142	
Open	Open	HCS-T MAXI 1W C 1 1 7035	2203143	
Open	Open	HCS-T MAXI 1W 5AA 1 1 7035	2203144	

HCS series configuration overview: Accessories

Housing			3 Accessories			
						
	Type	Item No.	Display ¹⁾	Acrylic glass for display	Membrane keypad ²⁾	IP54 seal kit ³⁾ (IEC/EN 60529)
			D L ...	HCS ...WIN 2,0 FR ...	KP ...	HCS ... SEAL
	HCS-C MINI C C C C 7035	2203146				2203575
	HCS-C MINI 1W C C C 7035	2203147	On request	On request	On request	2203575
	HCS-C MINI 1 9V C C 7035	2203149				
	HCS-C MINI 1W 9V 1 C 7035	2203150	On request	On request	On request	
	HCS-C MINI C 3AAA 1 1 7035	2203151				
	HCS-C MINI 1W 3AAA 1 1 7035	2203152	On request	On request	On request	
	HCS-C MINI-P 1W C C C 7035	2203153	2203543	2203588	2203566	2203576
	HCS-C MINI-P 1 C 1 1 7035	2203154				2203576
	HCS-C MINI-P 1W C 1 1 7035	2203155	2203543	2203588	2203566	2203576
	HCS-C MINI-P 1W 2AA C C 7035	2203157	2203543	2203588	2203566	
	HCS-C MINI-P 1 2x2AA C C 7035	2203158				
	HCS-T MICRO C C C C 7035	2203124				2203577
	HCS-T MICRO 1 C 1 1 7035	2203125				2203577
	HCS-T MICRO X C 1 1 7035	2203126			2203567	2203577
	HCS-T MICRO X 2AA C C 7035	2203127			2203567	
	HCS-T MICRO X 2AA 1 1 7035	2203128			2203567	
	HCS-C MEDIUM C C C C 7035	2203160				2203578
	HCS-C MEDIUM C C 1 1 7035	2203161				2203578
	HCS-C MEDIUM 1W C 1 C 7035	2203162	2203543	2203836	2203568	2203578
	HCS-C MEDIUM 1W 3AA 1 1 7035	2203163	2203543	2203589	2203568	
	HCS-T MINI C C C C 7035	2203130				2203579
	HCS-T MINI 1W C C C 7035	2203131	2203543	2203590	2203569	2203579
	HCS-T MINI 1W 3AA C C 7035	2203134	2203543	2203590	2203569	
	HCS-C MAXI C C C C 7035	2203165				2203580
	HCS-C MAXI 1W C C C 7035	2203166	2203543	2203591	2203568	2203580
	HCS-C MAXI 1W C 1 1 7035	2203167	2203543	2203591	2203568	2203580
	HCS-C MAXI 1W 6AA 1 1 7035	2203168	2203543	2203591	2203568	
	HCS-C MAXI 1W 2x9V 1 1 7035	2203170	2203543	2203591	2203568	
	HCS-T MEDIUM C C 1 1 7035	2203137				2203581
	HCS-T MEDIUM 1W C 1 1 7035	2203138	2203543	2203592	2203570	
	HCS-T MEDIUM 1W C C 1 7035	2203139	2203543	2203592	2203570	
	HCS-T MAXI 1W C C C 7035	2203142	2203547	2203593	2203571	2203582
	HCS-T MAXI 1W C 1 1 7035	2203143	2203547	2203593		2203582
	HCS-T MAXI 1W 5AA 1 1 7035	2203144	2203547	2203593		

¹⁾ For technical data, see page 140

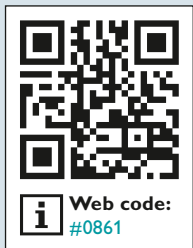
²⁾ For technical data, see page 142

³⁾ For housing without battery compartment

				
Mounting set	Fixing plate	Seal for display	Adhesive layer for acrylic glass	Screwdriver
HCS ... D-FIX ...	HCS ... DISPLAY PLATE	HCS ... D-SEAL	HCS ... W-GLUE	SF-PH 0
				1212558
2203732	2203867	2203736	2203743	1212558
2203732	2203867			
2203732	2203867			
				1212558
		2203737		1212558
2203732	2203868		2203744	
2203732	2203868		2203742	
		2203738	2203745	1212558
2203732	2203864			
2203732	2203864			
		2203739	2203746	1212558
2203732	2203869			
2203732	2203869			
2203732	2203869			
		2203740	2203747	1212558
2203733	1031980			
2203733	1031980			
2203734	2203866	2203741	2203748	1212558

HC-ALU profile housing 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. The field housings feature effective EMC shielding, are ideal for temperatures ranging from -40°C to $+70^{\circ}\text{C}$, and provide IP65 dust and splash water protection in accordance with DIN EN 60529.



Your advantages



Dependable under demanding conditions, thanks to the robust, split aluminum profile for lightweight modules

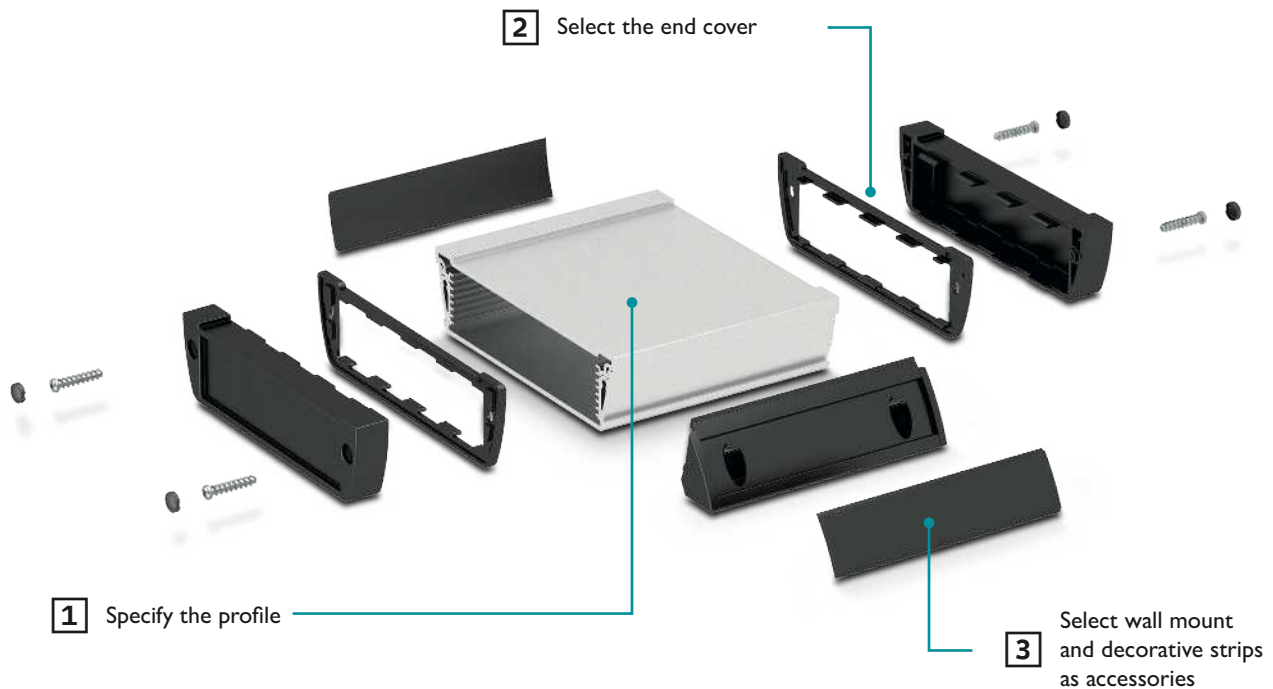


Versatile use with the integration of displays or custom membrane keypads as well as a front plate



Wall mount for stationary applications

Configure your product the way you want



Go directly to the online configurator

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

i Web code: #0512

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

HC-ALU series configuration overview

		Profile width (internal)			
					
		53.5 mm	78 mm	100.5 mm	161 mm

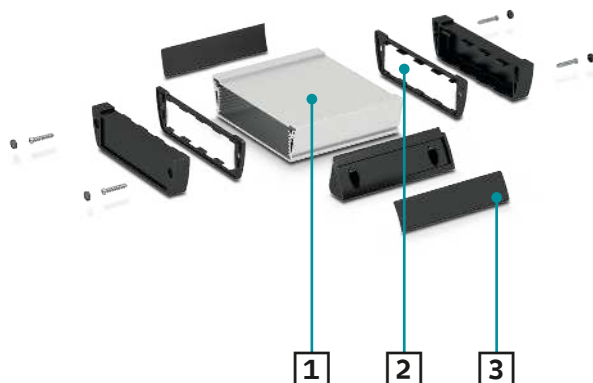
1 Aluminum profile, 2-piece

Description	Type				
Profile length 100 mm	HC-ALU 6- ... PROFILE 100	2200887	2200892	2200897	2200902
Profile length 150 mm	HC-ALU 6- ... PROFILE 150	2200888	2200893	2200898	2200903
Profile length 200 mm	HC-ALU 6- ... PROFILE 200	2200889	2200894	2200899	2200904
Profile length 1,000 mm	HC-ALU 6- ... PROFILE 1000	2200890	2200895	2200900	2200905

2 End cover

	End cover, with screws and seal	HC-ALU 6- ... COVER GY	2200891	2200896	2200901	2200906
	End cover, with hinged cover, screws, and seal	HC-ALU 6- ... DKL-COVER GY	2201121	2201122	2201123	

Configure your product the way you want



Go directly to the online configurator

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

i Web code: #0512

			Profile width (internal)			
						
			53.5 mm	78 mm	100.5 mm	161 mm

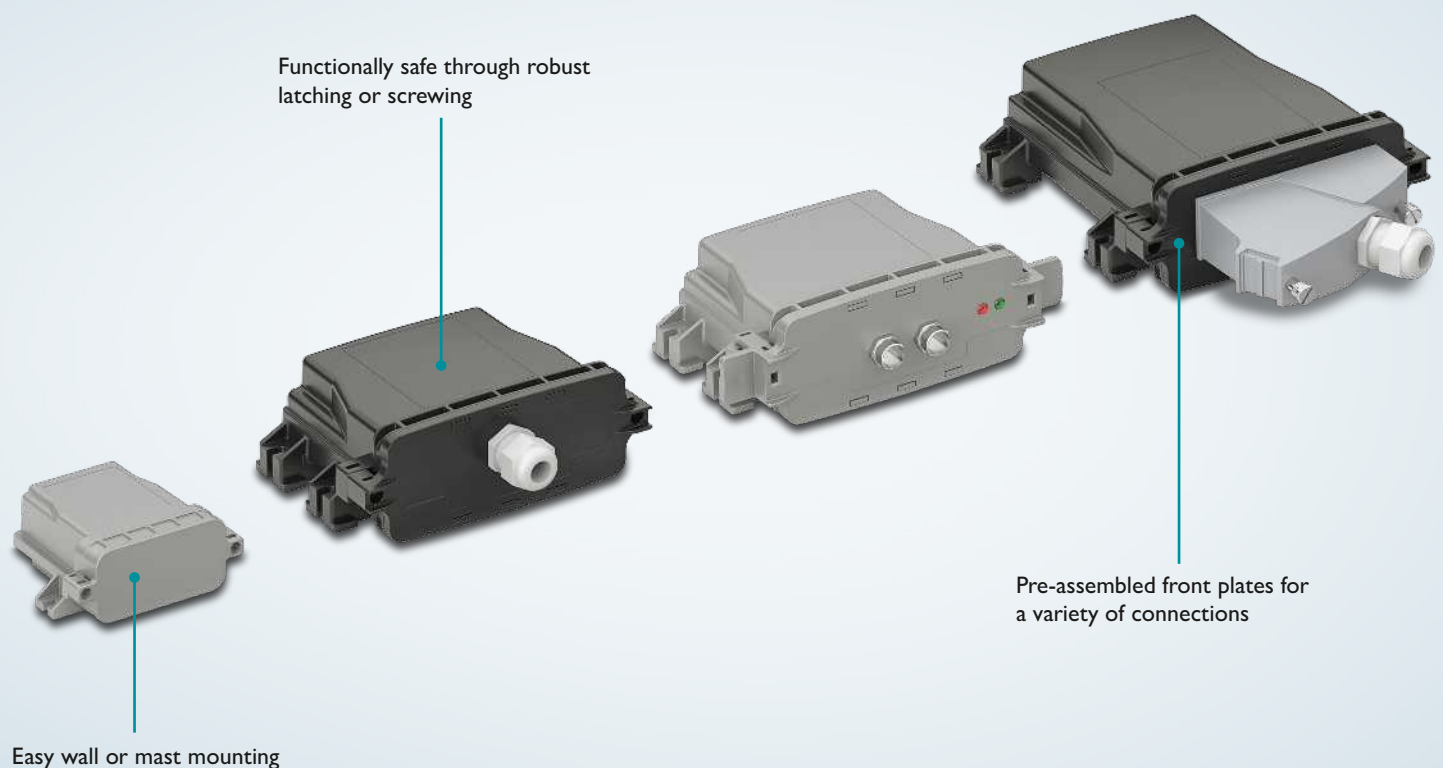
3 Accessories

	EMC seal (optional)	HC-ALU 6- ... SEAL EMC	2200907	2200908	2200909	2200910
	Decorative strip, dark gray, length = 98.4 mm	HC-ALU 6 DECO 100 GY	2200914	2200914	2200914	2200914
	Decorative strip, dark gray, length = 148.4 mm	HC-ALU 6 DECO 150 GY	2200915	2200915	2200915	2200915
	Decorative strip, dark gray, length = 198.4 mm	HC-ALU 6 DECO 200 GY	2200916	2200916	2200916	2200916
	Wall mount, including cover caps, for 100 mm profile length	HC-ALU 6 MOUNT 100 GY	2200911	2200911	2200911	2201327
	Wall mount, including cover caps, for 150 mm profile length	HC-ALU 6 MOUNT 150 GY	2200912	2200912	2200912	2201332
	Wall mount, including cover caps, for 200 mm profile length	HC-ALU 6 MOUNT 200 GY	2200913	2200913	2200913	2201334
	Screwdriver-set, Torx®, incl. TX 10 x 80	SF-TXH SET	1212538	1212538	1212538	1212538
	Bit screwdriver set with quick-action chuck	SF-M SET	1212543	1212543	1212543	1212543

You can find M12 flush-type connectors and cables on our website at phoenixcontact.com.

ECS outdoor housings for harsh operating conditions

Robust outdoor housings from the ECS series are the ideal solution for protecting 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 from -40°C to +100°C, the housings made from UV-stabilized polycarbonate are ideal for challenging ambient conditions. In combination with the integrated pressure compensation membrane, the products in this housing series require no further preparation and are ready to use. Pre-assembled front plates provide ideal support when using various connection technologies.



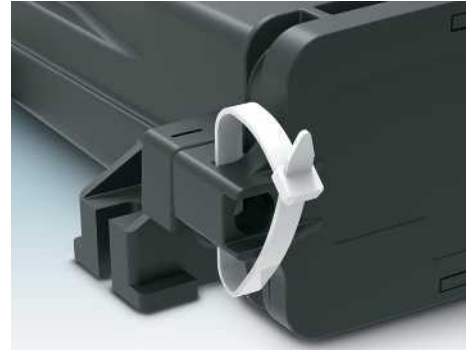
Your advantages



Integrated interlock to protect against unintentional release of the PCB



Optional pressure compensation membrane for ventilated housing versions, pre-mounted

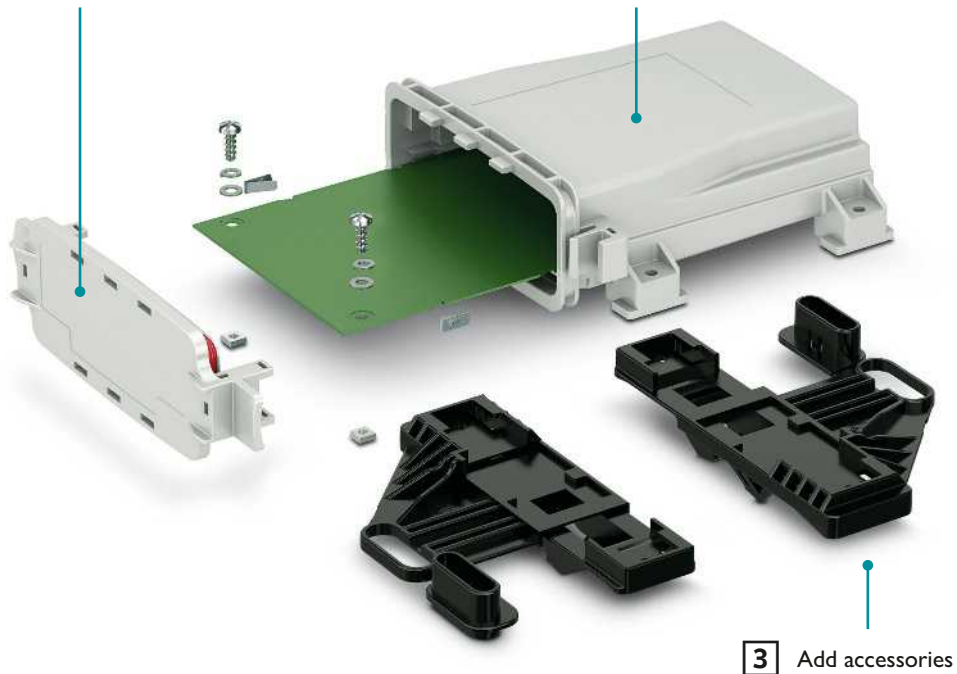


Protection against tampering with a simple seal

Configure your product the way you want

2 Choose the front plate

1 Specify the housing



3 Add accessories

Go directly to the online configurator

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

i Web code: #0512

Housing color options (based on RAL color system):

■ 9005 ■ 7042

Other colors are available on request.

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

Outdoor ECS-EX housings for potentially explosive areas

Outdoor housings of the ECS-EX series are based on the ECS housings with integrated pressure compensation membrane. They are the ideal solution for protecting electronics from dust, dirt, and water in potentially explosive areas. Due to their high IP degrees of protection and a wide temperature range from -40°C to $+100^{\circ}\text{C}$, the housings made from UV-stabilized polycarbonate are ideal for this challenging environment.



Your advantages



Rapid development

The comprehensive range of services for electronics housings simplifies and accelerates the development process.



Coordinated components

A pressure compensation membrane for ventilated housing versions is pre-mounted.



Optimized devices

Simplified device approval thanks to ATEX/IECEx certified housings.

Design your solution for use in potentially explosive environments in accordance with ATEX and IECEx regulations.

ATEX

- II 2G Non-mining, Zone 1 gas
- II 2D Non-mining, Zone 21 dust
- II 3D Non-mining, Zone 22 dust

IECEx

- Ex eb IIC GB increased safety, hydrogen, foreseeable failures
- Ex tb IIIA Db Protection by housing, flammable substances, foreseeable failures
- Ex tc IIIB Dc protection by housing, non-conductive dust, regular use

Find the right connection technology from the PCB terminal blocks and PCB connectors product range.

i Web code: [#0659](#)



Go directly to the online configurator

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

i Web code: [#0512](#)

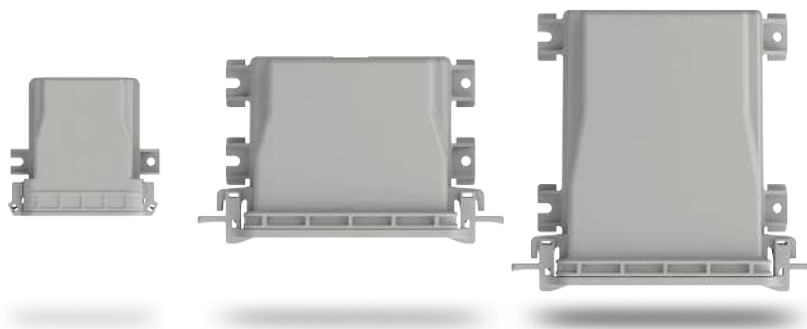
ECS series configuration overview

1 Housing						
	Version	Size (W x H x D)	Ventilation ¹⁾	Color	Item No.	Type
	Snap-in locking	170 mm x 176 mm x 64 mm	•	Black Gray	2230000 1050206	ECS-B-122X169-L-UV1-V ECS-B-122X169-L-UV-V GY
		172 mm x 116 mm x 64 mm	•	Black Gray	1054714 1054702	ECS-B-122X109-L-UV1-V ECS-B-122X109-L-UV-V GY
		170 mm x 176 mm x 64 mm		Black Gray	2230001 1050212	ECS-B-122X169-L-UV1-NV ECS-B-122X169-L-UV-NV GY
		172 mm x 116 mm x 64 mm		Black Gray	1054713 1054705	ECS-B-122X109-L-UV1-NV ECS-B-122X109-L-UV-NV GY
	Screw locking	164 mm x 176 mm x 64 mm	•	Black Gray	2230002 1050209	ECS-B-122X169-S-UV1-V ECS-B-122X169-S-UV-V GY
		164 mm x 116 mm x 64 mm	•	Black Gray	1054710 1054708	ECS-B-122X109-S-UV1-V ECS-B-122X109-S-UV-V GY
		164 mm x 176 mm x 64 mm		Black Gray	2230003 1050207	ECS-B-122X169-S-UV1-NV ECS-B-122X169-S-UV-NV GY
		164 mm x 116 mm x 64 mm		Black Gray	1054711 1054706	ECS-B-122X109-S-UV1-NV ECS-B-122X109-S-UV-NV GY
	Snap-in locking	97 mm x 86 mm x 45 mm		Gray	1186431	ECS-B-64x80-L-UV-NV GY
			•	Gray	1196942	ECS-B-64x80-L-UV-V GY
	Screw locking	97 mm x 86 mm x 45 mm		Gray	1186433	ECS-B-64x80-S-UV-NV GY
			•	Gray	1196941	ECS-B-64x80-S-UV-V GY

¹⁾ Integrated pressure compensation membrane

Size comparison of ECS housings

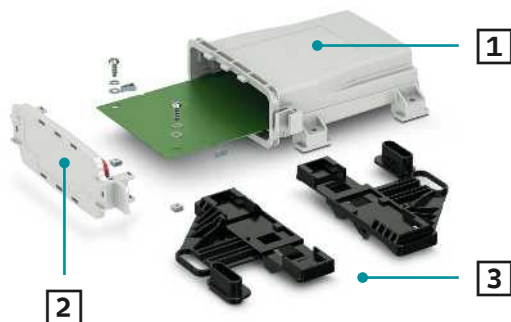
Housings with front plate without connection technology satisfy the requirements for IP65/IP68 and IP69.



2 Front plate

	Version	Size (W x H x D)	Connection	Color	Item No.	Type
	Snap-in locking	196 mm x 34 mm x 62 mm	None	Black Gray	2230004 1050386	ECS-P-122X169-L-UV1-B ECS-P-122X169-L-UV-B GY
	Screw locking	163 mm x 30 mm x 62 mm	None	Black Gray	2230008 1050382	ECS-P-122X169-S-UV1-B ECS-P-122X169-S-UV-B GY
	Snap-in locking	97 mm x 15 mm x 42 mm	None	Gray	1186436	ECS-P-64x80-L-UV-B GY
	Screw locking	97 mm x 15 mm x 42 mm	None	Gray	1186435	ECS-P-64x80-S-UV-B GY
	Snap-in locking	196 mm x 34 mm x 62 mm	1 x M12 nut	Black Gray	2230005 1050385	ECS-P-122X169-L-UV1-1M12 ECS-P-122X169-L-UV-1M12 GY
			2 x M12 nut	Black Gray	2230006 1050384	ECS-P-122X169-L-UV1-2M12 ECS-P-122X169-L-UV-2M12 GY
			Cable gland M20 x 1.5 (6 ... 12 mm)	Black Gray	2230007 1050383	ECS-P-122X169-L-UV1-CG ECS-P-122X169-L-UV-CG GY
	Screw locking	163 mm x 30 mm x 62 mm	1 x M12 nut	Black Gray	2230009 1050381	ECS-P-122X169-S-UV1-1M12 ECS-P-122X169-S-UV-1M12 GY
			2 x M12 nut	Black Gray	2230010 1050379	ECS-P-122X169-S-UV1-2M12 ECS-P-122X169-S-UV-2M12 GY
			Cable gland M20 x 1.5 (6 ... 12 mm)	Black Gray	2230011 1050380	ECS-P-122X169-S-UV1-CG ECS-P-122X169-S-UV-CG GY
			1 x M12 nut and 1 x M12 male	Black	1091841	ECS-P-122X169-S-UV1- 1M1FM12

Configure your product the way you want



Go directly to the online configurator

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

i Web code: #0512

ECS series configuration overview

3 Accessories			
	Description	Item No.	Type
	PCB retaining clip (2 pcs.)	2230012	ECS-BL
	Mounting set for mast mounting (2 pcs.)	2230013	ECS-PM
	Demo PCB (160 x 121 mm)	1004300	ECS-PCB
	Screwdriver, Torx® with bore hole TX 20 x 100	1200151	SF-TXH 20X100
	Stainless steel 1.4401 tamper protection (cable ties)	3240820	WT-STEEL SH 4,6X150
	Signal light, RGB, 5 mm, IP68 (EN 60529)	1082299	HS LCA-RGB-10X5-L
	Male connector for signal light, 4-pos., 2.5 mm pitch	1709460	PTSM 0,5/4-PL-2,5 WH
	Light guide, rigid, transparent, 5.2 mm, IP68 (EN 60529)	1082300	HS LC-V-T-D4X5,2-45
	Light guide with lens, transparent, flexible, 6 mm, IP68 (EN 60529)	1082301	HS LC-F-T-6X3-150
	Sealing plug for cable gland Ø 9 x 16 mm	1400259	SEALING PLUG 9X16 RD
	Screw plug for unused M12 female connectors	1680539	PROT-M12

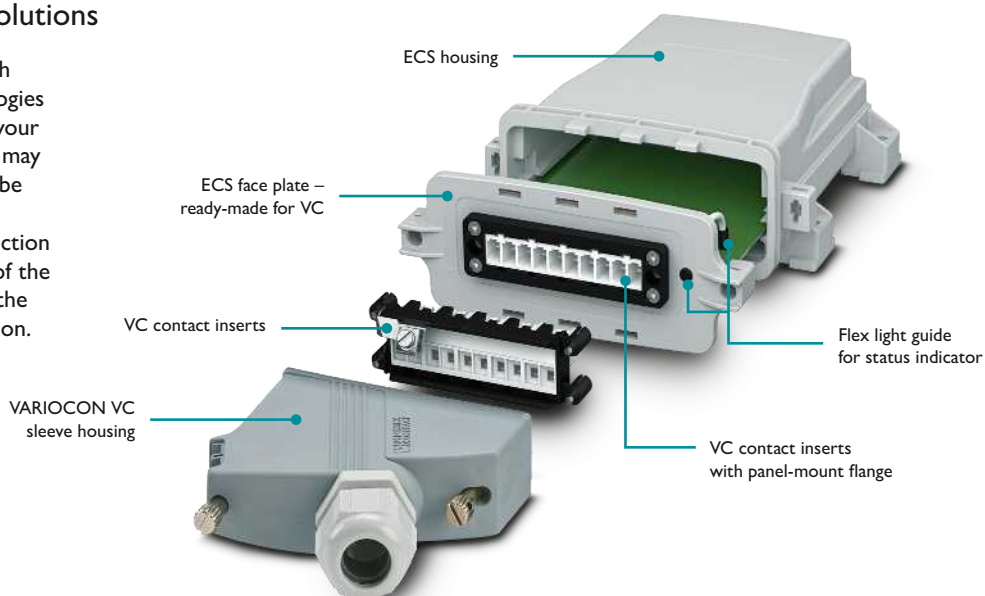
Benefit from ready-made solutions

Ready-made front plates for use with a wide range of connection technologies make it easier for you to configure your devices. For any other versions you may need, our Service Center team will be happy to assist you.

When using front plates with connection technology, the IP protection class of the connection technology determines the protection class of the overall solution.

Find out more about VARIOCON:

i Web code: #0363



Ready-made front plate

	Version	Size (W x H x D)	Connection	Components			
					Item No.:	Type	Description
	Screw locking mechanism	196 x 34 x 62 mm	2 x cable gland M25 x 1.5 (13 ... 18 mm)		1135275	ECS-P-122X169-L-UV1-B M25 / M25	Ready-made ECS face plate
					1424472	G-INS-M25-L68N-PNES-LG	Cable gland M25 RAL 7035
					1417661	A-INL-M25-P-LG	Counter nut M25X1.5 RAL 7035
	Screw locking mechanism	196 x 34 x 62 mm	1 x VARIOCON 4		1143770	ECS-P-122x169-S-UV1-VC4AML2/6	Ready-made ECS face plate
					1853007	VC-AR4/5M	VC 4 panel-mount frame
					1852862	VC-AF	VC panel-mount flange
					1835531	VC-AML 6	VC contact insert
					1852859	VC-AML 2	VC contact insert
					1607178	VC-TR4/5M-PEA-S2222-SET	Contact insert set
					1855133	VC-K-T4-R-M25	Sleeve housing
	Screw locking mechanism	196 x 34 x 62 mm	1 x SUNCLIX male and 1 x SUNCLIX socket		1143769	ECS-P-122x169-S-UV1-2PV	Ready-made ECS face plate
					1034752	PV-FT-C3M-C-6-130-RD-00	Photovoltaic connector
					1034751	PV-FT-C3F-C-6-130-BU-00	Photovoltaic connector
					1719189	SPT 5/1-H-7,5	PCB terminal block
					1785430	PV-C PROTECTION CAP	Protective cap
					1083475	PV-FT-C COLLAR NUT BK	Nut

ECS series configuration overview

Ready-made front plate							
	Version	Size (W x H x D)	Connection	Components			
					Item No.:	Type	Description
	Screw locking mechanism	163 x 30 x 62 mm	2 x RJ45 jack 1 x RJ45 jack		1143740	ECS-P-122X169-S-UV1-2RJ45	Ready-made ECS face plate
					1143761	ECS-P-122x169-S-UV1-1RJ45	Ready-made ECS face plate
					1658655	VS-08-A-RJ45/ LP-1-IP67-BK	Push-pull panel-mount frames
					1658066	VS-08-SD-F-BK	Protective cover
					1653087	VS-08-BU-RJ45-6	RJ45 jack insert
					1414408	CUC-V06-C1PBK-S/ R4CE8:1	RJ45 connector
					2832991	FL RJ45 PROTECT CAP	Dust protection
					1658066	VS-08-SD-BK	Protective cover
	Screw locking mechanism	163 x 30 x 62 mm	1 x PRC male, 5-pos.		1143768	ECS-P-122x169-S-UV1-1PRC	Ready-made ECS face plate
					1409213	PRC 5-FT25-MC6-150	Device connector, rear mounting
					1719228	SPT 5/5-H-7,5-ZB	PCB terminal block
					1409237	PRC COVER M	Protective cap
					1017632	PRC 5-FC-FS6 8-21 HR	Coupler connector
					1457937	FT NUT M25 BK	Nut for mating connector
					1409236	PRC COVER F	Protective cap

Ready-made front plate

	Version	Size (W x H x D)	Connection	Components			
					Item No.:	Type	Description
	Screw locking mechanism	163 x 30 x 62 mm	1 x D-SUB, 25-pos.		1143766	ECS-P-122x169-S-UV1-1DSUB25	Ready-made ECS face plate
					1689886	VS-25-BU-DSUB-ER	D-SUB contact insert
					1689750	VS-25-A	D-SUB panel-mount frame
					1689792	VS-25-T-2M20	D-SUB sleeve housing
					1698873	VS-25 ST-DSUB-ER	D-SUB contact insert
					1652127	VS-M20 (5-13)	D-SUB pressure nut
					1679235	Q-PROT 9/11	Filler plugs

Connection technology

To view the selection of M12 contact inserts, simply enter the web code [#0205](#) on our website at phoenixcontact.com.

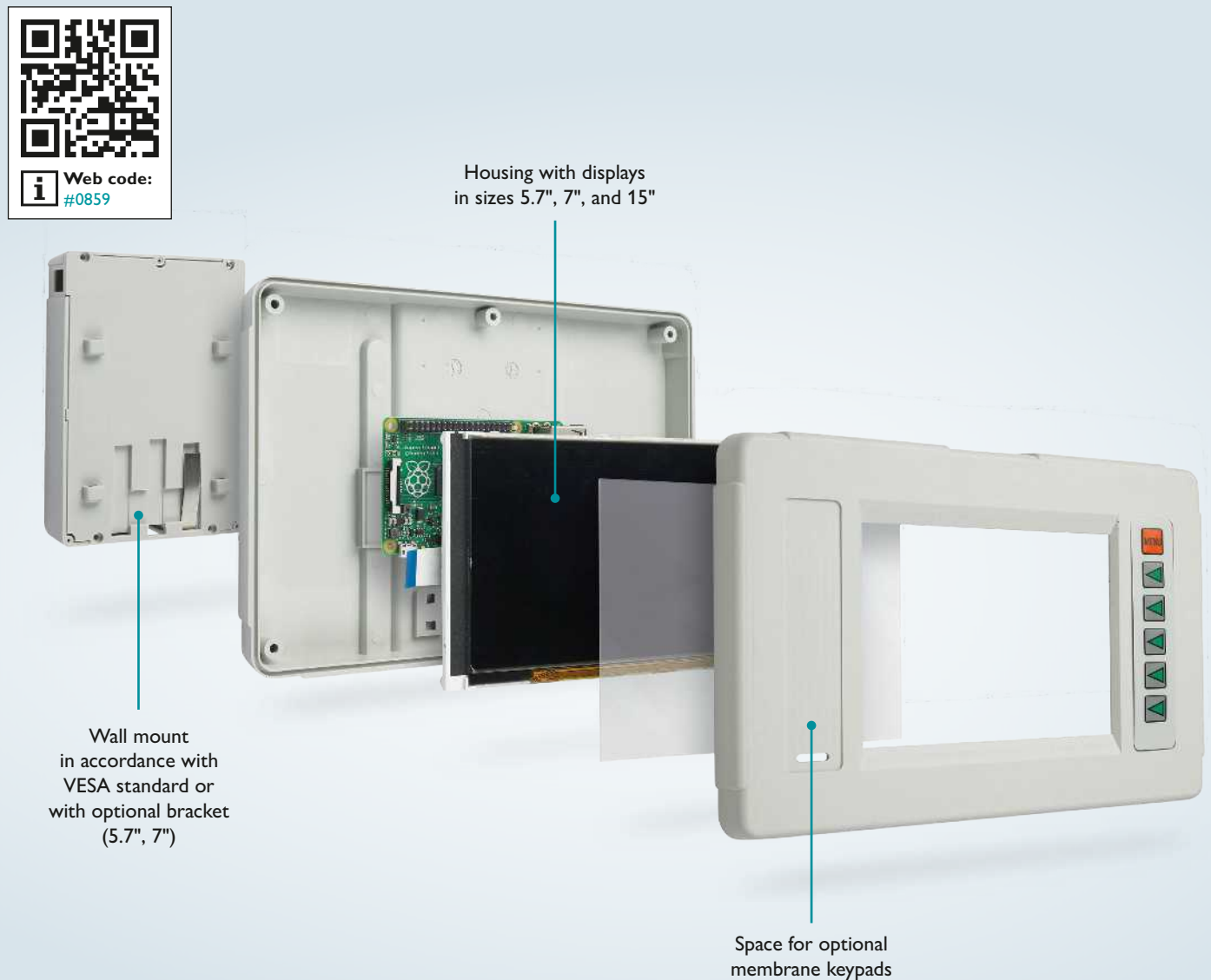
Housing for use in explosive environments

 	Version	Size (W x H x D)	Ventilation ¹⁾	Color	Item No.:	Type
	Snap-in locking	196 mm x 180 mm x 64 mm	●	Black	1292761	ECS-EX 122X169-L-UV1-V
		196 mm x 120 mm x 64 mm	●		1292759	ECS-EX 122X109-L-UV1-V
	Screw locking mechanism	164 mm x 180 mm x 64 mm	●		1292760	ECS-EX 122X169-S-UV1-V
		164 mm x 120 mm x 64 mm	●		1292758	ECS-EX 122X109-S-UV1-V

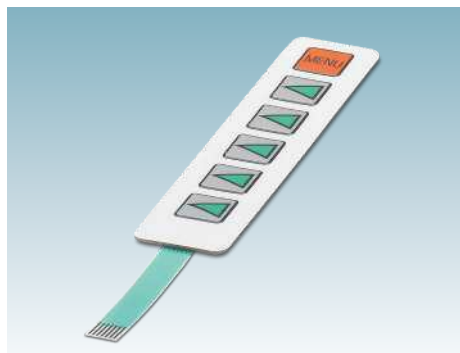
¹⁾ Integrated pressure compensation membrane

DCS display carriers for industrial applications

Display carriers from the DCS series integrate TFT displays of different sizes. They reliably protect mobile and stationary electronics from mechanical stress 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.



Your advantages



Custom-fit membrane keypads, also available with particular specifications



Easy integration of displays with coordinated mounting kits



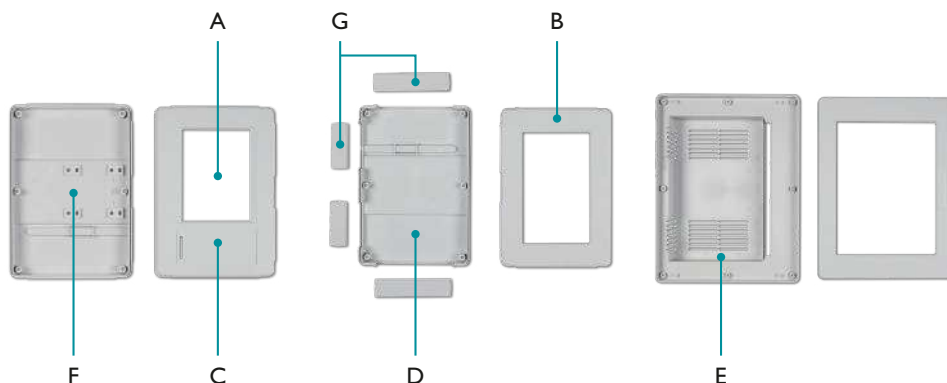
Standard versions for different device interfaces

Configure your product the way you want

1 Select the display size



2 Specify the version



3 Add accessories

Go directly to the online configurator

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

i Web code: #0512

Housing color options (based on RAL color system):

■ 7035

Other colors are available on request.

DCS series configuration overview

1 Housing			
	Display size	Width (w) x Height (h) x Depth (d)	Window Width x Depth
	5.7"	224 mm x 157 mm x 40 mm	118 mm x 88 mm
	7.0"	224 mm x 157 mm x 40 mm	154.4 mm x 93.4 mm
	15"	362 mm x 286 mm x 62 mm	306 mm x 230 mm

2 Version / design		
Front side		
A	B	C
Window position	Surface area	Membrane keypad/ position
Center	Level	
	Recessed 1.1 mm	Right and left
Left		Right
		Right
Center	Level	

3 Accessories							
							
Type	Item No.	Membrane keypad ²⁾	IP54 seal kit (IEC/EN 60529)	Display ¹⁾	Mounting set for display in the housing	Seal for display	Acrylic glass pane with satin finish for display
		KP ...	DCS ... SEAL	D ...	DCS ... D-FIX ...	DCS ... D-SEAL	DCS ... WIN ... CLEAR
DCS 5,7 M C O C 1 7035	2203172		2203584	2203549	2203829	2203749	2203595
DCS 5,7 M C O BP C 7035	2203173						
DCS 5,7 M 1F RL W C 7035	2203174	2203572					
DCS 5,7 L 1F R BP 1 7035	2203175						
DCS 5,7 L 1F R W C 7035	2203176						
DCS 7 M C O C 1 7035	2203183		2203584	2203551	2203830	2203749	2203596
DCS 7 M C O BP C 7035	2203184						
DCS 15 M C O C C 7035	2203189		2203586	2203553	2203831	2203749	2203598
DCS 15 M C O SLV C 7035	2203190						
DCS 15 M C O S C 7035	2203191						

¹⁾ For technical data, see page 140

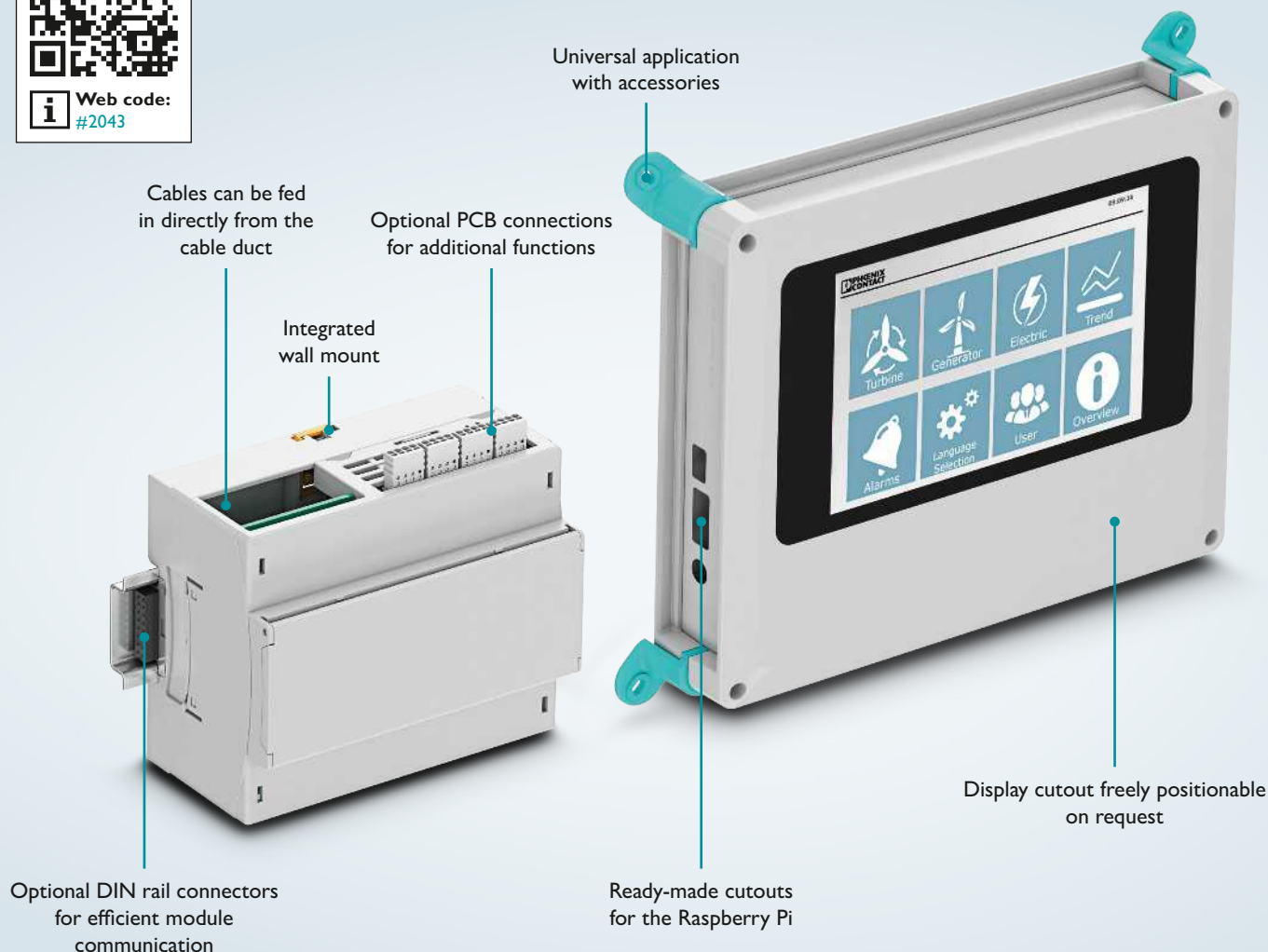
²⁾ For technical data, see page 142

Back side			Face ends		
D	E	F	G		
Wall mount	Vents	Battery compartment	Version	Type	Item No.
			4 x open	DCS 5,7 M C O C 1 7035	2203172
		For APP battery housing	4 x closed	DCS 5,7 M C O BP C 7035	2203173
•			4 x closed	DCS 5,7 M 1F RL W C 7035	2203174
		For APP battery housing	4 x open	DCS 5,7 L 1F R BP 1 7035	2203175
•			4 x closed	DCS 5,7 L 1F R W C 7035	2203176
			4 x open	DCS 7 M C O C 1 7035	2203183
		For APP battery housing	4 x closed	DCS 7 M C O BP C 7035	2203184
			Not relevant	DCS 15 M C O C C 7035	2203189
VESA 75/100	•		Not relevant	DCS 15 M C O SLV C 7035	2203190
			Not relevant	DCS 15 M C O S C 7035	2203191

							
Angle plate for connection technology	Adaptable battery housing	Wall mount	Housing bracket	VESA 100/75 mounting plate	Wall bracket	Profile bracket	Screwdriver
DCS ADAPT CONNECT	DCS B-PACK ENCL F 7035	DCS 5,7-7,0 WALL MOUNT	HS EH-B 140,5 DCS	HS MP VESA 75/100 DCS	HS WM-S 75 DCS	HS PM-S 40 DCS	SF-PH 0
	2203751	2203752					1212558
	2203751	2203752					
	2203751	2203752					
2203750			1082302	1082303	1082304	1082305	

Modular electronics housings for Raspberry Pi applications

Modular electronics housings from the RPI-BC and UCS-RPI series are specifically designed for the integration of Raspberry Pi minicomputers. The RPI-BC housings are designed in accordance with DIN 43880, are alignable, and can be mounted on DIN rails or directly on the wall. Thanks to the comprehensive range of accessories, such as stands, corner guards, and wall and desk adapters, the UCS-RPI can be used universally. Optional interfaces enable simple function extension of the integrated single-board computer.



Your advantages



Individual function extensions with optional interfaces and additional accessories



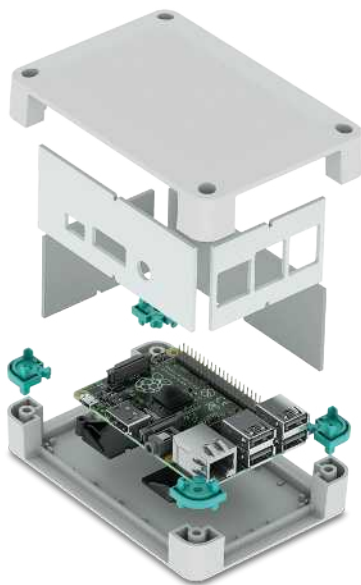
Easy integration of the Raspberry Pi touch display and increased functionality with more space available for individual circuits



16-pos. DIN rail connector for series and parallel module communication

Configure your product the way you want ¹⁾

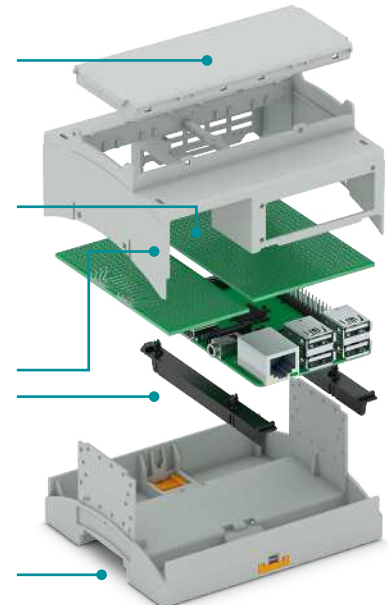
UCS-RPI



1 Select the housing

2 Assemble accessories

RPI-BC



3 Select the housing cover

4 Assemble accessories

1 Select the upper housing part and PCB retainer

2 Select the lower housing part

Go directly to the online configurator

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

i Web code: #0512

Housing color options (based on RAL color system):

■ 9005 ■ 7035

Other colors are available on request.

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

¹⁾ Compatible with Raspberry Pi (A+, B+, B2, B3, and B4)

Set			
	Description	Type	Item No.
	Set, consisting of lower part including base latch, upper part, cover (latched shut), and PCB bracket (fitting Raspberry Pi A+, B+, B2, B3, and B4), color: similar light gray (RAL 7035)	RPI-BC 107,6 DEV-KIT KMGY ¹⁾	2202874
	DIN rail housing for Raspberry Pi computers (suitable for Raspberry Pi A+, B+, B2, B3, and B4), set consisting of HBUS, pin and socket strips, lower part, upper part, cover, perfboard for connecting the HBUS and GPIO strip, housing in accordance with DIN 43880, color: similar to light gray (RAL 7035)	RPI-BC 107,6 EXT DEV-KIT KMGY ¹⁾	1107460
1 Upper housing part and PCB retainer			
	Upper part and PCB retainer, color: similar to jet black (RAL 9005), PCB holder, color: similar to anthracite gray (RAL 7016)	RPI-BC 107,6 DEV-KIT KMGY P10	2202875
		RPI-BC 107,6 DEV-KIT BK P10	1227311
2 Lower housing part			
	Lower part including base latch, color: similar to light gray (RAL 7035)	BC 107,6 UT HBUS KMGY	2202951
	Lower part including base latch, color: similar to jet black (RAL 9005)	BC 107,6 UT HBUS BK	2896270
3 Housing cover			
	Transparent cover (swiveling) and plate	BC 107,6 DKL S TRANS	2896131
	Cover (securely snapped in), color: similar to light gray (RAL 7035)	BC 107,6 DKL R KMGY	2896173
4 Accessories			
	Adapter for use of the Raspberry Pi A+, color: similar to light gray (RAL 7016)	RPI-BC A+-ADAPTER ATGY	2202906
	DIN rail connector HBUS 107,6 without pin strip, color: similar to jet black (RAL 9005)	HBUS 107,6-16P-1S BK P1	2202876
	PCB with HBUS connection including pin strip, with hole pattern	RPI-BC EXT-PCB HBUS SET	2202995
	PCB with GPIO connection and soldering rings for PTSM terminal blocks, including socket strips and PTSM terminal blocks, with hole pattern	RPI-BC INT-PCB SET	2202994
	Female strip for connecting an additional PCB or PCB with hole pattern to the GPIOs of the Raspberry Pi computer	PSTD 0,65X0,65 / 40-2,54	2202992
	Pin strip for connecting an additional PCB or PCB with hole pattern to the HBUS	PSTD 0,65X0,65 / 18-3IS-2,54	2202993

¹⁾ When using the RPI B4, the 3.5 mm female connector can only be used for male connectors with an outside diameter of up to 5.8 mm (incl. insulation).

1 Complete housing

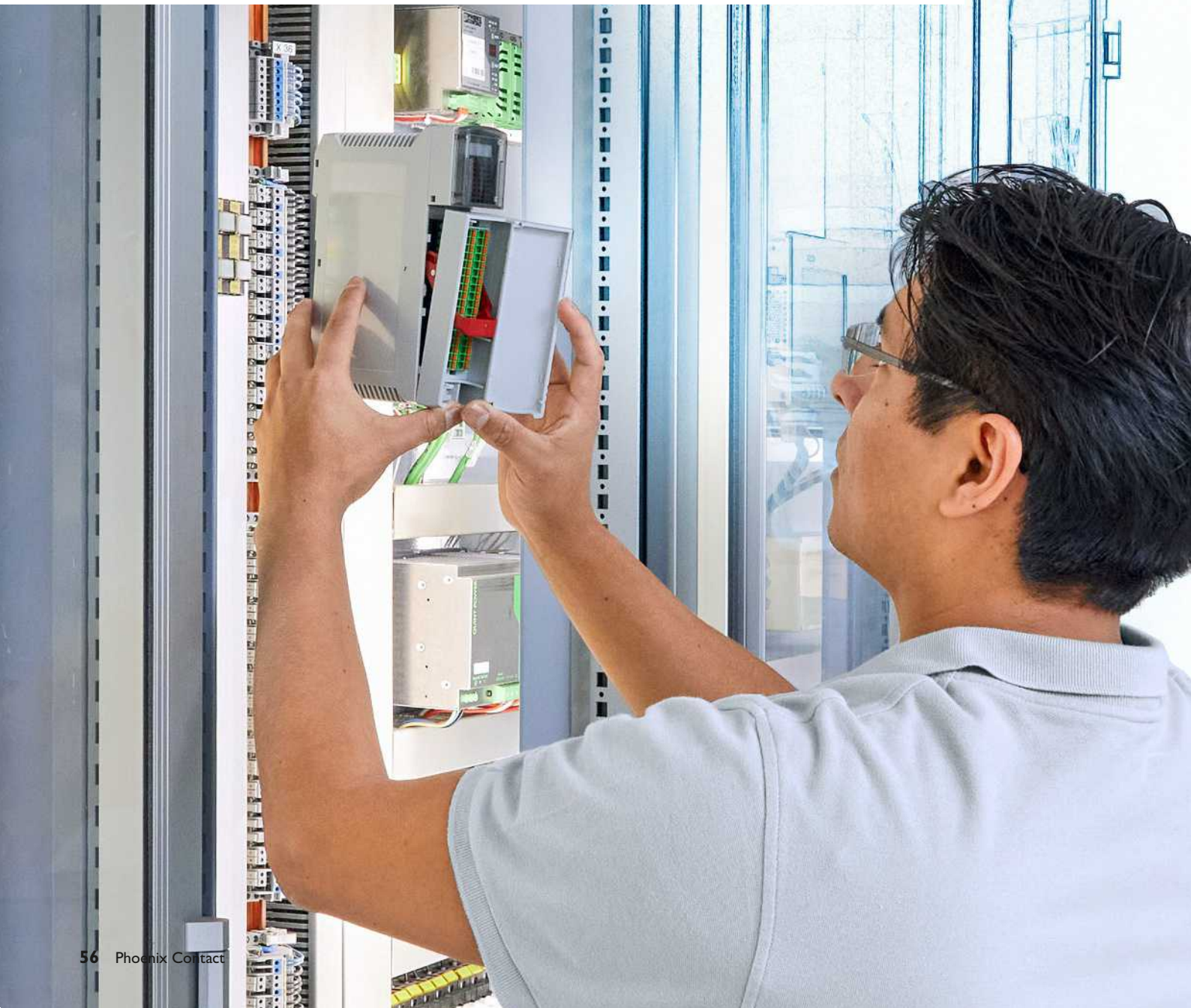
	Description	Form factor	Type	Color	Item No.
	Complete housing for the Raspberry Pi computer, adhesive strips for integrating the display, screws for attaching the housing and PCB, with turquoise blue corner inserts	Raspberry Pi B2 and B3	UCS 237-195-F-GD-RPI-DT7 7035	Light gray (RAL 7035)	1104780
			UCS 237-195-F-GD-RPI-DT7 9005	Jet black (RAL 9005)	1104781
	Complete housing with adhesive pads for affixing the Raspberry Pi computer, side panels with openings for all relevant connections, screws for attaching the housing and PCB, with turquoise blue corner inserts	Raspberry Pi B2 and B3	UCS 125-87-F-GD-RPI 7035	Light gray (RAL 7035)	1019724
			UCS 125-87-F-GD-RPI 9005	Jet black (RAL 9005)	1019723
		Raspberry Pi B4	UCS 125-87-F-GD-RPI4B 7035	Light gray (RAL 7035)	1139227
			UCS 125-87-F-GD-RPI4B 9005	Jet black (RAL 9005)	1139237
	Complete housing with adhesive pads for affixing the Raspberry Pi computer, side panels with openings for all relevant connections, screws for attaching the housing and PCB, with turquoise blue corner inserts	Raspberry Pi B2 and B3	UCS 145-125-F-GD-RPI 7035	Light gray (RAL 7035)	1019749
			UCS 145-125-F-GD-RPI 9005	Jet black (RAL 9005)	1019720
		Raspberry Pi B4	UCS 145-125-F-GD-RPI4B 7035	Light gray (RAL 7035)	1139240
			UCS 145-125-F-GD-RPI4B 9005	Jet black (RAL 9005)	1139242

2 Accessories

	Description	Type	Color	Item No.
	Basic wall bracket			
	Adapter for attaching the UCS housing to the wall. Used instead of corner insert. Only in conjunction with UCS GD 9005.	UCS WM-B 5018	Light gray (RAL 7035)	2203718
		UCS WM-B 5018	Jet black (RAL 9005)	2203719
		UCS WM-B 5018	Turquoise blue (RAL 5018)	2203391
	Stand			
	Stand for holding the UCS housing. Snaps into the housing screw holes.	UCS PED 7035	Light gray (RAL 7035)	2203392
		UCS PED 7035	Jet black (RAL 9005)	2203393
		UCS PED 5018	Turquoise blue (RAL 5018)	2203394
	Corner guards			
	Adapter for protecting the corners of the UCS housing. Held in place in the housing screw holes.	UCS CP 7035	Light gray (RAL 7035)	2203346
		UCS CP 9005	Jet black (RAL 9005)	2203347
		UCS CP 5018	Turquoise blue (RAL 5018)	2203348
	Stack corners			
	Adapter for stacking several UCS housings of the same size. Held in place in the housing screw holes.	UCS CS 7035	Light gray (RAL 7035)	2203720
		UCS CS 9005	Jet black (RAL 9005)	2203721
		UCS CS 5018	Turquoise blue (RAL 5018)	1029039
	DIN rail adapter			
	DIN rail adapter for mounting a UCS 125-87-F housing (long side) or UCS 145-125-F (short side) on an NS 35 DIN rail. Used in place of a UCS SW 125 side panel in the housing.	UCS DIN 125-F 7035	Light gray (RAL 7035)	2203838
	DIN rail adapter for mounting a UCS 145-125-F housing (long side) on an NS 35 DIN rail. Used in place of a UCS SW 145 side panel in the housing.	UCS DIN 145-F 7035	Light gray (RAL 7035)	2203839

Overview of DIN rail housings

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

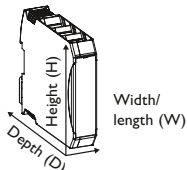


DIN rail housing product navigator

Product family	EH	ICS	ME	ME MAX	ME-IO	ME-PLC	BC	UM PRO/ BASIC	UM-ALU
Pages	60–65	66–81	82–89	90–97	98–105	106–109	110–121	122–133	134–137
									
Connection technology									
Connection dir. front					●	●	●	●	●
Connection dir. top/bottom	●	●	●	●			●	●	●
Push-in conductor connection		●	●	●	●	●	●	●	●
Screw conductor connection	●	●	●	●			●	●	●
Connectors with header		●	●	●	●	●		●	●
PCB terminal blocks	●		●	●			●	●	●
THR			●	●	●			●	●
Locking function					●	●			
PCB integration									
Orthogonal	●				●		●	●	●
Vertical	●	●	●	●	●	●	●		
Connection technology									
Cond. cross-section >2.5 mm ²								●	●
Cond. cross-section 2.5 mm ²	●	●	●	●	●	●	●	●	●
Cond. cross-section 1.5 mm ²	●	●	●	●	●	●	●	●	●
RJ45		●			●	●	●	●	●
Antenna, D-SUB, USB		●						●	●
Individual	●	●	●	●	●	●	●	●	●
Housing structure									
Extruded profile								●	●
Half shells				●		●			
Modular electronics housing	●	●	●		●		●		
Integratable standard components¹⁾									
Keypad		●					●		●
Displays		●	●	●	●		●		
Heatsinks		●							
Light guides	●	●	●	●	●	●	●	●	●
Services									
Automated thermal simulation		●							
Custom cover		●							

¹⁾ Custom solutions available on request

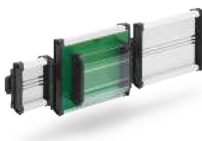
Overview of DIN rail housings

		Basic housings	Modular housings		
					
Housing series		EH	ICS	ME	ME MAX
 Web code		#0387	#1636	#0305	#0306
Installation on DIN rail (NS) DIN EN 60715		NS 35	NS 35	NS 35	NS 35
Temperature range for operation [°C]		-40 ... +80	-40 ... +105	-40 ... +105	-40 ... +105
Degree of protection i.a.w. DIN EN 60529		IP20	IP20	IP20	IP20
 Dimensions	Width [mm]	22.5/35/45/52.5/67.5 70/90	20/25/50	12.5/17.5/22.5 35/45/67.5/90	6.2/12.5/17.5/22.5 35/45/67.5/90
	Length [mm]				
	Depth [mm]	53.5/110.5	87.5/110/132.5	92/106/114.5	70.4/92/114.5
	Height [mm]	75.4	77.5/100/122.5	99	85/99
Maximum usable PCB surface [mm ²]		5,600 ... 7,200	3,500 ... 22,000	2,000 ... 6,600	3,400 ... 8,500
Power dissipation	Max. dissipated power [W] in direct apposition	4.4 ... 10.4	5.2 ... 10.4	5.2 ... 10.4	5.2 ... 8.2
PCB connection	Max. no. of pos. for 3.5 mm pitch	5 ... 21	5 ... 80	5 ... 40	18 ... 120
	Max. no. of pos. for 5.0 mm pitch	4 ... 17	4 ... 64	4 ... 32	8 ... 96
	Max. no. of pos. for 7.25 mm and 7.5 mm pitch			3 ... 24	12 ... 72
Bus connector	Type		DIN rail connector	DIN rail connector ¹⁾ integr. Cross-connector ²⁾	DIN rail connector ¹⁾ , power bus connector (PCO) ³⁾
	Type		TBUS8 20/TBUS8 25	ME 17,5 TBUS ¹⁾ ME 22,5 TBUS ¹⁾	ME 6,2 TBUS ¹⁾ ME 17,5 TBUS ¹⁾ ME 22,5 TBUS ¹⁾ PBR ³⁾
	Number of positions		8	5 ¹⁾ 5/5+2/10/10+2 ²⁾	5 ¹⁾ 2 ³⁾
	Current carrying capacity (depends on the derating)		Max. 8 x 6 A, <30 V	Max. 5 x 8 A, 125 V DC ¹⁾ Max. 5 x 8 A, 125 V DC ²⁾	Max. 5 x 8 A, 125 V DC ¹⁾ 42 A, 60 V DC ³⁾
Material	Designation	ABS/ABS PC blend (acrylonitrile butadiene styrene)	PA (polyamide)	PA (polyamide)	PA (polyamide)
	Flammability rating UL 94	HB/V0 (UL 94)	V0 (UL 94)	V0 (UL 94)	V0 (UL 94)
Grounding (optional)			Functional ground (FE)	Functional ground (FE)	Functional ground (FE)
Sample set		52006670	1047838	52005214	52005224
See page		60	66	82	90

¹⁾ All information relates to the TBUS DIN rail connector

²⁾ All information relates to the integrated cross-connector

³⁾ PBR power connector with PCO connection technology

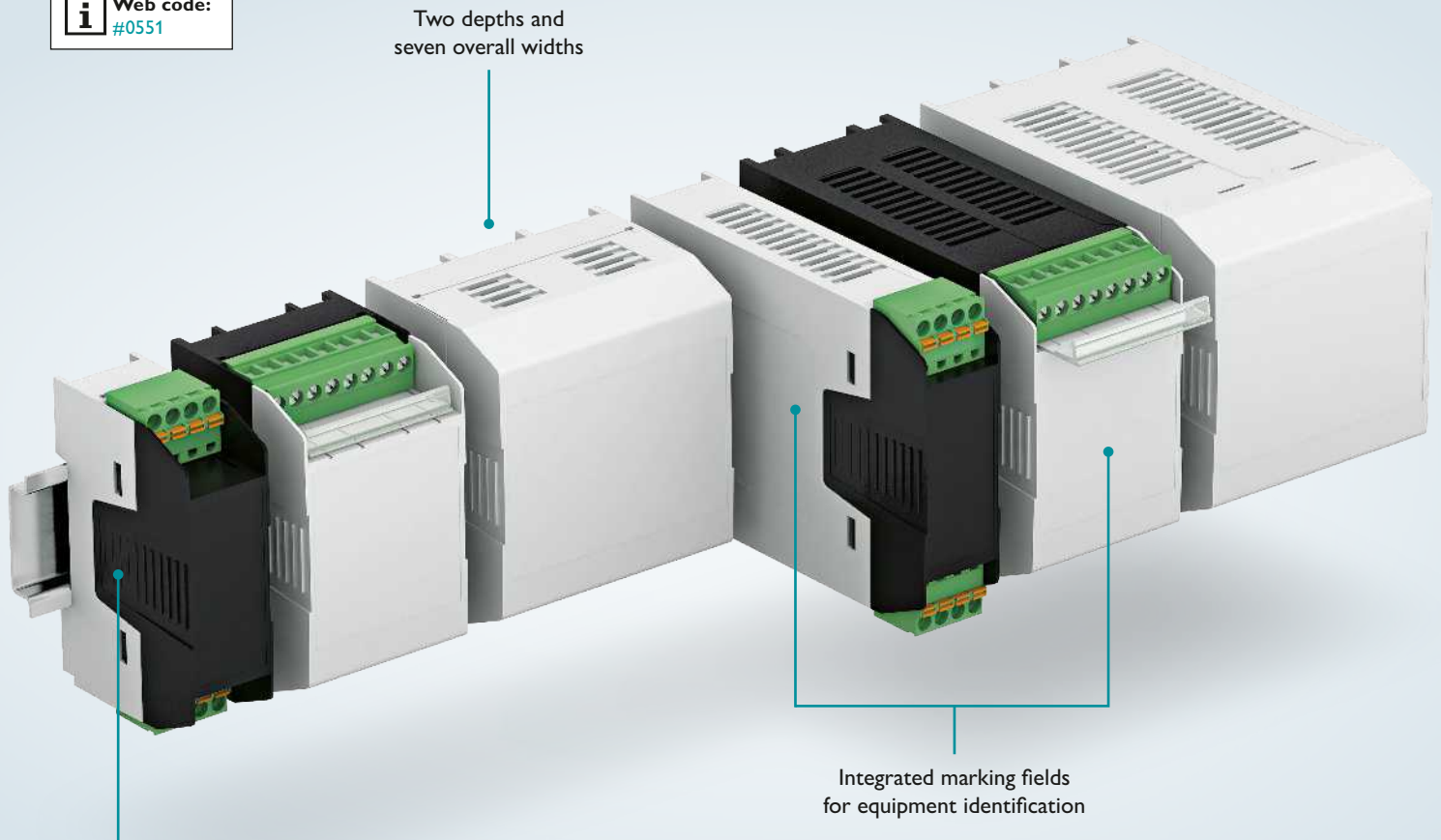
Multifunctional housings		Modular building installation housings		Extruded profile housings	
					
ME-IO	ME-PLC	BC	RPI-BC	UM-BASIC/UM-PRO	UM-ALU
#0308	#0309	#0311	#0664	#0313 / #0314	#0315
NS 35	NS 105 or 2 x NS 35	NS 35	NS 35	NS 35	NS 35
-40 ... +105	-40 ... +105	-40 ... +105	-40 ... +105	-15 ... +50 / -40 ... +105	-40 ... +100
IP20	IP20	IP20	IP20	IP00	IP20
18.8 / 37.6 / 75.2	40	17.8 (1HP) to 161.6 (9HP)	107.6 (6HP)		
				30 ... 1,000	42.5 ... 990
77	159	62.2	62.2	40	33
113 / 124	180	89.7	89.7	72 / 108 / 122 Internal dimensions of the PCB holder	72 / 100.5 Internal dimensions of the PCB holder
3,370 ... 6,483	15000	2,200 ... 13,000	Raspberry Pi boards plus 8200	700 ... 1,200 / cm	3000 ... 97000 / cm
2.8	Approx. 25	2.95 ... 16.95	13.08		
54	Optional assembly	Optional assembly	Optional assembly	Optional assembly	Optional assembly
36	Optional assembly	Optional assembly		Optional assembly	Optional assembly
	Optional assembly	Optional assembly		Optional assembly	Optional assembly
DIN rail connector	DIN rail connector (only with TS 105)	DIN rail connector	DIN rail connector		
ME 18,8 TBUS 1,5 / 5 TBUS8 18,8	ME PLC 40 BUS 10 ⁴⁾ ME PLC 40 BUS 50 ⁵⁾	HBUS	HBUS	Optional assembly	
5 8	10 ⁴⁾ 50 ⁵⁾	16	16	Optional assembly	
Max. 8 x 6 A, <30 V	8 A, 160 V ⁴⁾ 1 A, 30 V ⁵⁾	Max. 3 A / pos., 60 V DC	Max. 3 A / pos., 60 V DC	Optional assembly	
PA (polyamide)	PC (polycarbonate)	PC (polycarbonate)	PC (polycarbonate) / PA (polyamide)	PVC (polyvinyl chloride) / reinforced PA (polyamide)	Anodized aluminum (Al Mg Si0.5) Cover: PA (polyamide)
V0 (UL 94)	V0 (UL 94)	V0 (UL 94)	V0 (UL 94)	V0 (UL 94)	Cover: V0 (UL 94)
Functional ground (FE)	Functional ground (FE)			Potential earth ground (PE)	Potential earth ground (PE)
52005220	52003927	52005225	52007812	52005309	52002012
98	106	110	52	122	134

⁴⁾ ME-PLC-BUS DIN rail connector, 10-pos.

⁵⁾ ME-PLC-BUS DIN rail connector, 50-pos.

EH basic housings for universal applications

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



Housing parts latch together
without the need for tools

Integrated marking fields
for equipment identification

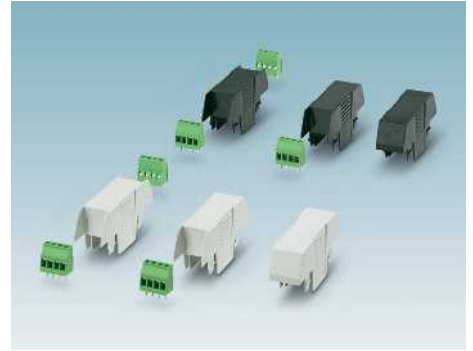
Your advantages



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

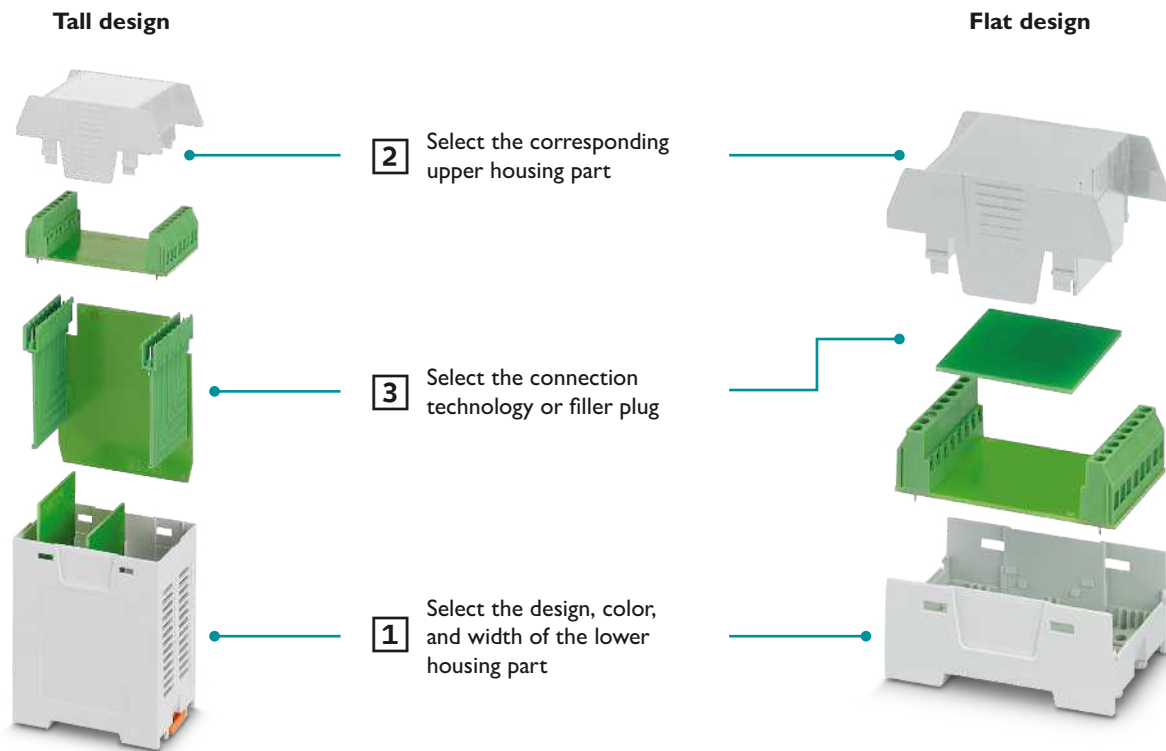


DIN rail or wall mounting for application-specific device attachment



Three cover versions for individual PCB connections

Configure your product the way you want



Go directly to the online configurator

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

i Web code: #0512

Housing color options (based on RAL color system):

■ 7035 ■ 9005

Other colors are available on request.

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

EH series configuration overview

1 Lower housing part					2 Upper housing part					
Lower housing part design	Color	Housing width	Item No.		One side open		Both sides open		Both sides closed	
										
			EH ... B ...		EH ... -C SS ...		EH ... -C DS ...		EH ... -C CS ...	
			Material: ABS	Material: ABS-PC	Material: ABS	Material: ABS-PC	Material: ABS	Material: ABS-PC	Material: ABS	Material: ABS-PC
			Flamma- bility rating HB	Flamma- bility rating V0	Flamma- bility rating HB	Flamma- bility rating V0	Flamma- bility rating HB	Flamma- bility rating V0	Flamma- bility rating HB	Flamma- bility rating V0
 Tall design, overall depth (lower part + upper part): 110.5 mm	Light gray (similar to RAL 7035)	22.5 mm	2201248	1025838	2201250	1075366	2201251	1025865	2201252	1026264
		35 mm	2201738	1069974	2201744	1069978	2201750	1069984	2200241	1069990
		45 mm	2201483	1026283	2201509	1029835	2201512	1029844	2201513	1069876
		52.5 mm	2201741	1070996	2201747	1071054	2201753	1071067	2200324	1071087
		67.5 mm	2201485	1069884	2201515	1069887	2201518	1069888	2201520	1069889
		70 mm	2201742	1071110	2201748	1071115	2201754	1071125	2200397	1071127
		90 mm	2201487	1069900	2201523	1069907	2201525	1069915	2201526	1069919
										
 Tall design, overall depth (lower part + upper part): 110.5 mm	Black (similar to RAL 9005)	22.5 mm	2201249	1025842	2201253	1025855	2201254	1025889	2201255	1026270
		35 mm	2201739	1069975	2201745	1069992	2201751	1069993	2200253	1070717
		45 mm	2201484	1026308	2201510	1069879	2201511	1039826	2201514	1069883
		52.5 mm	2201740	1071042	2201746	1071092	2201752	1071101	2200336	1071102
		67.5 mm	2201486	1069885	2201516	1069890	2201517	1069893	2201521	1069894
		70 mm	2201743	1071114	2201749	1071128	2201755	1071132	2200461	1071138
		90 mm	2201488	1069903	2201522	1069924	2201524	1069938	2201527	1069971

3 Connection technology

	PCB terminal blocks		Headers						Filler plugs		
Pitch	5.08 mm	5 mm	5 mm	5.08 mm	5.08 mm	5.08 mm		3.5 mm	3.5 mm		
Mounting position	Horizontal	Horizontal	Horizontal	Horizontal	Vertical	Vertical		Vertical	Vertical		
											
										EH ... FP ...	
Type	MKDS 3/...	MKKDSH 3/...	MSTBV 2,5/...	MSTBV 2,5/...	MSTBO 2,5/...	MSTBO 2,5/...	Type	MCO-EH 1,5/...	MCO-EH 1,5/...	Material: ABS	Material: ABS-PC
Version					Left	Right	Version	Left	Right	Flammability rating HB	Flammability rating V0
4-pos., green	1712805	2 x 1721045	1753479	1758034	1850453	1847123	5-pos., light gray	2202330	2202331		
6-pos., green	1701144	2 x 1721346	1753518	1758050	1850479	1847149				2201840	1071142
8-pos., green	1712708	1703283	1753550	1758076	1850495	1847165	5-pos., light gray (2 pieces required)	2202330	2202331	2201843	1071139
9-pos., green	1707331	On request	1753576	1758089	On request	On request				2201840	1071142
12-pos., green	1714308	On request	1753631	1758115	On request	On request				2201843	1071139
13-pos., green	On request	On request	1753657	1758128	On request	On request				2201840	1071142
17-pos., green	On request	On request	1753738	1758160	On request	On request				2201843	1071139
											
4-pos., green	1712805	2 x 1721045	1753479	1758034	1850453	1847123	5-pos., black	2202333	2202332		
6-pos., green	1701144	2 x 1721046	1753518	1758050	1850479	1847149				2201841	1071147
8-pos., green	1712708	1703283	1753550	1758076	1850495	1847165	5-pos., black (2 pieces required)	2202333	2202332	2201842	1071144
9-pos., green	1707331	On request	1753576	1758089	On request	On request				2201841	1071147
12-pos., green	1714308	On request	1753631	1758115	On request	On request				2201842	1071144
13-pos., green	On request	On request	1753657	1758128	On request	On request				2201841	1071147
17-pos., green	On request	On request	1753738	1758160	On request	On request				2201842	1071144

EH series configuration overview

1 Lower housing part					2 Upper housing part					
Lower housing part design	Color	Housing width	Item No.		One side open		Both sides open		Both sides closed	
										
			EH ... F-B ...		EH ... F-C SS		EH ... F-C DS		EH ... F-C CS	
			Material: ABS	Material: ABS-PC	Material: ABS	Material: ABS-PC	Material: ABS	Material: ABS-PC	Material: ABS	Material: ABS-PC
			Flammability rating HB	Flammability rating V0	Flammability rating HB	Flammability rating V0	Flammability rating HB	Flammability rating V0	Flammability rating HB	Flammability rating V0
	Light gray (similar to RAL 7035)	22.5 mm	2200665	1071148	2200674	1071151	2201453	1034687	2201653	1074973
		35 mm	2201814	1074877	2201820	1075106	2201826	1074870	2201832	1074866
		45 mm	2200474	1074969	2200789	1074967	2201770	1074966	2201769	1074965
		52.5 mm	2201816	1074838	2201822	1074796	2201829	1074802	2201835	1074794
		67.5 mm	2200519	1074952	2201097	1074949	2201773	1074950	2201774	1074947
		70 mm	2201819	1074753	2201825	1074751	2201830	1074750	2201836	1074747
		90 mm	2200663	1074941	2201282	1074935	2201778	1074934	2201777	1074933
										
	Black (similar to RAL 9005)	22.5 mm	2200666	1071149	2201452	1074972	2201456	1074971	2201765	1074970
		35 mm	2201815	1074875	2201821	1074862	2201827	1074857	2201833	1074849
		45 mm	2200492	1074968	2201448	1074964	2201771	1074963	2201766	1074956
		52.5 mm	2201817	1074813	2201823	1074788	2201828	1074755	2201834	1074754
		67.5 mm	2200520	1074951	2201447	1074942	2201772	1074945	2201775	1074946
		70 mm	2201818	1074752	2201824	1074749	2201831	1074748	2201837	1074746
		90 mm	2200664	1074938	2201388	1075103	2201779	1074882	2201776	1074880

3 Connection technology

	PCB terminal blocks		Headers						Filler plugs	
Pitch	5.08 mm	5 mm	5 mm	5.08 mm		5 mm		3.81 mm		
Mounting position	Horizontal	Horizontal	Horizontal	Horizontal		Horizontal		Horizontal		
										
									EH ... F-FP ...	
Type	MKDS 3/...	MKKDSH 3/...	MSTBV 2,5/...	MSTBV 2,5/...	Type	PST 1,3/...		MCV 1,5/...	Material: ABS	Material: ABS-PC
									Flamma- bility rating HB	Flamma- bility rating V0
4-pos., green	1712805	2 x 1721045	1753479	1758034	4-pos., black	1933202	5-pos., green	1803455		
6-pos., green	1701144	2 x 1721346	1753518	1758050	6-pos., black	1933228	8-pos., green	1803484	2201847	1074611
8-pos., green	1712708	1703283	1753550	1758076	8-pos., black	1933244	10-pos., green	1803507	2201844	1074622
9-pos., green	1707331	On request	1753576	1758089	9-pos., black	1933257	12-pos., green	1803523	2201847	1074611
12-pos., green	1714308	On request	1753631	1758115	12-pos., black	1933286	16-pos., green	1803565	2201844	1074622
13-pos., green	On request	On request	1753657	1758128	12-pos., black	1933299	16-pos., green	1803565	2201847	1074611
17-pos., green	On request	On request	1753738	1758160	17-pos., black	1935556	21-pos., green	On request	2201844	1074622
										
4-pos., green	1712805	2 x 1721045	1753479	1758034	4-pos., black	1933202	5-pos., green	1803455		
6-pos., green	1701144	2 x 1721046	1753518	1758050	6-pos., black	1933228	8-pos., green	1803484	2201846	1074614
8-pos., green	1712708	1703283	1753550	1758076	8-pos., black	1933244	10-pos., green	1803507	2201845	1074664
9-pos., green	1707331	On request	1753576	1758089	9-pos., black	1933257	12-pos., green	1803523	2201846	1074614
12-pos., green	1714308	On request	1753631	1758115	12-pos., black	1933286	16-pos., green	1803565	2201845	1074664
13-pos., green	On request	On request	1753657	1758128	12-pos., black	1933299	16-pos., green	1803565	2201846	1074614
17-pos., green	On request	On request	1753738	1758160	17-pos., black	1935556	21-pos., green	On request	2201845	1074664

ICS modular housings with variable connection technology

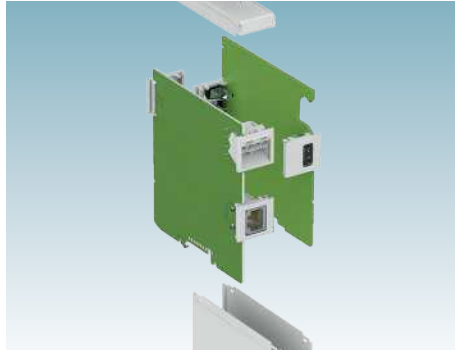
The solutions made possible by the ICS modular housing system are as varied as the requirements for future-oriented automation devices. Benefit from a housing system with graduated sizes, variable connection technology, and optional eight-pos. DIN rail connectors. Passive heatsinks enable the finished devices to be used in thermally demanding applications. Incorporating displays or individually configurable membrane keypads will make your devices more user-friendly.



Your advantages



Standardized connections such as RJ45, USB, D-SUB, and antenna sockets as integrable components and also touch-proof male headers

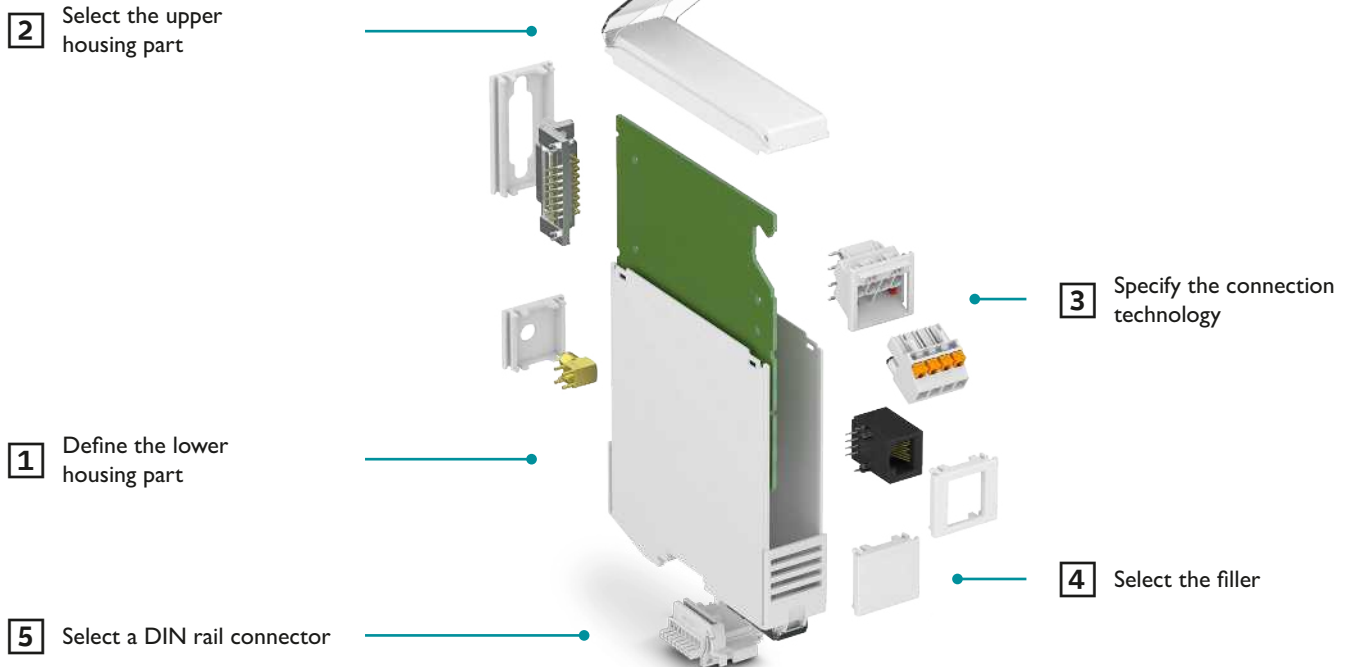


Optimum use of space by accommodating up to two PCBs per basic housing width



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

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

i Web code: [#0512](#)

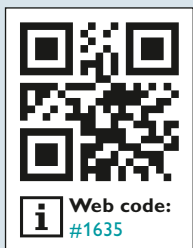
Housing color options (based on RAL color system):
 7035 9005 5015 1018
 Other colors are available on request.

Test the ICS series and get in touch with your sales contact person (sample set: [1047838](#)).

ICS modular housings with individual front designs

The ICS housing system can be configured quickly and easily with an extensive selection of different sizes, variable connection technology, and optional bus connectors. The ICS Cover Designer is available to you immediately and enables you to create an unmistakable cover design. In just a few steps, you can order your individual design as a 3D print – followed by prototype deliveries and subsequent series production.

The custom front design is available for housing widths of 20, 25, and 50 mm.



new



Your advantages



Comprehensive portfolio

A large selection of standard products is available for you to use and configure for your specific application in the configurator.



Quick and easy prototyping

Make use of the additive manufacturing process available from PROTIQ, our marketplace for 3D printing, when creating your prototype.



Professional series production

Once you have chosen the cover, series production can begin.

Configure your product the way you want



1. Configure the ICS housing: Configure the ICS housing system in different sizes and with variable connection technology.
2. Design your housing cover: Would you like a custom cover? Just go automatically to the ICS cover designer and put together your own design intuitively. You can then order an additively manufactured prototype from our cooperation partner PROTIQ in a quantity of one and have it conveniently delivered to you.
3. Authorize series production: Once you have decided on a design, an experienced team of specialists will be on hand to assist you with all subsequent steps.

Go directly to the online configurator

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

 **Web code: #0512**

Contact

Service Center

Phone: +49 5235 3-43086

E-mail: housing-modification@phoenixcontact.com

ICS Cover Designer

If you would like to create an ICS housing cover directly, you can use the ICS Cover Designer by PROTIQ at <https://www.protiq.com/en/ics-cover-configurator>.

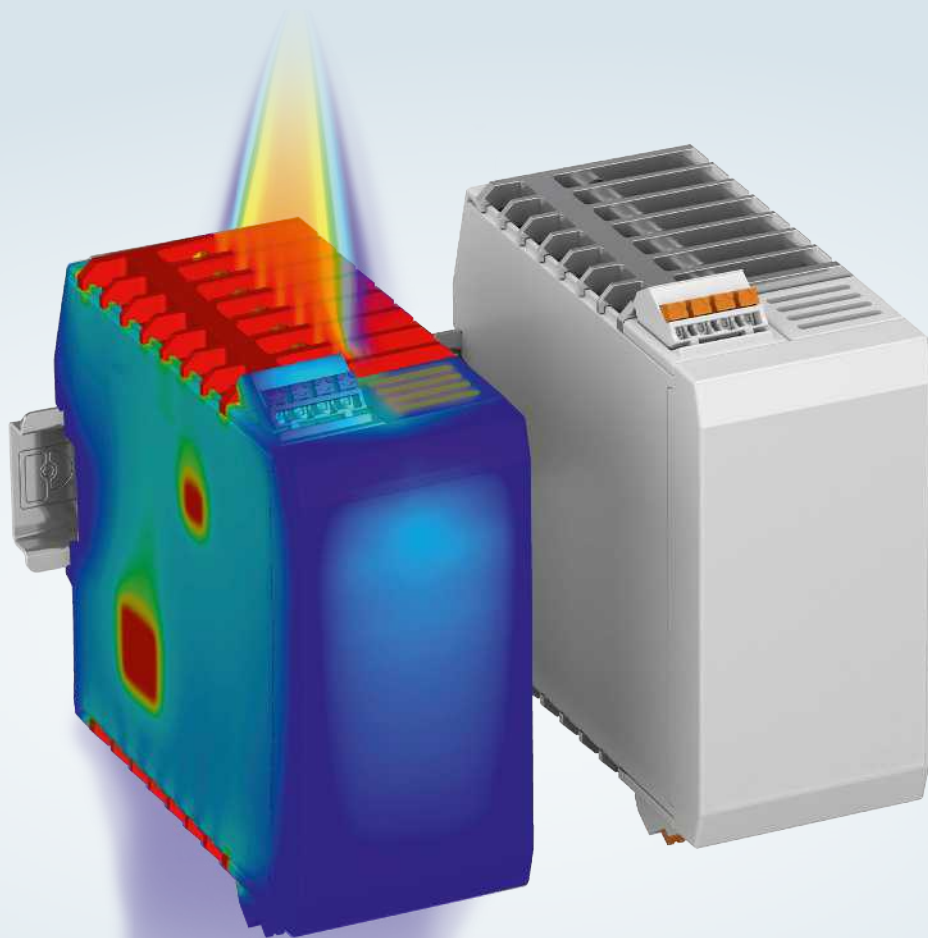
ICS modular housings with heatsinks and thermal simulations

Miniaturization leads to an increasingly high packing density in the electronics, which requires efficient cooling.

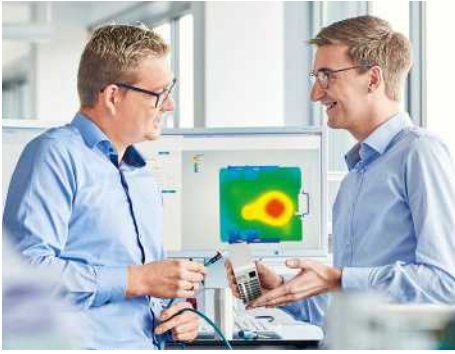
We have created an intuitive, easy-to-use web-based platform for assessing the thermal behavior of electronic devices, even in the very early stages of development. On request, this digital service can be extended to include individual consultations. You will receive a detailed, application-specific simulation and a recommendation for the ideal housing selection, heatsink design, and arrangement.



new

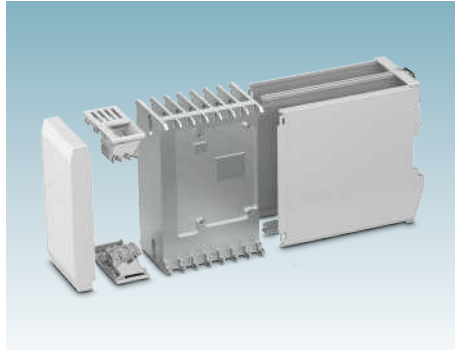


Your advantages



Rapid development

The comprehensive range of services for electronics housings simplifies and accelerates the development process.



Individual components

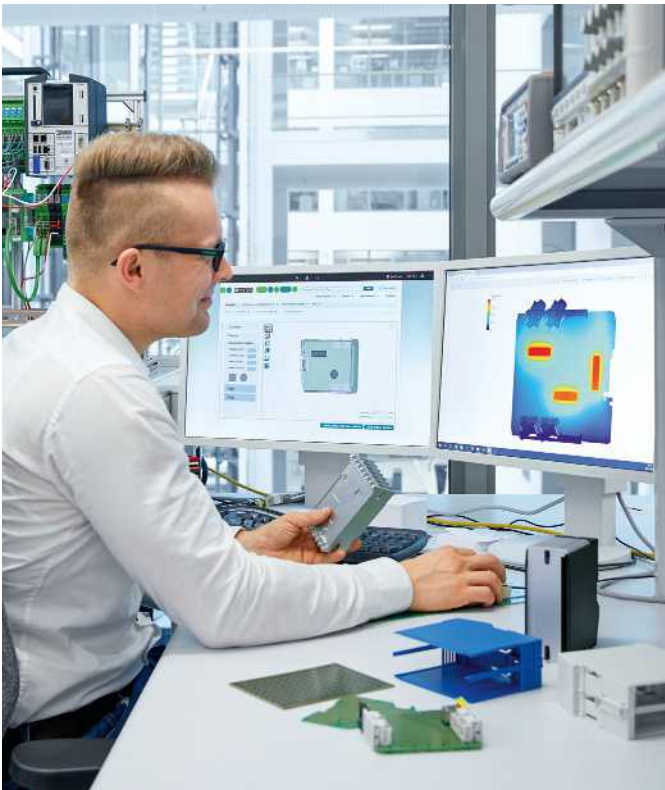
Heatsinks tailored to the customer's own requirements ensure reliable heat dissipation.



Optimized devices

Heatsinks enable the finished devices to be used in thermally demanding applications.

Simulate and analyze your application



Use our intuitive online simulation tool to analyze the heat generation of your application in the early phase of development.

1. First, in the configurator for ICS housings, configure your housing to suit your application.
2. Next, position hot spots on your PCB and define the thermal boundary conditions of your application.
3. You will receive your application-specific results directly by e-mail.

Go directly to the online configurator

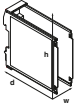
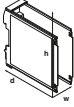
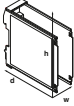
Simply enter the web code into the search field on our website.

i Web code: #0512

Contact us at:

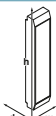
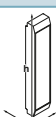
E-mail: housing-thermal-management@phoenixcontact.com

ICS series configuration overview

1 Lower housing part							
Description	Housing width of 20 mm						
							
Width/w [mm]	20	20					
Height/h [mm]	100	100					
Depth/d [mm]	98	98					
Overall depth ¹⁾	110	110					
Number of levels	4	4					
Design of 1st level	With vents	Open					
Number of connection levels (both sides)	3	4					
Type	ICS20-B100x98-V-7035	ICS20-B100x98-O-7035					
Item No.	2203878	1355944					
Description	Housing width of 25 mm						
							
Width/w [mm]	25	25	25	25	25	25	25
Height/h [mm]	77	100	100	100	100	122	122
Depth/d [mm]	75	98	98	120	120	98	98
Overall depth ¹⁾	87	110	110	132	132	110	110
Number of levels	3	4	4	5	5	4	4
Design of 1st level	Open	With vents	Open	With vents	Open	With vents	Open
Number of connection levels (both sides)	3	3	4	4	5	3	4
Type	ICS25-B77x75-O-7035	ICS25-B100x98-V-7035	ICS25-B100x98-O-7035	ICS25-B100x120-V-7035	ICS25-B100x120-O-7035	ICS25-B122x98-V-7035	ICS25-B122x98-O-7035
Item No.	2203876	2203881	1105221	2203884	1355945	2203885	1355946
Description	Housing width of 50 mm						
							
Width	50	50	50	50			
Height	100	100	122	122			
Depth	98	98	98	98			
Overall depth ¹⁾	110	110	110	110			
Number of levels	4	4	4	4			
Design of 1st level	With vents	Open	With vents	Open			
Number of connection levels (both sides)	6	8	6	8			
Type	ICS50-B100x98-V-V-7035	ICS50-B100x98-O-O-7035	ICS50-B122x98-V-V-7035	ICS50-B122x98-O-O-7035			
Item No.	1076998	1118644	1077064	1118647			

¹⁾ Overall depth (lower part with upper part)

2 Upper housing part¹⁾

Description	Closed					
						
Width/w [mm]	20	25	25	25	50	50
Height/h [mm]	100	77	100	122	100	122
Depth/d [mm]	14.35	14.35	14.35	14.35	14.35	14.35
Overall depth (lower part with upper part)	110	87	110	110	110	110
Type	ICS20-C100x12-7035	ICS25-C77x12-7035	ICS25-C100x12-7035	ICS25-C122x12-7035	ICS50-C100x12-7035	ICS50-C122x12-7035
Item No.	2203879	1019703	2203882	2203886	1076995	1076992
Description	With transparent hinged cover					
						
Width/w [mm]	20	25	25	25	50	50
Height/h [mm]	100	77	100	122	100	122
Depth/d [mm]	14.35	14.35	14.35	14.35	14.35	14.35
Overall depth (lower part with upper part)	110	87	110	110	110	110
Type	ICS20-TL100x12-7035	ICS25-TL77x12-7035	ICS25-TL100x12-7035	ICS25-TL122x12-7035	ICS50-TL100x12-7035	ICS50-TL122x12-7035
Item No.	2203880	1019570	2203883	2203887	1076994	1076991

¹⁾ For individual covers, see pages 56–57

Design your own individual ICS housing covers

1. Configure the ICS housing:

Configure the ICS housing system in different sizes and with variable connection technology.

2. Design the housing cover:

Would you like a custom cover? Just go automatically to the ICS cover designer and put together your own design intuitively. You can then order a single additively-manufactured prototype from PROTIQ, our cooperation partner, and have it delivered to your door.

3. Authorize series production:

Once you have decided on a design, an experienced team of specialists will be on hand to assist you with all subsequent steps.

Contact

Service Center
Phone: +49 5235 3-43086
E-mail:
housing-modification@phoenixcontact.com

ICS cover designer

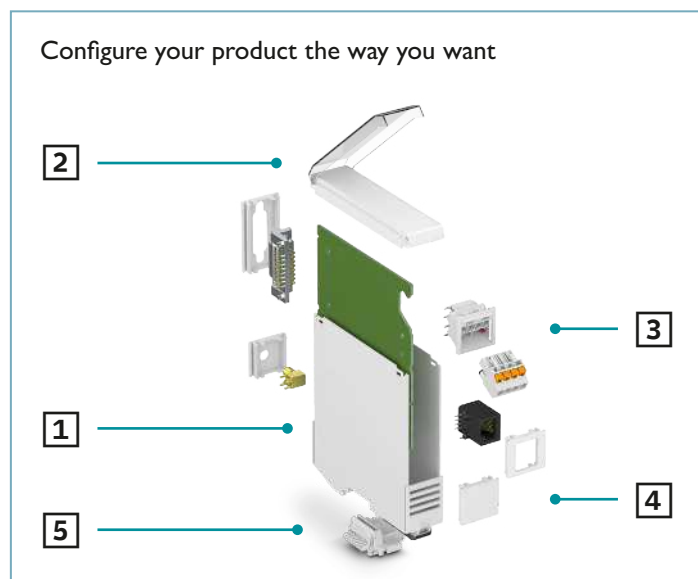
If you would like to create an ICS housing cover directly, you can use the ICS Cover Designer by PROTIQ at <https://www.protiq.com/en/ics-cover-configurator>.



ICS series configuration overview

Housing	3 Connection technology – headers							
	Headers							
	5.0 mm pitch							
	3-pos., left		3-pos., right		4-pos., left		4-pos., right	
Housing width	Type/Item No.		Type/Item No.		Type/Item No.		Type/Item No.	
20 mm	ICC20-H/ 3L5,0-7035	2203900	ICC20-H/ 3R5,0-7035	2203901				
25 mm/50 mm					ICC25-H/ 4L5,0-7035	2203902	ICC25-H/ 4R5,0-7035	2203903

Housing	3 Connection technology – connectors									
	Push-in									
	5.0 mm pitch					3.5 mm pitch				
	3-pos.		4-pos.		3-pos., can be coded	4-pos., can be coded		4-pos., can be coded	5-pos., can be coded	
Housing width	Type/Item No.		Type/Item No.		Type/Item No.	Type/Item No.		Type/Item No.	Type/Item No.	
20 mm	PSPT 2,5/ 3-ST KMGY	2202345			ICC20- PPC2,5/ 3-5,0-AA- 7035	1084030		ICC20- PPC1,5/ 4-3,5-AA- 7035	1102107	
25 mm/50 mm			PSPT 2,5/ 4-ST KMGY	2202344		ICC25- PPC2,5/ 4-5,0-AA- 7035	1084034		ICC25- PPC1,5/ 5-3,5-AA- 7035	1102108



Go directly to the online configurator

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

i Web code: #0512

3.5 mm pitch							
							
4-pos., left		4-pos., right		5-pos., left		5-pos., right	
Type / Item No.		Type / Item No.		Type / Item No.		Type / Item No.	
ICC20-H/4L3,5-7035	1084014	ICC20-H/4R3,5-7035	1084012				
				ICC25-H/5L3,5-7035	1084018	ICC25-H/5R3,5-7035	1084017

Screw connection											
5.0 mm pitch								3.5 mm pitch			
											
3-pos.		4-pos.		3-pos., can be coded		4-pos., can be coded		4-pos., can be coded		5-pos., can be coded	
Type / Item No.		Type / Item No.		Type / Item No.		Type / Item No.		Type / Item No.		Type / Item No.	
MSTBT 2,5 HC/3-STP	2200333			ICC20-PSC2,5/3-5,0-AA-7035	1084026			ICC20-PSC1,5/4-3,5-AA-7035	1084020		
		MSTBT 2,5 HC/4-STP	2200332			ICC25-PSC2,5/4-5,0-AA-7035	1084027			ICC25-PSC1,5/5-3,5-AA-7035	1084024

Housing	5 DIN rail connector, 8-pos.											
	2.54 mm pitch											
	TBUS8, 8 parallel contacts			TBUS8, 7 parallel contacts, 1 series contact			TBUS8, 6 parallel contacts, 2 series contacts			TBUS8, 4 parallel contacts, 4 series contacts		
												
Housing width	Type/Item No.			Type/Item No.			Type/Item No.			Type/Item No.		
20 mm	TBUS8-20,0-PPPPPPPP-7035	2202889		TBUS8-20,0-PPPPPPPS-7035	2202894		TBUS8-20,0-PPPPPPSS-7035	2202892				
25 mm / 50 mm	TBUS8-25,0-PPPPPPPP-7035	2202891		TBUS8-25,0-PPPPPPPS-7035	2202890		TBUS8-25,0-PPPPPPSS-7035	2202895		TBUS8-25,0-PPPPSSSS-7035	1156781	

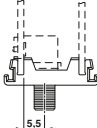
ICS series configuration overview

Housing	4 Filler without vents ¹⁾										
											
Housing width	Color similar to	Depth 22.5 mm		Depth 45 mm		Depth 67 mm		Depth 90 mm		Depth 112 mm	
		Type/Item No.		Type/Item No.		Type/Item No.		Type/Item No.		Type/Item No.	
20 mm	■ RAL 7035	ICS20-F22S-7035	2203888	ICS20-F45S-7035	2203889	ICS20-F67S-7035	1287461	ICS20-F90S-7035	1287452		
25 mm/50 mm	■ RAL 7035	ICS25-F22S-7035	2203890	ICS25-F45S-7035	2203891	ICS25-F67S-7035	1287434	ICS25-F90S-7035	1287425	ICS25-F112S-7035	1287413
20 mm	■ RAL 9005	ICS20-F22S-9005	1072523	ICS20-F45S-9005	1072522	ICS20-F67S-9005	1287455	ICS20-F90S-9005	1287450		
25 mm/50 mm	■ RAL 9005	ICS25-F22S-9005	1072520	ICS25-F45S-9005	1072519	ICS25-F67S-9005	1287431	ICS25-F90S-9005	1287415	ICS25-F112S-9005	1287411
20 mm	■ RAL 5015	ICS20-F22S-5015	1072468	ICS20-F45S-5015	1071795	ICS20-F67S-5015	1287458	ICS20-F90S-5015	1287451		
25 mm/50 mm	■ RAL 5015	ICS25-F22S-5015	1071794	ICS25-F45S-5015	1071767	ICS25-F67S-5015	1287433	ICS25-F90S-5015	1287416	ICS25-F112S-5015	1287412
20 mm	■ RAL 1018	ICS20-F22S-1018	1168112	ICS20-F45S-1018	1168113	ICS20-F67S-1018	1287453	ICS20-F90S-1018	1287449		
25 mm/50 mm	■ RAL 1018	ICS25-F22S-1018	1099531	ICS25-F45S-1018	1099555	ICS25-F67S-1018	1287430	ICS25-F90S-1018	1287414	ICS25-F112S-1018	1287410

Housing	4 Filler with vents ¹⁾										
											
Housing width	Color similar to	Depth 22.5 mm		Depth 45 mm		Depth 67 mm		Depth 90 mm		Depth 112 mm	
		Type/Item No.		Type/Item No.		Type/Item No.		Type/Item No.		Type/Item No.	
20 mm	■ RAL 7035	ICS20-F22V-7035	1079494	ICS20-F45V-7035	1079493	ICS20-F67V-7035	1287448	ICS20-F90V-7035	1287441		
25 mm/50 mm	■ RAL 7035	ICS25-F22V-7035	1079495	ICS25-F45V-7035	1079492	ICS25-F67V-7035	1287409	ICS25-F90V-7035	1287405	ICS25-F112V-7035	1287401
20 mm	■ RAL 9005	ICS20-F22V-9005	1104315	ICS20-F45V-9005	1104314	ICS20-F67V-9005	1287446	ICS20-F90V-9005	1287437		
25 mm/50 mm	■ RAL 9005	ICS25-F22V-9005	1104313	ICS25-F45V-9005	1104312	ICS25-F67V-9005	1287407	ICS25-F90V-9005	1287403	ICS25-F112V-9005	1287399
20 mm	■ RAL 5015	ICS20-F22V-5015	1104320	ICS20-F45V-5015	1104319	ICS20-F67V-5015	1287407	ICS20-F90V-5015	1287438		
25 mm/50 mm	■ RAL 5015	ICS25-F22V-5015	1104318	ICS25-F45V-5015	1104317	ICS25-F67V-5015	1287408	ICS25-F90V-5015	1287404	ICS25-F112V-5015	1287400
20 mm	■ RAL 1018	ICS20-F22V-1018	1287388	ICS20-F45V-1018	1287386	ICS20-F67V-1018	1287443	ICS20-F90V-1018	1287435		
25 mm/50 mm	■ RAL 1018	ICS25-F22V-1018	1287382	ICS25-F45V-1018	1287380	ICS25-F67V-1018	1287406	ICS25-F90V-1018	1287402	ICS25-F112V-1018	1287396

¹⁾ Filler with individual function cutouts and openings available on request. Other colors are available on request.

Housing	4 Filler for data connector ¹⁾									
										
Housing width	Color similar to	Depth 22.5 mm		Depth 22.5 mm		Depth 45 mm		Depth 45 mm		
		Type/Item No.		Type/Item No.		Type/Item No.		Type/Item No.		
20 mm	 RAL 7035	ICS20-F22U-7035	1053051							
25 mm / 50 mm	 RAL 7035	ICS25-F22U-7035	1053046	ICS25-F22J-7035	2203895	ICS25-F45D9-7035	1053054	ICS25-F45D15-7035	2203896	
20 mm	 RAL 9005	ICS20-F22U-9005	1072503							
25 mm / 50 mm	 RAL 9005	ICS25-F22U-9005	1072494	ICS25-F22J-9005	1072501	ICS25-F45D9-9005	1072500	ICS25-F45D15-9005	1072495	
20 mm	 RAL 5015	ICS20-F22U-5015	1071659							
25 mm / 50 mm	 RAL 5015	ICS25-F22U-5015	1071629	ICS25-F22J-5015	1071641	ICS25-F45D9-5015	1071639	ICS25-F45D15-5015	1071634	
20 mm	 RAL 1018	ICS20-F22U-1018	1287385							
25 mm / 50 mm	 RAL 1018	ICS25-F22U-1018	1287377	ICS25-F22J-1018	1287378	ICS25-F45D9-1018	1287374	ICS25-F45D15-1018	1287375	

Housing	4 Filler for antennas ¹⁾									
										
Housing width	Depth	Distance ²⁾	RAL 7035		RAL 9005		RAL 5015		RAL 1018	
			Type/Item No.		Type/Item No.		Type/Item No.		Type/Item No.	
20 mm	22.5 mm	5.5 mm	ICS20-F22A-7035	2203892	ICS20-F22A-9005	1073007	ICS20-F22A-5015	1071765	ICS20-F22A-1018	1287383
25 mm / 50 mm	22.5 mm	5.5 mm	ICS25-F22A-7035	1053046	ICS25-F22A-9005	1072502	ICS25-F22A-5015	1071642	ICS25-F22A-1018	1287376
20 mm	22.5 mm	6.4 mm	ICS20-F22A6-7035	187371	ICS20-F22A6-9005	1287373	ICS20-F22A6-5015	1287372	ICS20-F22A6-1018	1287370
25 mm / 50 mm	22.5 mm	6.4 mm	ICS25-F22A6-7035	1287369	ICS25-F22A6-9005	1287367	ICS25-F22A6-5015	1287368	ICS25-F22A6-1018	1287366

¹⁾ Filler with individual function cutouts and openings available on request. Other colors are available on request.

²⁾ Distance from the central filler opening to the PCB (see sketch)

ICS series configuration overview

Heatsinks								
	Heatsink dimensions ¹⁾			Type	Item No.	Distance from the base to the PCB	Base strength ⁴⁾	Recommended housing use
	Height	Length	Width					
	25 mm	25 mm ²⁾	22.4 mm	ICS25-F22H-A1	1328704	0 mm (0–11 mm) ³⁾	4 mm	ICS housing of widths 25 and 50 mm
	25 mm	25 mm ²⁾	44.9 mm	ICE25-F45H-A1	1328703	0 mm (0–11 mm) ³⁾	4 mm	ICS housing of widths 25 and 50 mm
	25 mm	105 mm	22.4 mm	ICE25-R100X22-A1	1328715	4 mm (0–11 mm) ³⁾	4 mm	ICS housing of widths 25 and 50 mm
	25 mm	105 mm	44.9 mm	ICE25-R100X45-A1	1328714	4 mm (0–11 mm) ³⁾	4 mm	ICS housing of widths 25 and 50 mm
	50.1 mm	105 mm	22.4 mm	ICE50-R100X22-A1	1328713	4 mm (0–11 mm) ³⁾	6 mm	ICS housing of width 50 mm
	50.1 mm	105 mm	44.9 mm	ICE50-R100X45-A1	1328712	4 mm (0–11 mm) ³⁾	6 mm	ICS housing of width 50 mm
	50.1 mm	105 mm	67.4 mm	ICE50-R100X67-A1	1118306	4 mm	6 mm	ICS housing of width 50 mm
	25 mm	1,275 mm	22.4 mm	ICE25-R122X22-A1	1328711	4 mm (0–11 mm) ³⁾	4 mm	ICS housing of widths 25 and 50 mm
	25 mm	1,275 mm	44.9 mm	ICE25-R122X45-A1	1328708	4 mm (0–11 mm) ³⁾	4 mm	ICS housing of widths 25 and 50 mm
	50.1 mm	1,275 mm	22.4 mm	ICE50-R122X22-A1	1328707	4 mm (0–11 mm) ³⁾	6 mm	ICS housing of width 50 mm
	50.1 mm	1,275 mm	44.9 mm	ICE50-R122X45-A1	1328706	4 mm (0–11 mm) ³⁾	6 mm	ICS housing of width 50 mm
	50.1 mm	1,275 mm	67.4 mm	ICE50-R122X67-A1	1118305	4 mm	6 mm	ICS housing of width 50 mm

¹⁾ Relationship between heat sink dimension and housing dimension: height-width, length-height, width-depth

²⁾ Length can be varied individually on request.

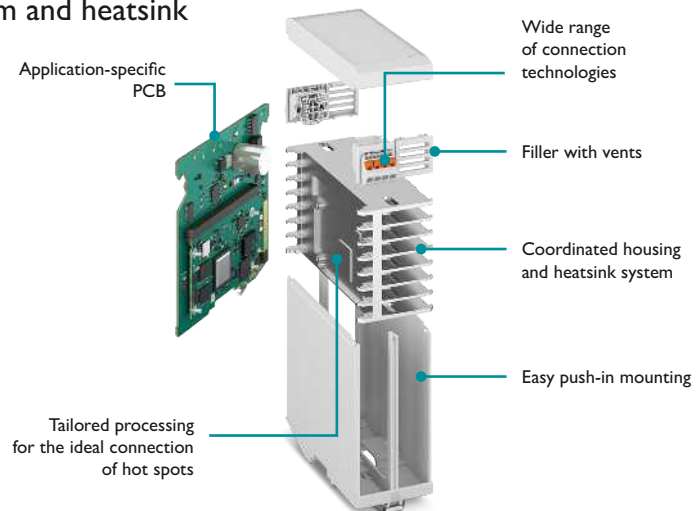
³⁾ The position of the base can be varied customer-specifically (see page 79).

⁴⁾ The base can be custom-milled for different component heights. A minimum base strength of 2 mm is recommended.

Your complete solution of housing system and heatsink

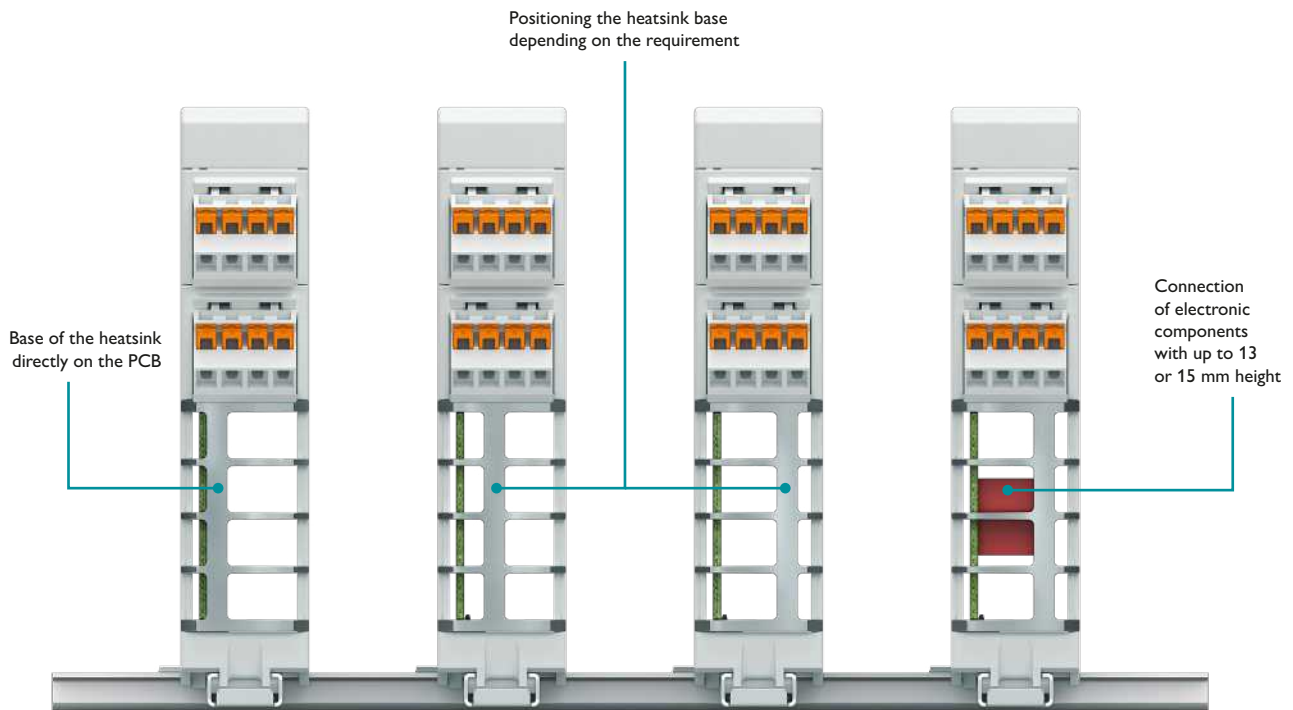
Use the ICS housing system heatsinks for the targeted optimization of heat transport. Using a heatsink allows you to benefit from the longer service life of electronic components.

Get professional advice regarding the ideal housing selection and individual heatsink design at an early stage in the development process.



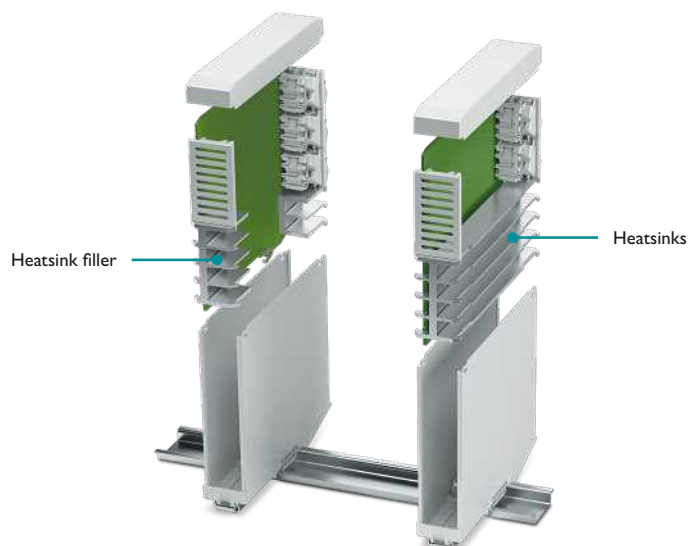
Positioning depending on the requirement

The ICS housing family heatsinks are designed so that they can connect electronic components in an installed height of up to 13 or 15 mm. The distance between the PCB and the base of the heatsink can vary between 0 and 11 mm depending on the space requirements.



Optimal design of the heatsink

The heatsink is custom-designed and manufactured for the respective layout of the electronics. This allows the device to achieve optimal heat dissipation. The heatsink design is based on the respective application according to the individual requirements. Alongside heatsinks, we also offer space-saving heatsink fillers for a timely heat dissipation in our portfolio.



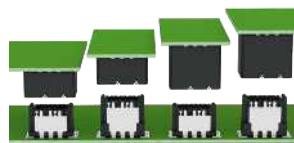
Visualization and operation					
Description	Light guides				
Pitch	2 x 1	2 x 2	2 x 4	2 x 5	2 x 10
					
Item No.	1036658	1043044	1036724	1071310	1071314
Pitch	4 x 2	4 x 4	4 x 5	4 x 9	4 x 10
					
Item No.	1071316	1036727	1071318	1071321	1071329

Displays and membrane keypads					
Description	Cover with display	Membrane keypad	Cover with display	Membrane keypad	Cover with touch display
					
Version	ICS25 cover with 0.96" display	Membrane keypad for ICS25-C100	ICS25 cover with 0.96" display	Membrane keypad for ICS25-C122	ICS50 cover with 2.4" VPE 10 touch display
Housing width	25 mm		25 mm		50 mm
Housing height	100 mm		122 mm		100 mm
Type	ICS25-C100x12-DKP-7035	KP ICS25x100 K4 C3 P5	ICS25-C122x12-DKP-7035	KP ICS25x122 K4 C3 P5	ICS50-C100x12-D2,4-TRG-7035
Item No.	1215686	1215683	1215685	1215684	1226370

Accessories					
FE contact	Base latch for housing height 77 mm	Base latch for housing height 100 mm	Base latch for 122 mm housing height	Coding elements	ICS assembly tool
					
Item No.	Item No.	Item No.	Item No.	Item No.	Item No.
2203904	1143118	1143120	1143121	1084009	1118354

Board-to-board connectors

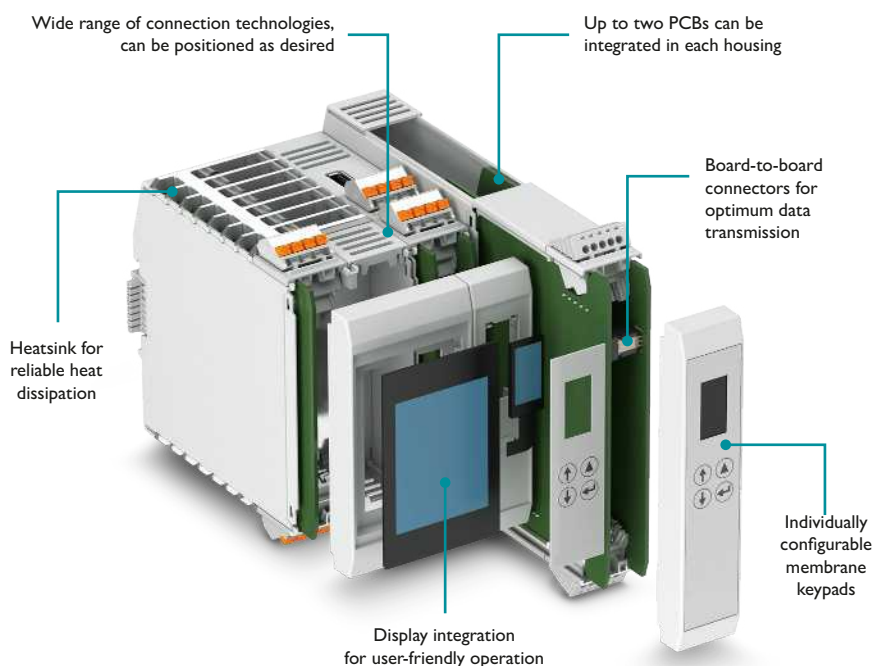
Scale^{ix}



Description	PCB spacing 9.5 mm (ICS 20)				
Positions	12	20	32	52	80
Item No. for female connector strip, shielded	1043682	1053614	1043683	1043684	1043685
Item No. for male connector strip, shielded	1043786	1053586	1043787	1043789	1043790
Item No. for female connector strip, unshielded	1061580	1061583	1061584	1061585	1061586
Item No. for male connector strip, unshielded	1061725	1061727	1061728	1061729	1061730
Description	PCB spacing 14.5 mm (ICS 25)				
Positions	12	20	32	52	80
Item No. for female connector strip, shielded	1043710	1053612	1043711	1043713	1043714
Item No. for male connector strip, shielded	1154119	1154120	1154121	1154122	1154123
Item No. for female connector strip, unshielded	1061643	1061660	1061662	1061666	1061667
Item No. for male connector strip, unshielded	1154012	1154013	1154014	1154015	1154016

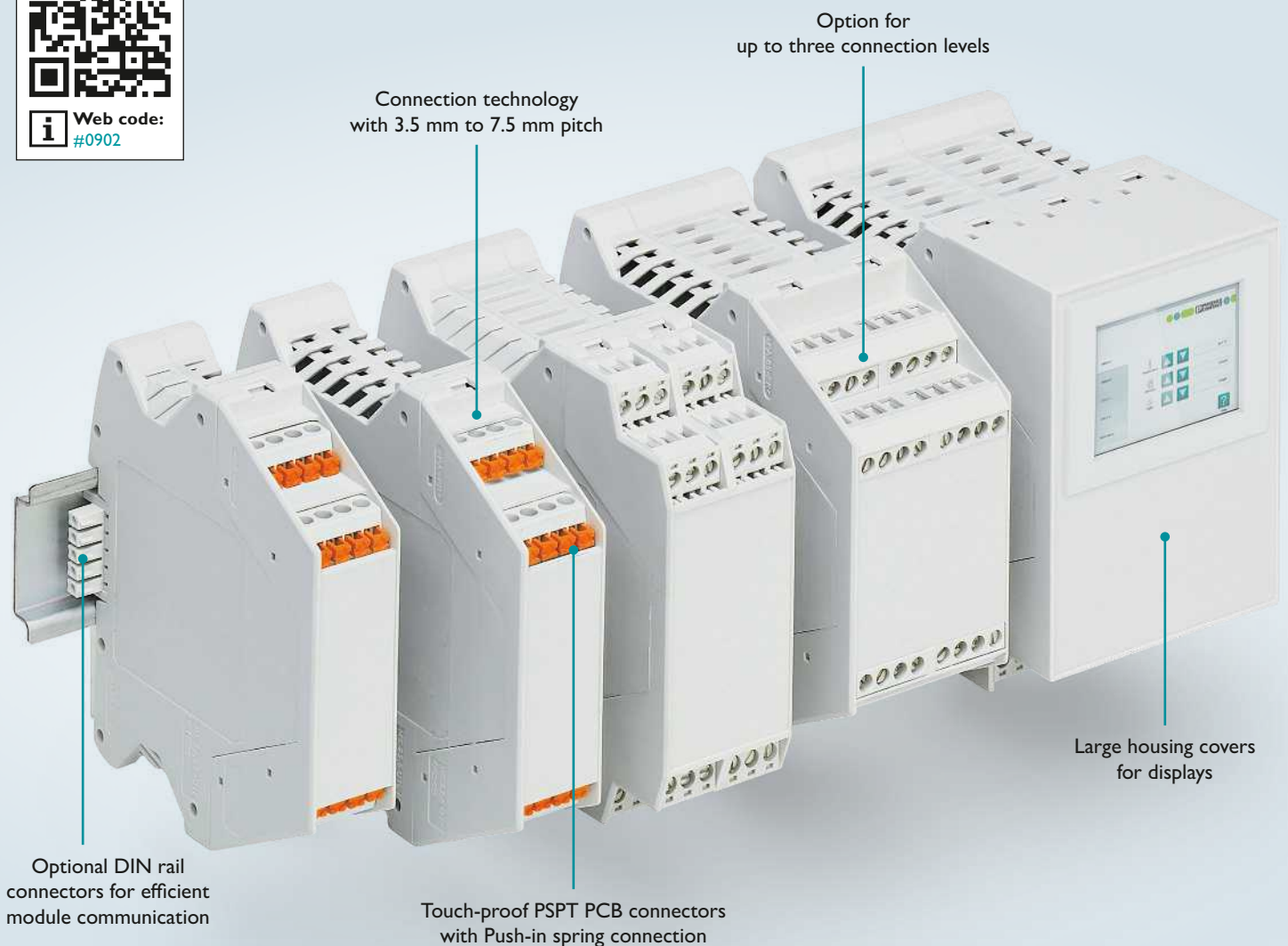
ICS as the ideal housing system for your device application

Benefit from the comprehensive selection of modules and high level of flexibility with regard to the connection technology. Take advantage of the unique possibilities afforded by the ICS housing series and create your own individual design. The ICS series housings also provide you with a broad portfolio of corresponding accessories, such as displays, membrane keypads, and board-to-board connectors.

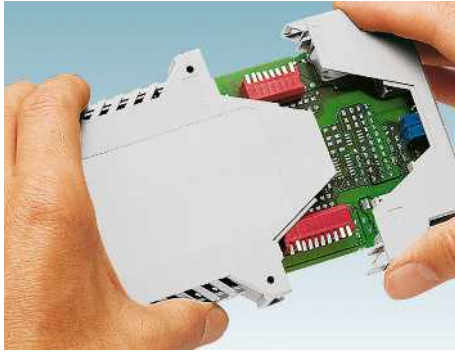


Modular ME housings in an easy-to-install cup shape

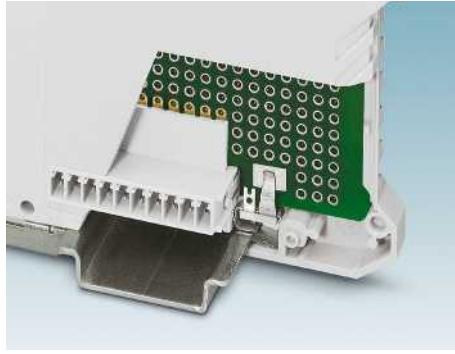
Modular electronics housings from the ME series transform assembled PCBs into easy-to-install and easy-to-service electronics modules. Variable connection technology with up to 120 positions, bus connectors, and modularity ensure the device configuration matches the application. Comprehensive accessories and diverse adaptation options, including the width, extend the range of individual housing solutions.



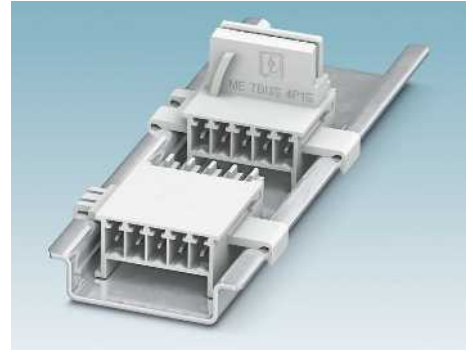
Your advantages



Cup principle for short installation times



Functional ground contact and bus connector integrated in 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

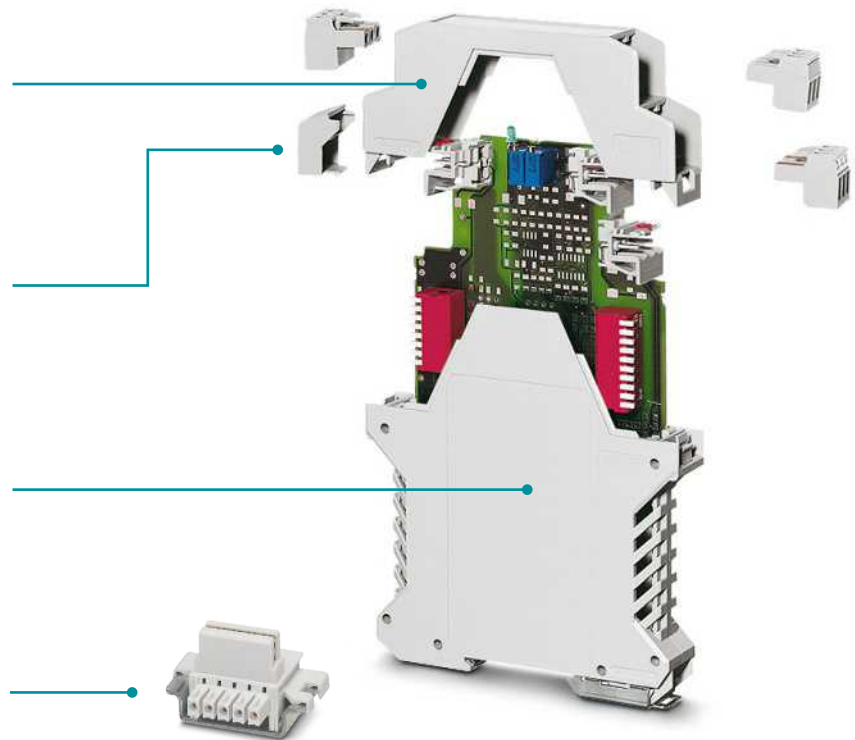
Configure your product the way you want

- 3** Select the corresponding upper housing part

- 4** Select connection technology or filler plug (pages 86 to 89)

- 1** Select the lower housing part

- 2** Optionally extend DIN rail bus



Go directly to the online configurator

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

i Web code: [#0512](#)

Housing color options (based on RAL color system):

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

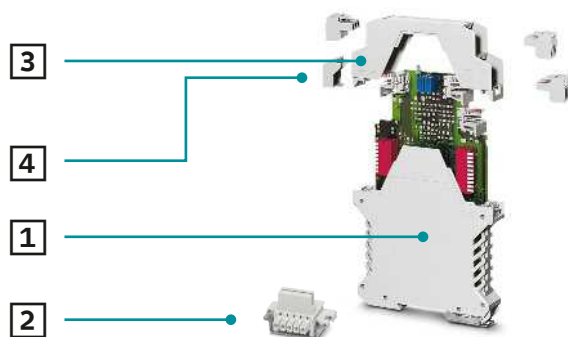
Other colors are available on request.

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

ME series configuration overview

Housing		1 Lower housing part					
		Without bus connector	With integrated bus connector				For DIN rail connector
			5 parallel positions	5 parallel positions, 2 series positions	10 parallel positions	10 parallel positions, 2 series positions	5 positions
							
	Width ⁶⁾	ME ... UT	ME ... UT BUS/5	ME ... UT/ FE BUS/5+2 ³⁾	ME ... UT/ FE BUS/10 ³⁾	ME ... UT/ FE BUS/10+2 ³⁾	ME ... UT TBUS
 Tall design (standard) Overall depth 114.5 mm ¹⁾	12.5 mm	2869430					
	17.5 mm	2869427	2201851	2201855	2854034	2201859	2914783
	22.5 mm	2907732		2201856	2854047	2890108	2869524
	35 mm	2915148	2201853	2201857	2854050	2201860	2914819
	45 mm	2709655	2201854	2201858	2854063	2695536	2869511
	67 mm	2201238		2200537	2200539	2200541	2200544
	90 mm	2200279		2200538	2200540	2200543	2200545
 Flat design Overall depth 106 mm ¹⁾	22.5 mm	2709781					2914835
 Ultra-flat design Overall depth 92 mm ¹⁾	22.5 mm	2201861					

Configure your product the way you want



Go directly to the online configurator

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

i Web code: #0512

2 DIN rail connectors⁵⁾

3.81 mm pitch

5 parallel positions



ME ... TBUS ...

4 parallel positions, 1 series position



ME ... TBUS ... 4P1S

Adapter piece, 5 parallel positions



ME ... TBUS ADAPTER

2713645

2201731

2201757

2713722

2201732

2201756

2713645²⁾

2201731²⁾

2201757²⁾

2713722²⁾

2201732²⁾

2201756²⁾

2278953

2201732

2201756

2713722

2201732

2201756

¹⁾ Dimensions of housing incl. single- or double-level upper part and base latch

²⁾ DIN rail connectors, adapters, and base latch can be freely combined, taking the required quantity relative to the housing width into account.

³⁾ FE = functional ground contact 2908294 for ME ... UT BUS ... and 2908294 for ME UT ... Note: The lower housing parts shown here are also available without ventilation slots and in other colors.

⁴⁾ Upper housing part suitable for integration of display frames 2203537, 2203538, and 2203539

3 Upper housing part

PCB terminal blocks

Connectors with header

Screw connection



ME ... OTU-MKDSO

2278869

2278940

2278953

2 x 2278940

2 x 2278953

3 x 2278953

4 x 2278953

22788953

2278953

Spring connection



ME ... OT-FKDSO

2200321

2200322

2200323

2 x 2200322

2200327

3 x 2200323

2 x 2200327

2200323

2200323

Single-level



ME ... OT-1MSTBO

2914877

2709299

2200522⁴⁾

2200523⁴⁾

2914877

2914877

Double-level



ME ... OT-MSTBO

2854775

2853747

2907761

2914864

2854429

3 x 2907761

2 x 2854429

2907761

2907761

Double-level



ME ... OTP-MSTBO-PS

2279253⁸⁾

2279282⁷⁾

2279282⁸⁾

2279282⁸⁾

Triple-level



ME ... OT-3MSTBO

2914880

2 x 2914880

3 x 2914880

4 x 2914880

2914880

2914880

⁵⁾ Connector part for bus connector 1719697

Inverted connector part for bus connector 1719707

Feed-in clip for TBUS connector 2713780

⁶⁾ Without bus contacts

⁷⁾ When using the ME 17,5 OTP-MSTBO-PS machine head, an additional plate is required: 2279266

⁸⁾ When using the ME 22,5 OTP-MSTBO-PS machine head, an additional plate is required: 2279279

ME series configuration overview: PCB connectors

3 Upper housing part					4 Connection technology											
					3.5 mm pitch											
					Headers		Connectors and connector locking mechanisms						Headers			
					Wave soldering		Screw	Plug-snap	Push-in	Plug-snap	Push-in	Wave soldering				
					Left	Right						Left	Right			
																
MCO 1,5 / ... G1 ... -3,5		MC	ME PS ... MC	FMC	ME PS ... FMC	FK-MCP	MSTBO 2,5 / ... G1 ...									
 ME ... OT-1MSTBO	22.5 mm	5	4	3	2278380	2278351	1769087	1773581	1773581	1773594	1773604	2907774	2907787			
	45 mm	10	8	6												
	67.5 mm	15	12	9												
	90 mm	20	16	12												
 ME ... OT-MSTBO	12.5 mm	12	8		2278319	2278322	1769061					2854788	2854791			
	17.5 mm	16	12	8	2278364	2278377	1769074		1773578		1773594	2853750	2853763			
	22.5 mm	20	16	12	2278380	2278351	1769087		1773581		1773604	2907774	2907787			
	35 mm	32	24	16	2278364	2278377	1769074		1773578		1773594	2853750	2853763			
	45 mm	40	32	24	2278380	2278351	1769087		1773581		1773604	2907774	2907787			
 ME ... OT-3MSTBO	22.5 mm	30	24	18	2278380	2278351	1769087		1773581		1773604	2907774	2907787			
 ME ... OTP-MSTBO-PS	17.5	16	12		2278364	2278377	1769087	2279842	1773578	2279949	1773594	2853750	2853763			
	22.5	20	16		2278380	2278351	1769087	2279745	1773581	2279648	1773604	2907774	2907787			

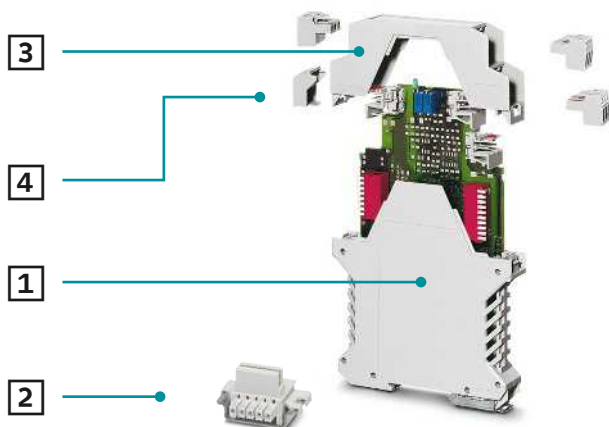
Headers, connectors, and connector locking mechanisms															Filler plugs
5 mm pitch											7.25 mm pitch				
Headers								Connectors and connector locking mechanisms			Headers		Screw		
Wave soldering		Reflow soldering (THR)				Wave soldering		Push-in	Screw	Plug-snap	Reflow soldering (THR)				
Left	Right	Left	Right	Left	Right	Left	Right				Left	Right			
															
MSTBO 2,5/ ... G1 ... AU		MSTBO 2,5/ ... -G1 ... THR		MSTBO 2,5/ ... G1 ... THR ... AU		MSTBO 2,5/ ... -G1P ...		PSPT 2,5/ ...	MSTBT ... STP	ME PS ... MSTBT	GMSTBO 2,5 HV/ ... -G ... THR		GMSTBT 2,5 HV	ME B- ...	
1077607	1077608	2697194	2697204	1077613	1077614	2200325	2200326	2202344	2200332		2199663	2199566	2199553	2907965	
1077603	1077604	2200251	2200252	1077609	1077610	2200330	2200331	2202346	2200334					2854801	
1077605	1077606	2915216	2915229	1077611	1077612	2200328	2200329	2202345	2200333		2199867	2199760	2199757	2853776	
1077607	1077608	2697194	2697204	1077613	1077614	2200325	2200326	2202344	2200332		2199663	2199566	2199553	2907965	
1077605	1077606	2915216	2915229	1077611	1077612	2200328	2200329	2202345	2200333		2199867	2199760	2199757	2853776	
1077607	1077608	2697194	2697204	1077613	1077614	2200325	2200326	2202344	2200332		2199663	2199566	2199553	2907965	
1077607	1077608	2679194	2697204	1077613	1077614	2200325	2200326	2202344	2200332					2 x 2279787	
1077605	107606	2915216	2915229	1077611	1077612	2200328	2200329	2202345	2200333		2199867	2199760	2199757	2853776	
1077607	1077607	2679194	2697204	1077613	1077614	2200325	2200326	2202344	2200332	2279062	2199663	2199566	2199553	2907965	

ME series configuration overview: PCB terminal blocks

3 Upper housing part			
	Width	Max. number of positions	
		Pitch	
		3.5 mm	5 mm
	 ME ... OTU-MKDSO	12.5 mm	12
 ME ... OT-FKDSO	17.5 mm	16	12
	22.5 mm	20	16
	45 mm	40	32
	12.5 mm		8
	17.5 mm		12
	22.5 mm		16
	45 mm		32

4 Connection technology			
PCB terminal blocks			
3.5 mm pitch		5 mm pitch	
Screw connection			
Left	Right	Left	Right
			
MKDSO 1,5/... -3,5		MKDSO 2,5/...	
2278445	2278458	2915261	2915258
2278432	2278429	2854102	2854092
2278393	2278416	2908485	2908472
2278393	2278416	2908485	2908472

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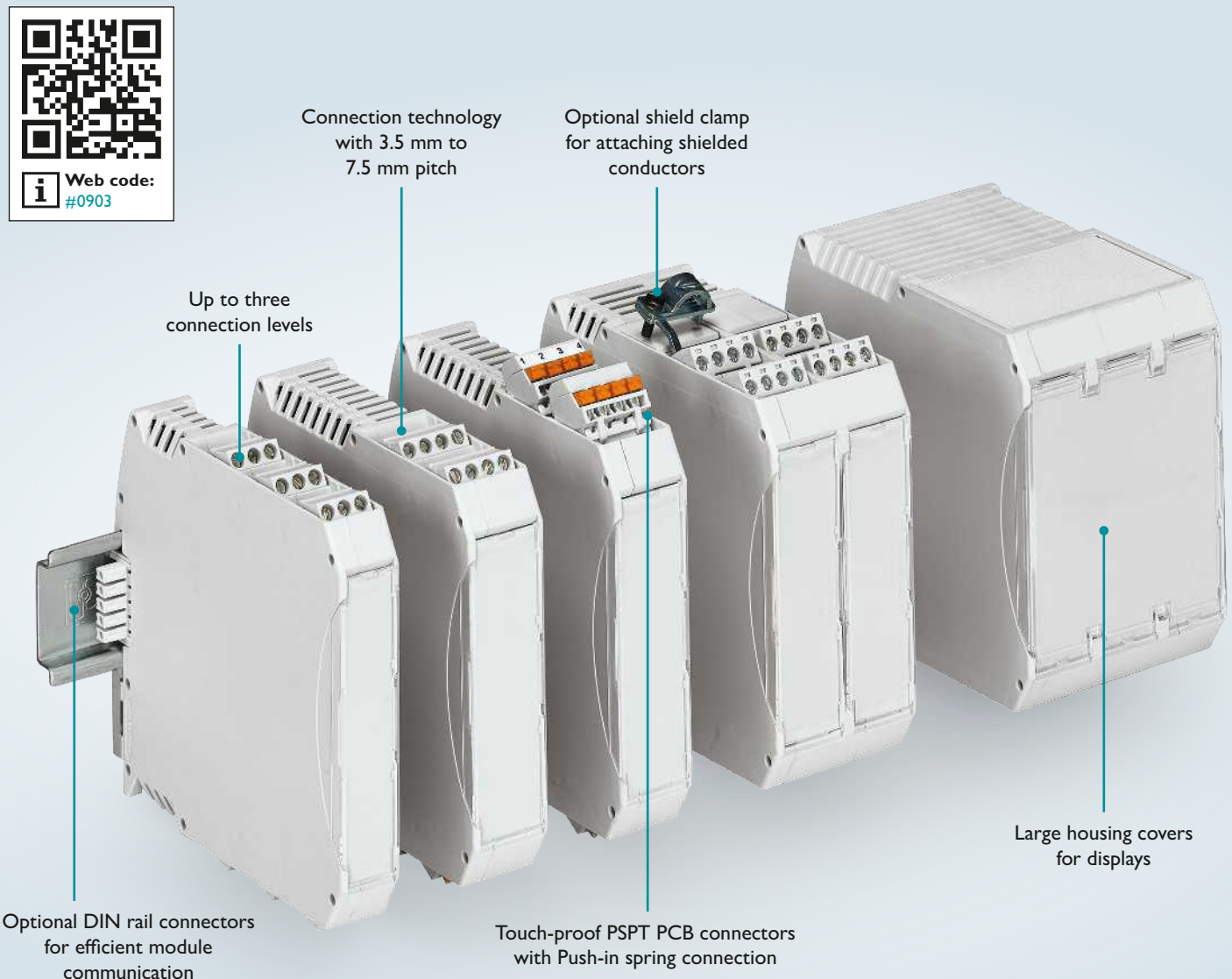
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i Web code: #0512

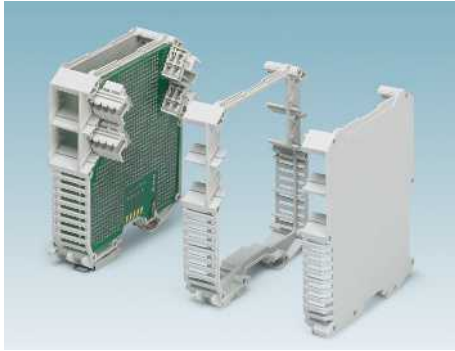
		Filler plugs	
5 mm pitch			
Push-in spring connection			
Left	Right		
			
FKDSO 2,5/...		ME B-...	
		2201862	
		2854115	
		2908498	
		2908498	
2200315	2200316	2200565	
2200318	2200317	2200566	
2200319	2200320	2200567	
2200319	2200320	2200567	

ME MAX modular housings in flexible modular design

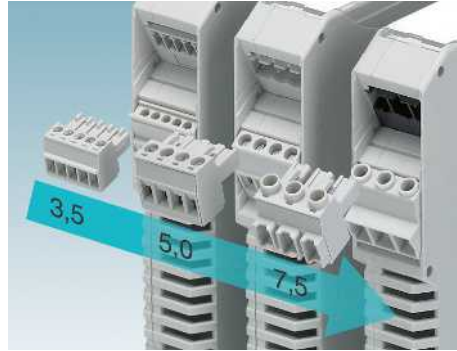
The modular, design-oriented ME MAX electronics housings are ideal for modern industrial electronics: The DIN rail housings can be mounted efficiently and their overall width flexibly extended. Furthermore, the housings feature variable connection technology with up to 120 positions. They can be connected together on the DIN rail intuitively. Comprehensive accessories and diverse adaptation options enable application-oriented device solutions.



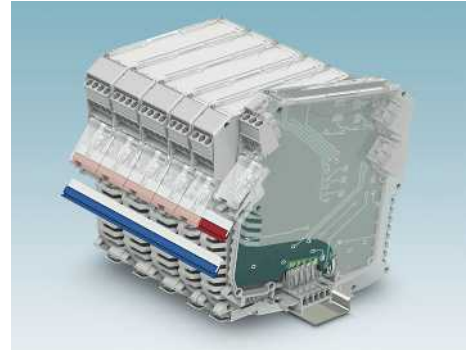
Your advantages



Modular housing design enables variable electronics solutions



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



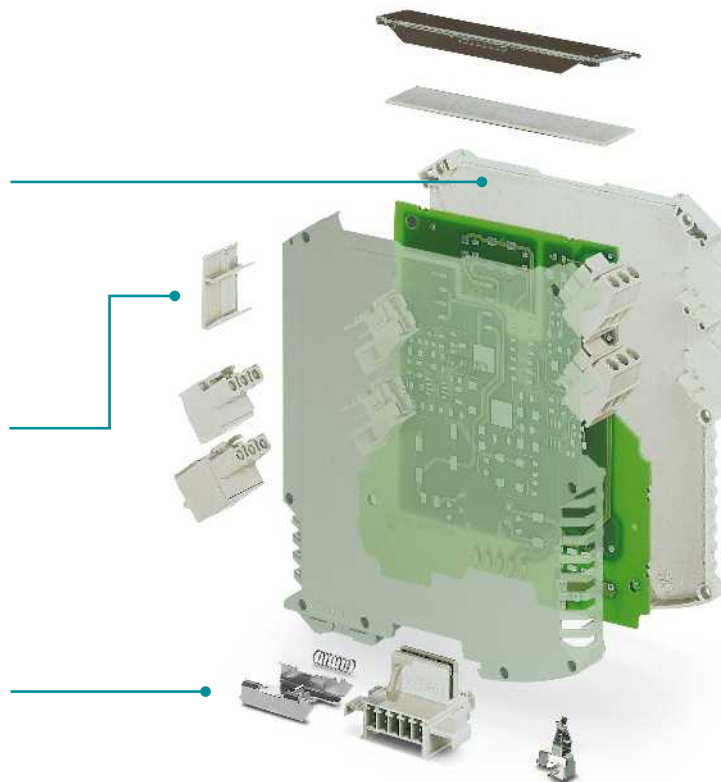
TBUS DIN rail cross-connectors and PCO power connectors for module-to-module communication

Configure your product the way you want

1 Select the housing

3 Select connection technology or filler plug (pages 94 to 97)

2 Add DIN rail bus and power connectors as an option



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Housing color options (based on RAL color system):

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

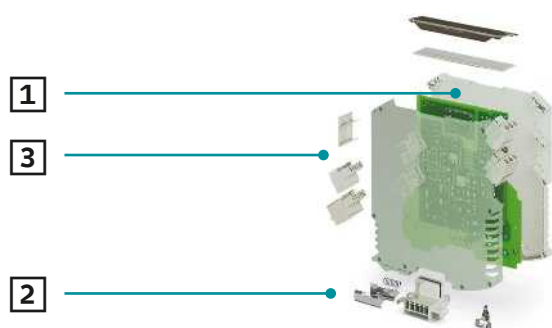
Other colors are available on request.

Test the ME MAX series and get in touch with your sales contact person (sample set: 52005224).

ME MAX series configuration overview

1 Housing													
Housing	Housing width	Item No.	Max. no. of pos.			Item No.	Max. no. of pos.			Item No.	Max. no. of pos.		
			Pitch				Pitch				Pitch		
			3.5 mm	5 mm	7.25 mm, 7.5 mm		3.5 mm	5 mm	7.25 mm, 7.5 mm		3.5 mm	5 mm	7.25 mm, 7.5 mm
													
		ME MAX ... 3-3				ME MAX ... 2-2				ME MAX ... U-U1			
 Tall design (standard) Overall depth 114.5 mm	6.2 mm ¹⁾	2869634 2869647	8										
	12.5 mm, with ²⁾ 12.5 mm, without ²⁾	2279020 2279017	18	12									
	17.5 mm, with ²⁾ 17.5 mm, without ²⁾	2713612 2713531	24	18	12	2713599 2713609	16	12	8	2713641 2713515	4	3	2
	22.5 mm, with ²⁾ 22.5 mm, without ²⁾	2713939 2713942	30	24	18	2713625 2713638	20	16	12	2713476 2713489	5	4	3
	35 mm, with ²⁾ 35 mm, without ²⁾	2713696 2713544	48	36	24	2713670 2713683	32	24	16	2713667 2713528	8	6	4
	45 mm, with ²⁾ 45 mm, without ²⁾	2713913 2713926	60	48	36	2713706 2713719	40	32	24	2713492 2713502	10	8	6
	67.5 mm, with ²⁾ 67.5 mm, without ²⁾	2200526 2200527	90	72	54	2200524 2200525	60	48	36	2200547 2200528	15	12	9
	90 mm ⁸⁾ , with ²⁾ 90 mm ⁸⁾ , without ²⁾	2200531 2200532	120	96	72	2200529 2200530	80	64	48	2200546 2200533	20	16	12
 Flat design Overall depth 92 mm	22.5 mm	2869388	30	24	18								
	45 mm	2869391	60	48	36								
 Ultra-flat design Overall depth 70.4 mm	17.5 mm					2901369	16	12	8				
	22.5 mm					2869362	20	16	12				
	45 mm					2869375	40	32	24				

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				2 DIN rail connectors ⁷⁾			3 Power connectors up to 42 A			
Item No.	Max. no. of pos.			3.81 mm pitch			Left	Cross-connectors		
	Pitch			5 parallel positions	4 parallel positions, 1 series position	Adapter piece, 5 parallel positions				
	3.5 mm	5 mm	7.25 mm, 7.5 mm							
										
ME MAX ... 3-U1				ME ... TBUS ... 1,5/5	ME ... TBUS ... 1,5/4P1S	ME ... TBUS ADAPTER	PCO ... -L ⁶⁾	PBR 42A RD	PBR 42A BU	PBR 42A GY
				2969401 ³⁾						
				2969401 2279033 ⁴⁾						
2201536 2201537	16	12	8	2713645	2201731	2201757	2201684	2201915	2201916	2201917
2201538 2201539	20	16	12	2713722	2201732	2201756	2201685			
				2713645 ⁵⁾	2201731 ⁵⁾	2201757	2201684			
2201682 2201683	40	32	24	2713722 ⁵⁾	2201732 ⁵⁾	2201756	2201685			
				2713722 ⁵⁾	2201732 ⁵⁾	2201756	2201685			
				2713722 ⁵⁾	2201732 ⁵⁾	2201756	2201685			
				2713722	2201732	2201756	2201685			
				2713722 ⁵⁾	2201732 ⁵⁾	2201756	2201685			
				2713645	2201731		2201684			
				2713722	2201732	2201756	2201685			
				2713722 ⁵⁾	2201732 ⁵⁾	2201756	2201685			

All ME MAX series housings can be equipped with a functional ground contact:
ME BUS FE CONTACT [2278076](#)

¹⁾ ME MAX 6,2 has four connection levels

²⁾ With = with vents, without = without vents

³⁾ DIN rail connectors for two ME MAX 6,2... housings each

⁴⁾ Pin strip for soldering into the PCB, for contacting in the ME TBUS PST 1,5/
5-3,81 DIN rail connector

⁵⁾ DIN rail connectors and adapters can be freely combined, taking the required quantity
relative to the housing width into account.

⁶⁾ Note: Swiveling an ME MAX combined with PCO onto the DIN rail is only possible
with the tall ME MAX ... 2-2 design.

⁷⁾ Connector part for bus connector [1719697](#)

Inverted connector part for bus connector [1719707](#)

Feed-in clip for TBUS connector [2713780](#)

⁸⁾ Upper housing part suitable for integration of display frames [2203537](#), [2203538](#),
and [2203539](#)

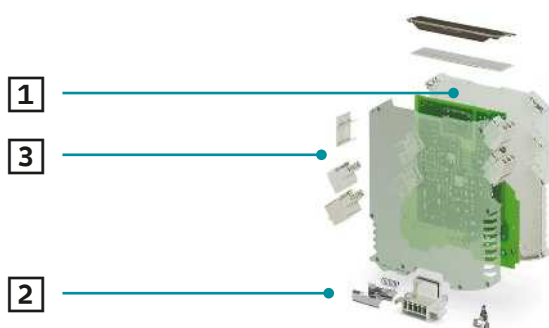
ME MAX series configuration overview: PCB connectors

1 Housing						3 Connection technology						
Housing	Housing width	Item No.				3.5 mm pitch						
						Headers		Connectors			Headers	
						Wave soldering		Screw	Push-in	Push-in	Wave soldering	
						Left	Right				Left	Right
												
			ME MAX ... 3-3	ME MAX ... 2-2	ME MAX ... U-U1	ME MAX ... 3-U1						
 Tall design (standard) Overall depth 114.5 mm	6.2 mm		2869634 ¹⁾ 2869647 ²⁾									
	12.5 mm, with ³⁾ 12.5 mm, without ³⁾		2279020 2279017									
	17.5 mm, with ³⁾ 17.5 mm, without ³⁾		2713612 2713531	2713599 2713609	2713641 2713515	2201536 2201537						
	22.5 mm, with ³⁾ 22.5 mm, without ³⁾		2713939 2713942	2713625 2713638	2713476 2713489	2201538 2201539						
	35 mm, with ³⁾ 35 mm, without ³⁾		2713696 2713544	2713670 2713683	2713667 2713528							
	45 mm, with ³⁾ 45 mm, without ³⁾		2713913 2713926	2713706 2713719	2713492 2713502	2201682 2201683						
	67.5 mm, with ³⁾ 67.5 mm, without ³⁾		2200526 2200527	2200524 2200525	2200547 2200528							
	90 mm, with ³⁾ 90 mm, without ³⁾		2200531 2200532	2200529 2200530	2200546 2200533							
 Flat design Overall depth 92 mm	22.5 mm		2869388									
	45 mm		2869391									
 Ultra-flat design Overall depth 70.4 mm	17.5 mm			2901369								
	22.5 mm			2869362								
	45 mm			2869375								

3 Connection technology

3.5 mm pitch						
Headers		Connectors			Headers	
Wave soldering		Screw	Push-in	Push-in	Wave soldering	
Left	Right				Left	Right
						
MCO 1,5/ ... G1 ...-3,5		MC	FMC	FK-MCP	MSTBO 2,5/ ... G1 ...	
2278319	2278322	1769061			2854788	2854791
2278364	2278377	1769074	1773578	1773594	2853750	2853763
2278380	2278351	1769087	1773581	1773604	2907774	2907787
2278364	2278377	1769074	1773578	1773594	2853750	2853763
2278380	2278351	1769087	1773581	1773604	2907774	2907787
2278364	2278377	1769074	1773578	1773594	2853750	2853763
2278380	2278351	1769087	1773581	1773604	2907774	2907787

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Headers and connectors														Filler plugs
5 mm pitch										7.25 mm pitch				
Headers								Connectors		Headers		Connectors		
Wave soldering		Reflow soldering (THR)				Wave soldering		Push-in	Screw	Reflow soldering (THR)		Screw		
Left	Right	Left	Right			Left	Right			Left	Right			
														
MSTBO 2,5/ ... G1 ... AU		MSTBO 2,5/ ... -G1 ... THR ...		MSTBO 2,5/ ... G1 ... THR ... AU		MSTBO 2,5/ ... - G1P ...		PSPT 2,5/ ...	MSTBT ... STP	GMSTBO 2,5 HV/ ... -G ... THR ...	GMSTBT 2,5 HV	ME MAX B- ...		
1077603	1077604	2200251	2200252	1077609	1077610	2200330	2200331	2202346	2200334				2914660	
1077605	1077606	2915216	2915229	1077611	1077612	2200328	2200329	2202345	2200333	2199867	2199760	2199757	2706959	
1077607	1077608	2697194	2697204	1077613	1077614	2200325	2200326	2202344	2200332	2199663	2199566	2199553	2707929	
1077605	1077606	2915216	2915229	1077611	1077612	2200328	2200329	2202345	2200333	2199867	2199760	2199757	2706959	
1077607	1077608	2697194	2697204	1077613	1077614	2200325	2200326	2202344	2200332	2199663	2199566	2199553	2707929	
1077605	1077606	2915216	2915229	1077611	1077612	2200328	2200329	2202345	2200333	2199867	2199760	2199757	2706959	
1077607	1077608	2697194	2697204	1077613	1077614	2200325	2200326	2202344	2200332	2199663	2199566	2199553	2707929	

¹⁾ ME MAX 6,2 SC ... has four connection levels with screw connection.

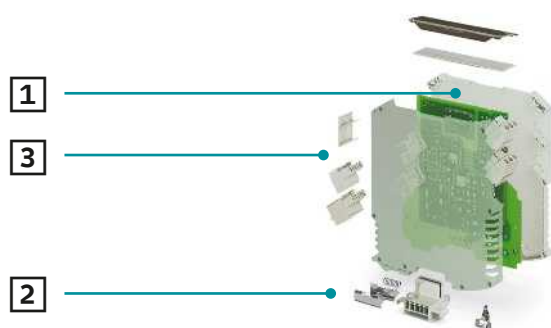
²⁾ ME MAX 6,2 SP ... has four connection levels with spring connection.

³⁾ With = with vents, without = without vents

ME MAX series configuration overview: PCB terminal blocks

1 Housing						3 Connection technology	
Housing	Housing width	Item No.				3.5 mm pitch	
						Screw connection technology	
						Left	Right
							
		ME MAX ... 3-3	ME MAX ... 2-2	ME MAX ... U-U1	ME MAX ... 3-U1	MKDSO 1,5	
 Tall design (standard) Overall depth 114.5 mm	6.2 mm	2869634 ¹⁾ 2869647 ²⁾					
	12.5 mm, with ³⁾ 12.5 mm, without ³⁾	2279020 2279017				2278445	2278458
	17.5 mm, with ³⁾ 17.5 mm, without ³⁾	2713612 2713531	2713599 2713609	2713641 2713515	2201536 2201537	2278432	2278429
	22.5 mm, with ³⁾ 22.5 mm, without ³⁾	2713939 2713942	2713625 2713638	2713476 2713489	2201538 2201539	2278393	2278416
	35 mm, with ³⁾ 35 mm, without ³⁾	2713696 2713544	2713670 2713683	2713667 2713528		2278432	2278429
	45 mm, with ³⁾ 45 mm, without ³⁾	2713913 2713926	2713706 2713719	2713492 2713502	2201682 2201683	2278393	2278416
	67.5 mm, with ³⁾ 67.5 mm, without ³⁾	2200526 2200527	2200524 2200525	2200547 2200528			
	90 mm, with ³⁾ 90 mm, without ³⁾	2200531 2200532	2200529 2200530	2200546 2200533			
 Flat design Overall depth 92 mm	22.5 mm	2869388					
	45 mm	2869391					
 Ultra-flat design Overall depth 70.4 mm	17.5 mm		2901369			2278432	2278429
	22.5 mm		2869362				
	45 mm		2869375			2278393	2278416

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PCB terminal blocks									Filler plugs
5 mm pitch		7.5 mm pitch		5 mm pitch		7.5 mm pitch			
Screw connection technology		Screw connection technology		Push-in connection technology		Push-in connection technology			
Left	Right	Left	Right	Left	Right	Left	Right		
									
MKDSO 2,5		MKDSO 2,5 HV		FKDSO 2,5		FKDSO 2,5 HV		ME MAX B-...	
2915261	2915258			2200315	2200316			2914660	
2854102	2854092	2199676	2199773	2200318	2200317			2706959	
2908485	2908472	2890946	2890959	2200319	2200320	2201128	2201129	2707929	
2854102	2854092	2199676	2199773	2200318	2200317			2706959	
2908485	2908472	2890946	2890959	2200319	2200320	2201128	2201129	2707929	
2854102	2854092	2199676	2199773	2200318	2200317			2706959	
2908485	2908472	2890946	2890959	2200319	2200320	2201128	2201129	2707929	

¹⁾ ME MAX 6,2 SC ... has four connection levels with screw connection.

²⁾ ME MAX 6,2 SP ... has four connection levels with spring connection.

³⁾ With = with vents, without = without vents

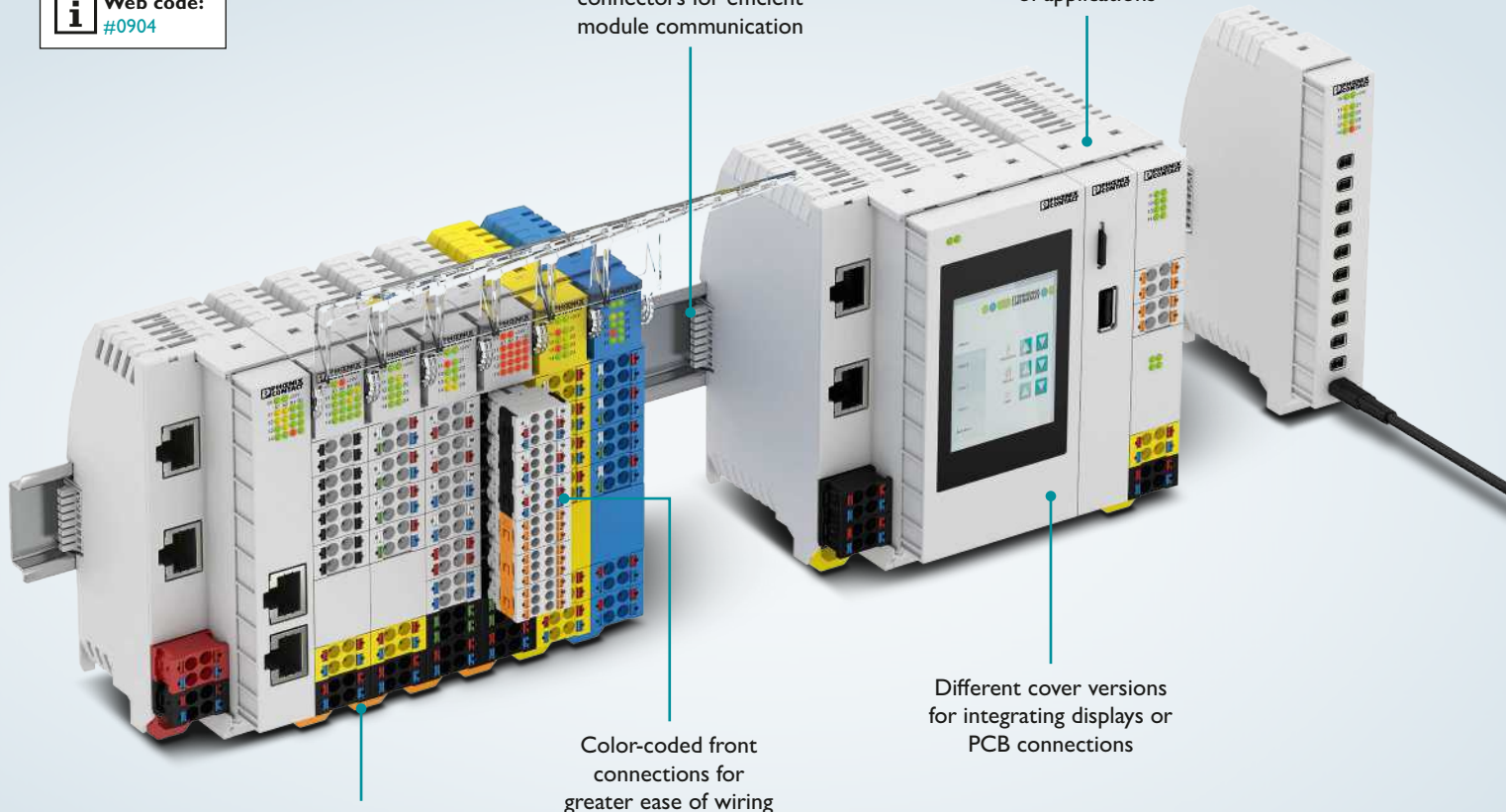
Multifunctional housings ME-IO with modular front connection technology

The ME-IO housing system is particularly suitable for applications with limited installation space and exacting functional 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 the compact design make it possible to realize individual devices with up to 48 positions per 18.8 mm overall width.



Optional DIN rail
connectors for efficient
module communication

Up to four overall module
widths (18.8 mm/37.6 mm/
56.4 mm/75.2 mm)
for a wide range
of applications

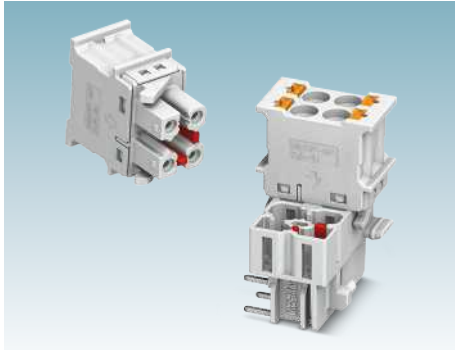


Lock and release system
for easy installation and
removal of connectors

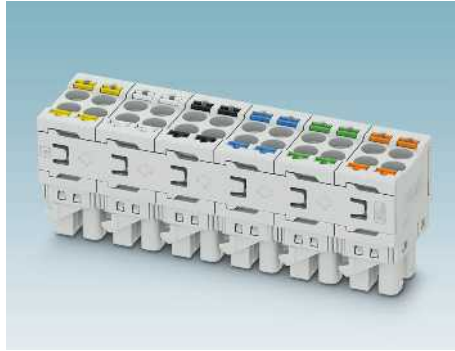
Color-coded front
connections for
greater ease of wiring

Different cover versions
for integrating displays or
PCB connections

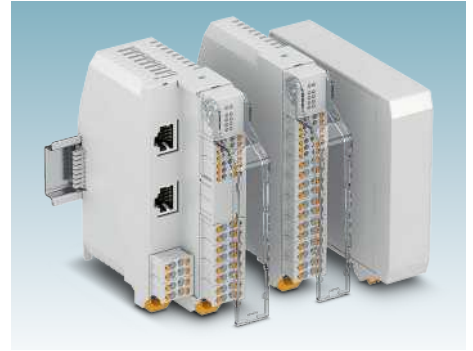
Your advantages



More reliable connection with optional coding elements in connectors and headers



Blockbelts enable connector types to be grouped mechanically in any way in a confined space



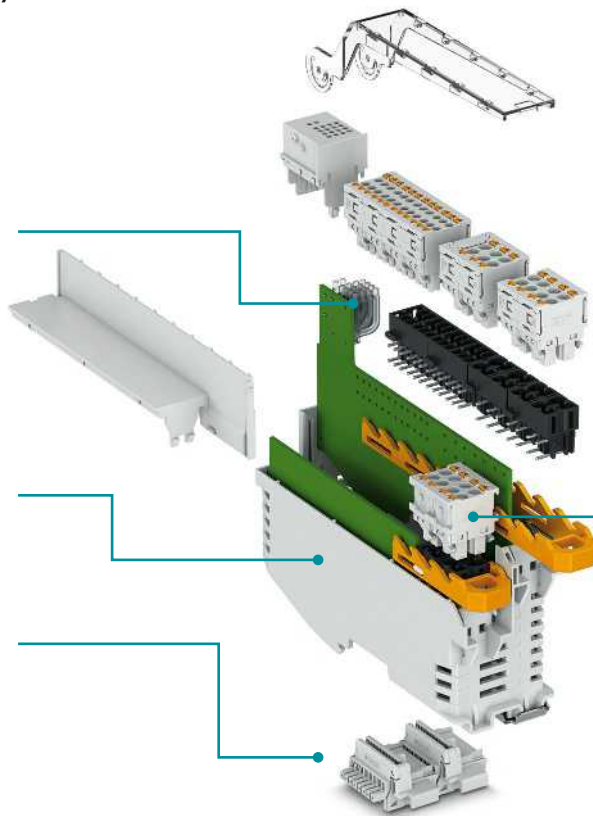
Combination option with the ICS housing family via the 8-pos. TBUS DIN rail connector

Configure your product the way you want

4 Select the accessories

2 Define the lower housing part

1 Specify a DIN rail connector



3 Select the connection technology

Go directly to the online configurator

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i Web code: [#0512](#)

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

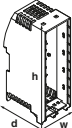
Test the ME-IO series and get in touch with your sales contact person (sample set: 52005220).

ME-IO series configuration overview

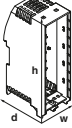
1 DIN rail connector/module communication

Number of positions	5-pos.	8-pos.					
Description	5 parallel	8 parallel	7 parallel, 1 series	6 parallel, 2 series	4 parallel, 4 series		Termination
							
Item No.	2201813	2202396	2202399	2202403	1140958		1821151

2 Housing module type standard (PCB surface max. ~6,580 mm²/18.8 mm width)

Height	10 units						
Module depth	69.9 mm ¹⁾						
Module width	18.8 mm	LB 37.6 mm	37.6 mm			LB 75.2 mm	75.2 mm
							
Color similar to	■ RAL 7035	■ RAL 7035	■ RAL 7035			■ RAL 7035	■ RAL 7035
Item No.	2202506	2202618	2202663			2202620	2202664
Item No. with FE contact	2202507	2202619				2202621	
Color similar to	■ RAL 5015	■ RAL 5015	■ RAL 5015			■ RAL 5015	■ RAL 5015
Item No.	1248491	1248494	1248506			1248498	1248519
Color similar to	■ RAL 1018	■ RAL 1018	■ RAL 1018			■ RAL 1018	■ RAL 1018
Item No.	1248490	1248492	1248505			1248497	1248508

2 Housing module type extended (PCB surface max. ~8,510 mm²/18.8 mm width)

Height	10 units						
Module depth	88.5 mm ¹⁾						
Module width	18.8 mm	LB 37.6 mm	37.6 mm	LB 56.4 mm	56.4 mm	LB 75.2 mm	75.2 mm
							
Item No.	1103440	1103436	1103438	1158982	1159013	1158978	1158981

¹⁾ Distance between module front surface and DIN rail support surface

²⁾ Optional for 2202620 and 2202664 as an additional base latch

³⁾ For installation in all module widths 37.6 mm, 56.4 mm, and 75.2 mm

⁴⁾ For installation in 2202618, 2202619, 2202620, 2202621, 1103436, 1158982, and 1158978

Go directly to the online configurator

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

i Web code: #0512

3 Connection technology lock and release system (based on the number of plugs)

Description	9U L&R	7U L&R	5U L&R	3U L&R
				
Color similar to	 RAL 2003	 RAL 2003	 RAL 2003	 RAL 2003
Item No.	2201794	2201795	2201796	2201797
Color similar to	 RAL 5015	 RAL 5015	 RAL 5015	 RAL 5015
Item No.	2203851	2203850	1083384	2203849
Color similar to	 RAL 1018	 RAL 1018	 RAL 1018	 RAL 1018
Item No.	1090370	1090368	1090367	1090366
Color similar to	 RAL 3001	 RAL 3001	 RAL 3001	 RAL 3001
Item No.	1090364	1090363	1090362	1090361
Color similar to	 RAL 9005	 RAL 9005	 RAL 9005	 RAL 9005
Item No.	1090360	1090359	1090358	1090356
Color similar to	 RAL 9010	 RAL 9010	 RAL 9010	 RAL 9010
Item No.	1090355	1090353	1090352	1090351

3 Connection technology base strips (additional variants depending on the front connection technology plug on request)

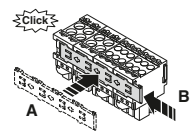
Conductor cross-section [mm²]	2.5					1.5	
Compatible plug type	4-pos.	4-pos.	4-pos. and 2-pos., bottom	2-pos., bridged	4-pos. and 2-pos., bridged	6-pos.	6-pos.
Slots	3	2	2	2	2	2	3
							
Item No. for wave	2201788	2201789	2201792	2201790	2203783	2202233	2202232
Item No. for THR	2203406	2203405				2203409	2203408

4 Accessories for modular housings

Description	FE contact	Base latch ²⁾	L&R spring	Filler plugs	Insulation plate ³⁾	L cover ⁴⁾	
							
Item No.	2278076	2201812	2202599	2202635	2202629	2202622	2202626

ME-IO series configuration overview

3 Connection technology – connectors ¹⁾							
Description	Standard types						
Conductor cross-section [mm ²]	2.5						1.5
Connector type	4-pos.	2-pos., bridged ²⁾	2-pos. bottom	2-pos. top	Filler plugs		6-pos.
Pusher color similar to	 RAL 2003	 RAL 2003	 RAL 2003	 RAL 2003			 RAL 2003
							
Item No.	2201780	2201781	2201782	1081099	2202610		2202234
Description	Pusher standard color options ¹⁾						
Conductor cross-section [mm ²]	2.5						
Connector type	4-pos.	4-pos.	4-pos.	4-pos.	4-pos.	4-pos.	2-pos., bridged ²⁾
Pusher color similar to:	 RAL 1018	 RAL 9010	 RAL 9005	 RAL 5015	 RAL 6021	 RAL 3013	 RAL 6021
							
Item No.	2202567	2202568	2202569	2202570	2202571	2202572	2202607
Description	Pusher combination color options ¹⁾						
Conductor cross-section [mm ²]	2.5						1.5
Connector type	4-pos.	4-pos.	4-pos.	4-pos.	4-pos.	2-pos., bridged ²⁾	6-pos.
							
Item No.	2202605	2202608	2203192	2203194	2203195	2202606	2202609

3 Connection technology – accessories						
Description	Blockbelts					Coding pins
Pitch	2U	3U	4U	5U	6U	
						
Item No.	1056724	1056723	1056722	1081099	2202610	1790647

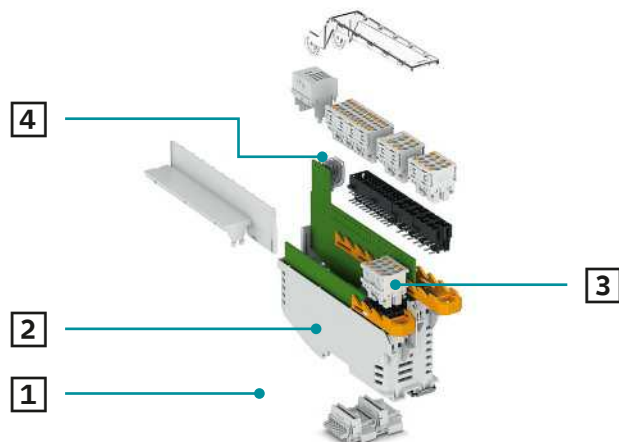
¹⁾ Other versions available on request

²⁾ Ideal for potential distribution

3 Housing cover¹⁾

Pitch	2U	3U	4U	5U	6U	7U
Module width	18.8 mm	18.8 mm	18.8 mm	18.8 mm	18.8 mm	18.8 mm
						
Item No.	2201799	2201800	2201802	2201803	2201804	2201805
Pitch	8U	9U	10U			
Module width	18.8 mm	18.8 mm	18.8 mm	37.6 mm	56.4 mm	75.2 mm
						
Item No.	2202634	2201806	2202630	2202665	2202662	2202583
Pitch	2U for marking lid			Marking lid	Insert label	
Module width	18.8 mm	18.8 mm	18.8 mm			
Description		10 holes Status indicator	18 holes Status indicator			
						
Item No.	2202616	2202582	2202581	2202627	0804286	

Configure your product the way you want

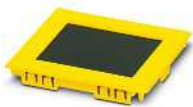


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i Web code: #0512

¹⁾ Housing cover corresponds to the connection technology

4 Visualization					
Description	Light guides				
Pitch	2 x 1 ¹⁾	2 x 2	2 x 4 ²⁾	2 x 5	2 x 10
					
Item No.	1036658	1043044	1036724	1071310	1071314
Pitch	4 x 2	4 x 4 ³⁾	4 x 5	4 x 9	4 x 10
					
Item No.	1071316	1036727	1071318	1071321	1071329
Description	Displays				
	TFT display including frame ⁴⁾	TFT display including frame ⁴⁾	TFT display including frame ⁴⁾	Touch display cover module ⁵⁾	
Frame color similar to	 RAL 7035	 RAL 5015	 RAL 1018		
					
Item No.	2203537	2203539	2203538	1209364	

4 Connection technology – variants				
Description	RJ45			Single Pair Ethernet
Slots	SMD female	LB cover 2 RJ45 jacks 8U	LB cover 2 RJ45 jacks 10U	SPE female
				
Item No. for wave	1149874	1224119	1224121	1163797

¹⁾ For installation in 2202581 and 2202582

²⁾ For installation in 2202582

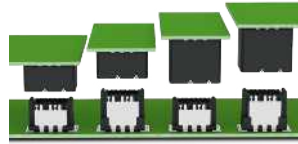
³⁾ For installation in 2202581

⁴⁾ Display frame can be integrated in housing cover 2202583 (75.2 mm width)

⁵⁾ For installation in 2202620, 2202621, 2202664, 1159013, 1158978, and 1158981

4 Board-to-board connectors (for data transmission between two PCBs that are 18.8 mm apart)

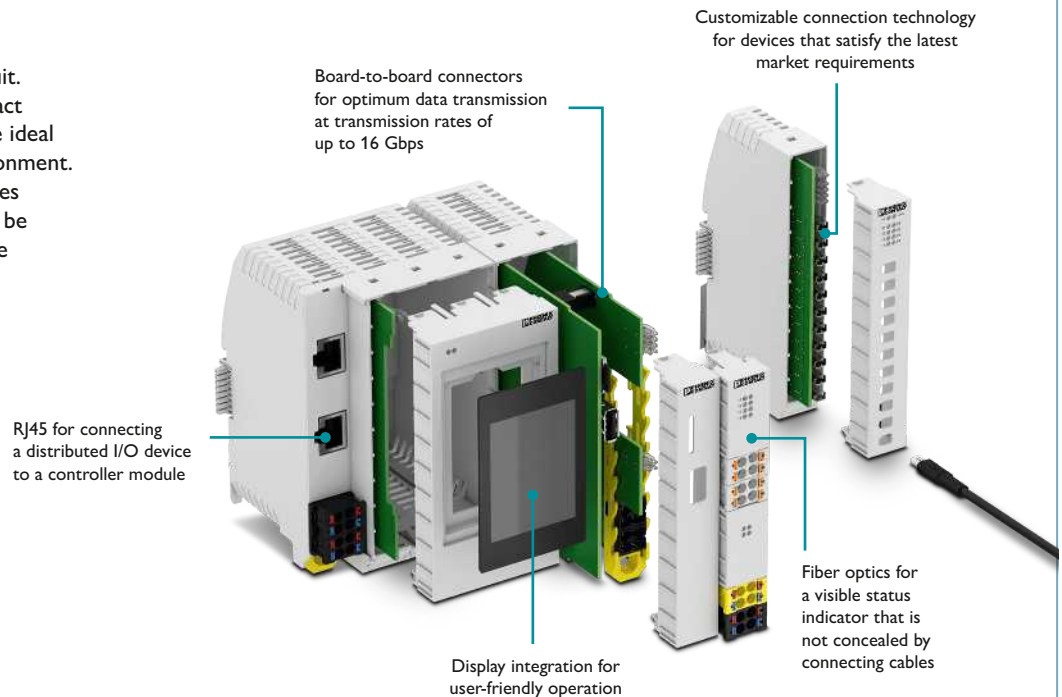
Scale^x



Description	Shielded				
Positions	12	20	32	52	80
Item No. for female connector strip	1043682	1053614	1043683	1043684	1043685
Item No. for male connector strip	1154119	1154120	1154121	1154122	1154123
Description	Unshielded				
Positions	12	20	32	52	80
Item No. for female connector strip	1061580	1061583	1061584	1061585	1061586
Item No. for male connector strip	1154012	1154013	1154014	1154015	1154016

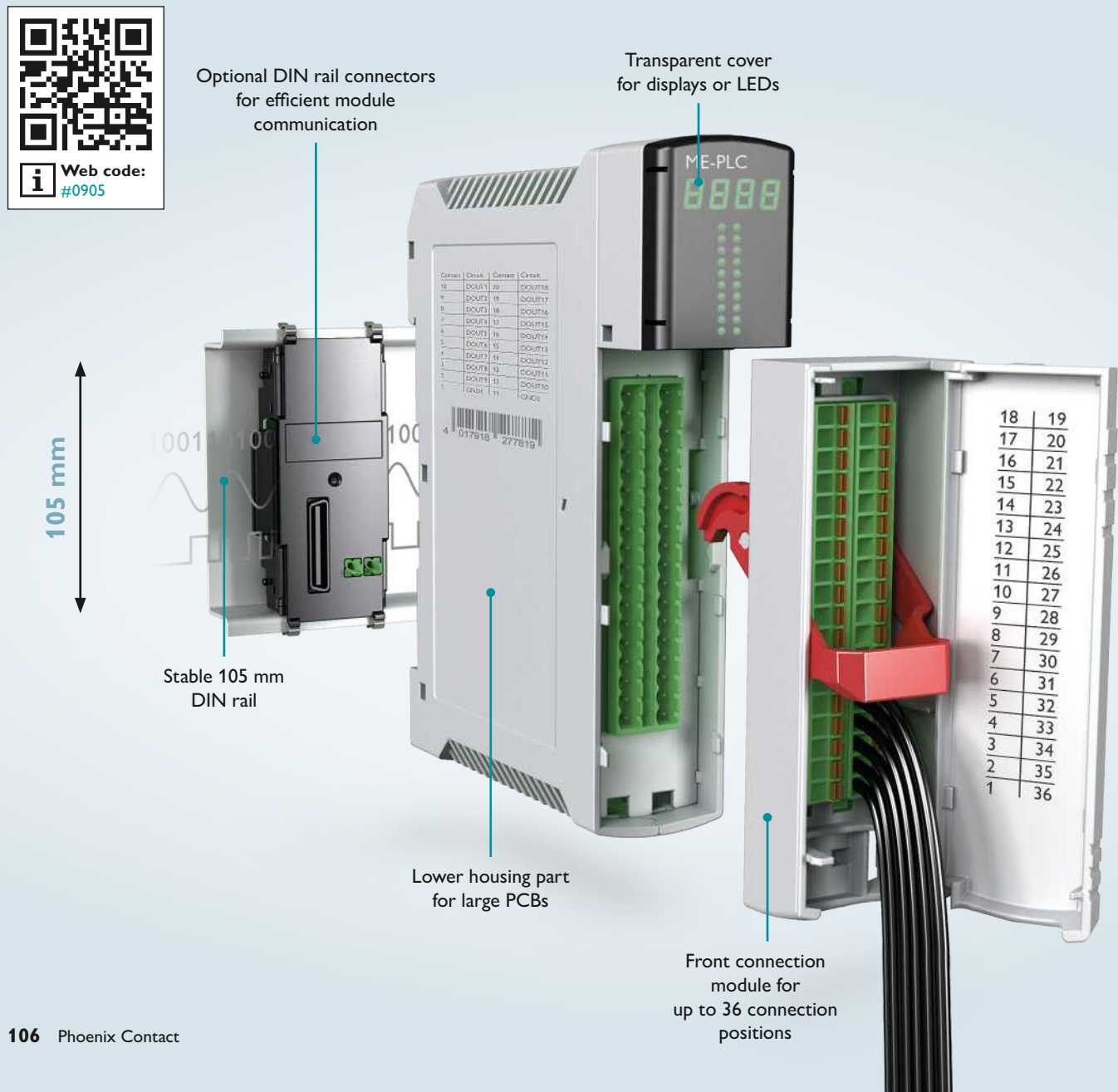
ME-IO as the ideal housing system for your device application

Empty electronics housings must accommodate far more than just the PCB with the electronics circuit. The housings need to be as compact as possible while still providing the ideal interfaces to the application environment. The ME-IO housing system provides a number of components that can be fully integrated for optimum device development.



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 assembly area and efficient DIN rail connectors for a particularly wide range of applications.



Your advantages



Front connection module with lever technology for high connection convenience



Convenient transmission of data and power with up to 50-pos. DIN rail connectors



Universal cover design for freely selectable connection technology

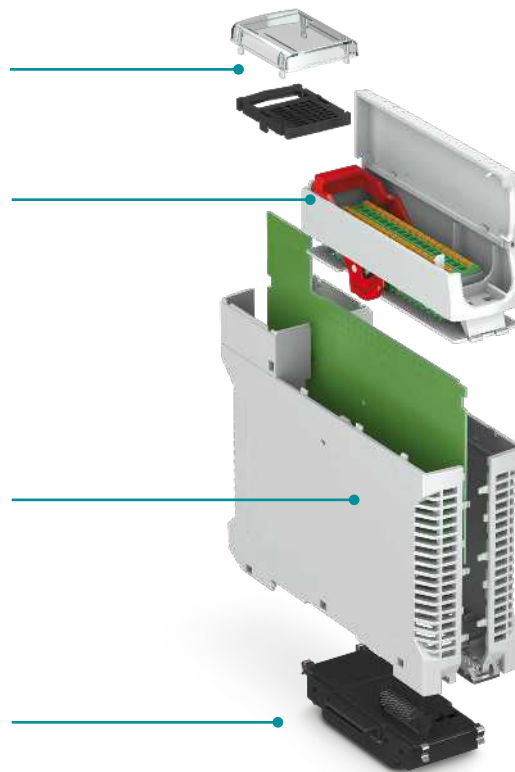
Configure your product the way you want

4 Select the housing termination

3 Select the front connection module

1 Select the lower housing part

2 Determine the DIN rail connector



Go directly to the online configurator

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

i Web code: [#0512](#)

Housing color options (based on RAL color system):

7035 9005 5015 1018

Other colors are available on request.

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

ME-PLC series configuration overview

1 Lower housing parts			
	Description	Type	Item No.
	For 50-/40-pos. bus connector	ME PLC 40 B BUS 50/40 GY7035	2201500
	For 10-/10-pos. bus connector	ME PLC 40 B BUS 10/10 GY7035	2201499
2 DIN rail connectors			
	Set including FE contact, 50-/40-pos. connector without PCB	ME PLC 40 BUS 50/40 KIT BK	2201502
	Set including FE contact, 2 x 10-pos. connector without PCB	ME PLC 40 BUS 10/10 KIT BK	2201503
3 Front connection module			
	Universal cover, securely snapped in	ME PLC 40 CL GY7035	2201505
	Including 2 x 10-pos. FKCN connection technology, swiveling ¹⁾	ME PLC 40 CT20 GY7035	2201493
	Including 2 x 18-pos. FKCN connection technology, swiveling ²⁾	ME PLC 40 CT36 GY7035	2201494
	Including 1 x 10-pos. FKCN connection technology, swiveling ³⁾	ME PLC 40 CT10 GY7035	2201492
	Including 2 x RJ45 connection technology, securely snapped in	ME PLC 40 CTRJ45 GY7035	2201495

¹⁾ Usable for 2 x [1754872](#) FKCN 2,5/10-STF-5,08

²⁾ Usable for [1754953](#) FKCN 2,5/18-STF-5,08

³⁾ Usable for [1754872](#) FKCN 2,5/10-STF-5,08

⁴⁾ With order key; customer-specific order-based production with length specification

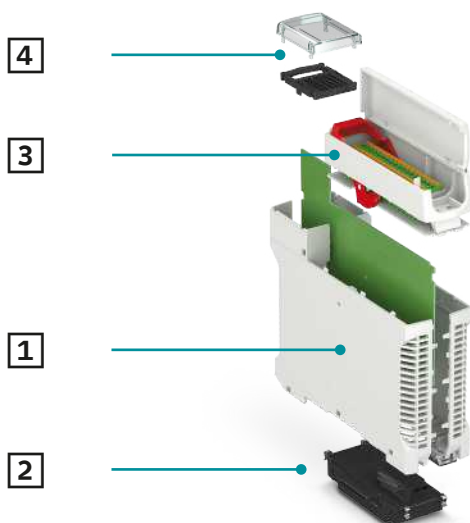
4 Housing termination

	Cover, light gray	ME PLC 40 CS GY7035	2201490
	Insert plate, light gray	ME PLC 40 PL S GY7035	2201497
	Cover, transparent	ME PLC 40 CS TRANS	2201491
	Matrix insert plate, black for cover, transparent	ME PLC 40 MT S BK	2201496

Accessories

	DIN rail, unperforated 105 x 20 mm, cut to size individually	NS 105/20 UNPERF	2201508 DIN rail ⁴⁾
	End bracket for NS 105/20 DIN rail	ME PLC EBT GY7035	2201498

Configure your product the way you want



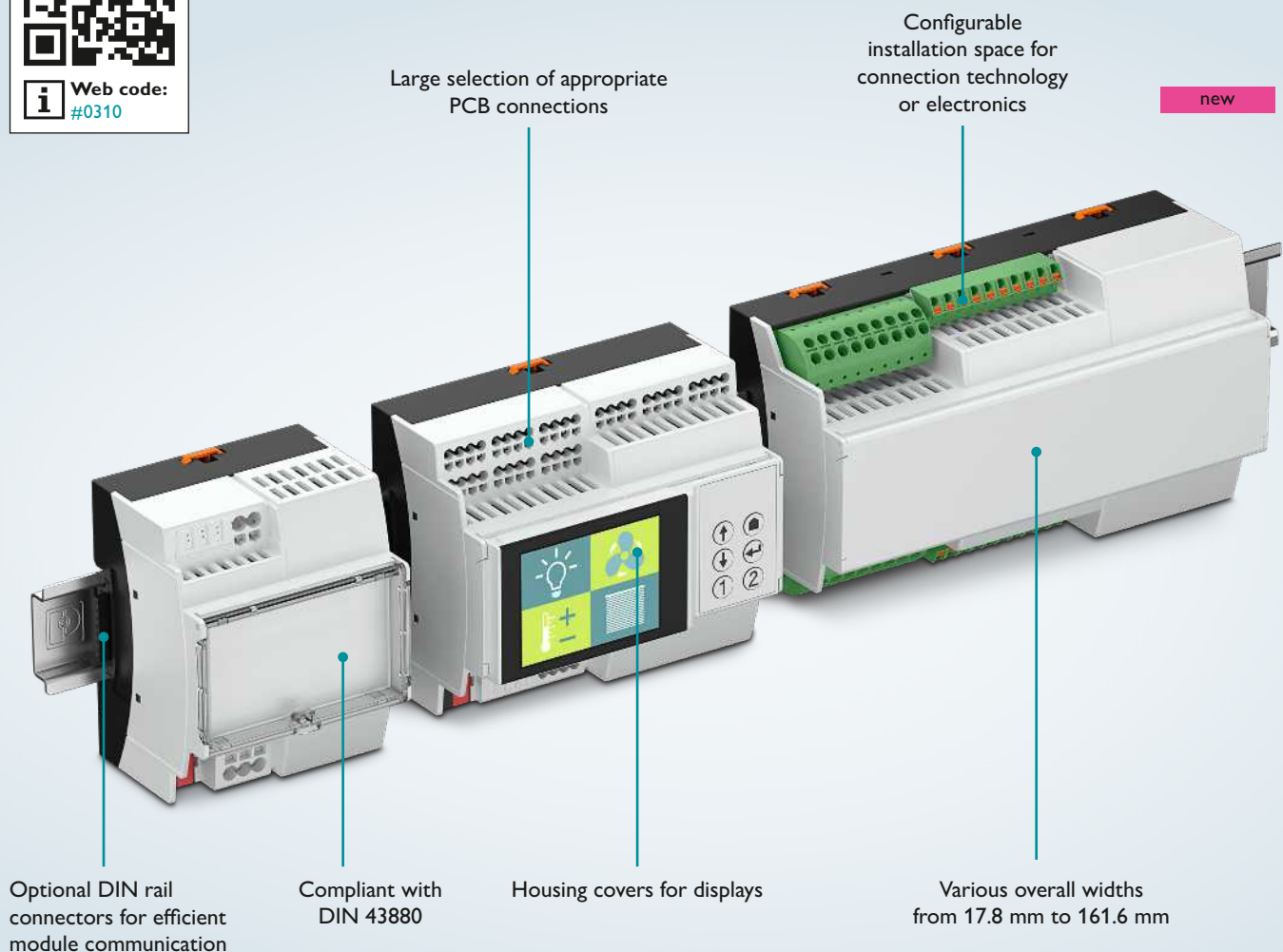
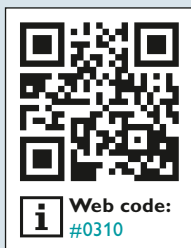
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i Web code: #0512

Modular BC building installation housings

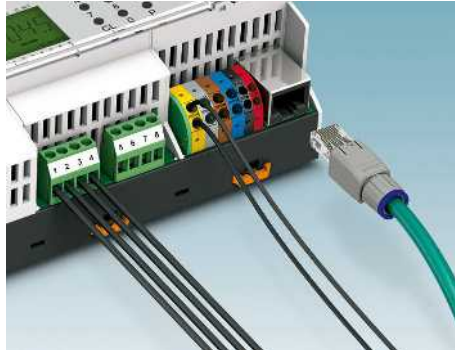
Modular electronics housings from the BC series represent the future in building automation applications. The electronics housings feature a modern design, versatile PCB connections, and an efficient DIN rail connector. The BC housings are suitable for direct wall mounting or for use in distribution boards in accordance with DIN 43880.



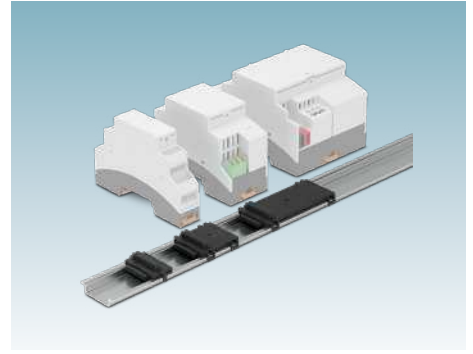
Your advantages



Standard-compliant housing and installation dimensions for use in distribution boards



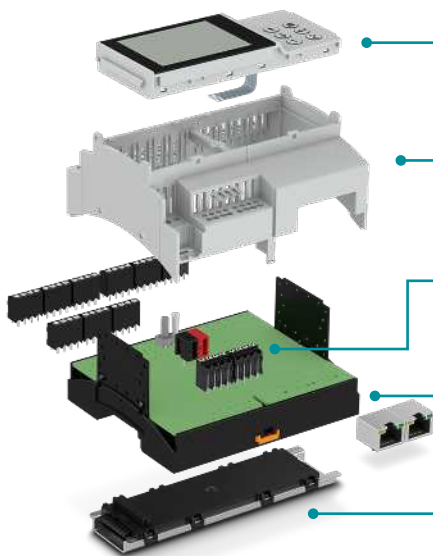
Maximum flexibility with free choice of PCB connection technology and various overall widths



8 or 16-pos. DIN rail connector for series and parallel module communication

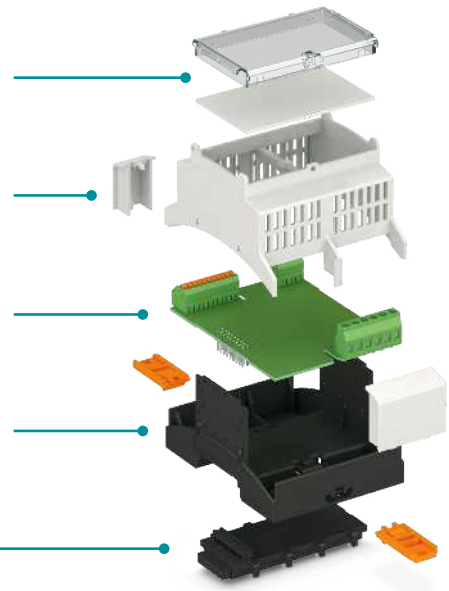
Configure your product the way you want

BC modular



- 3** Select the housing cover
- 2** Select the upper housing part
- 5** Select the connection technology
- 1** Select the lower housing part
- 4** Select the bus connector

BC



Go directly to the online configurator

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

i Web code: **#0512**

Housing color options (based on RAL color system):

7035 9005 5015 7042 3001 1018
Other colors are available on request.

Modular BC building installation housing is also available in RPI variants; see page 52.

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

BC series configuration overview

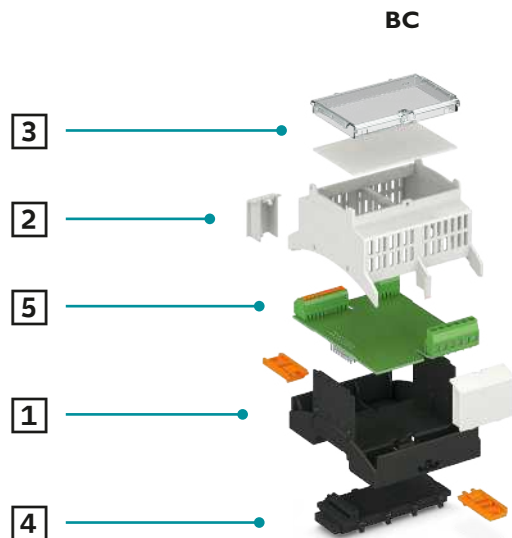
1 Lower housing part				2 Upper housing part			
	Housing width	Color	Item No.		Variants	Color	Item No.
	17.8 mm (1 HP)	Light gray (RAL 7035)	2201070		MKDSO 3-pos.	Light gray (RAL 7035)	2896092
		Jet black (RAL 9005)	2896241			Jet black (RAL 9005)	1227312
	35.6 mm (2 HP)	Light gray (RAL 7035)	1227343		MKDSO 3-/4-pos.	Light gray (RAL 7035)	2279732
		Jet black (RAL 9005)	2896254			Jet black (RAL 9005)	1227302
	53.6 mm (3 HP)	Light gray (RAL 7035)	1227344		U11	Light gray (RAL 7035)	2896034
		Jet black (RAL 9005)	2896403			Jet black (RAL 9005)	2200777
	71.6 mm (4 HP)	Light gray (RAL 7035)	1227344		U22	Light gray (RAL 7035)	2896047
		Jet black (RAL 9005)	2896267			Jet black (RAL 9005)	1227303
	107.6 mm (6 HP)	Light gray (RAL 7035)	2202951		U11	Light gray (RAL 7035)	2896416
		Jet black (RAL 9005)	2896270			Jet black (RAL 9005)	2201607
	161.6 mm (9 HP)	Light gray (RAL 7035)	1227345		U22	Light gray (RAL 7035)	2896429
		Jet black (RAL 9005)	2278500			Jet black (RAL 9005)	2202193
					U11	Light gray (RAL 7035)	2896050
						Jet black (RAL 9005)	2202539
					U22	Light gray (RAL 7035)	2896063
						Jet black (RAL 9005)	2202988
					U11	Light gray (RAL 7035)	2896076
						Jet black (RAL 9005)	2200721
					U22	Light gray (RAL 7035)	2896089
						Jet black (RAL 9005)	2203763
					U11	Light gray (RAL 7035)	2278513
						Jet black (RAL 9005)	2202833
					U22	Light gray (RAL 7035)	2278526
						Jet black (RAL 9005)	2201665

i Web code for the product list: #0311

3 Housing cover

	Variants	Color	Item No.
	Latching cover, non-detachable	Light gray (RAL 7035)	2896144
		Jet black (RAL 9005)	1210710
	Swivel cover, transparent	Light gray (RAL 7035)	2896102
		Jet black (RAL 9005)	1227301
	Latching cover, non-detachable	Light gray (RAL 7035)	2896157
		Jet black (RAL 9005)	2200776
	Swivel cover, transparent	Light gray (RAL 7035)	2896115
		Jet black (RAL 9005)	1227301
	Latching cover, non-detachable	Light gray (RAL 7035)	2896432
		Jet black (RAL 9005)	2201608
	Swivel cover, transparent	Light gray (RAL 7035)	2896445
		Jet black (RAL 9005)	1210712
	Latching cover, non-detachable	Light gray (RAL 7035)	2896160
		Jet black (RAL 9005)	1204540
	Swivel cover, transparent	Light gray (RAL 7035)	2896128
		Jet black (RAL 9005)	1210714
	Latching cover, non-detachable	Light gray (RAL 7035)	2896173
		Jet black (RAL 9005)	2200722
	Swivel cover, transparent	Light gray (RAL 7035)	2896131
		Jet black (RAL 9005)	1210715
	Latching cover, non-detachable	Light gray (RAL 7035)	2278539
		Jet black (RAL 9005)	2201664
	Swivel cover, transparent	Light gray (RAL 7035)	2278542
		Jet black (RAL 9005)	1059059

Configure your product the way you want



Go directly to the online configurator

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

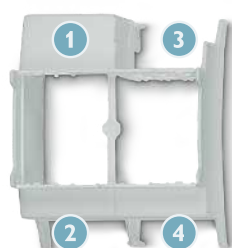
i Web code: #0512

BC modular series configuration overview

1 Lower housing part				2 Upper housing part, configurable		
	Housing width	Color	Item No.		Type	Item No.
	71.6 mm (4 HP)	Light gray (RAL 7035)	1227344		BC 71,6 OT 2P2K00C KMGY	1340864
		Jet black (RAL 9005)	2896267			
	107.6 mm (6 HP)	Light gray (RAL 7035)	2202951		BC 107,6 OT 1D1K1P0R KMGY	1340863
		Jet black (RAL 9005)	2896270			
	161.6 mm (9 HP)	Light gray (RAL 7035)	1227345		BC 161,6 OT 0C0C0C0C22 KMGY	2201455
		Jet black (RAL 9005)	2278500			

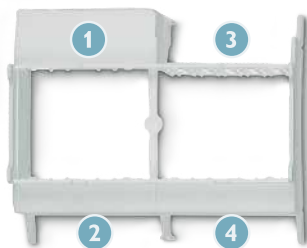
Example configuration BC modular		
Configuration	Order code	Description
0 mm	0	The side wall is located on the outermost position for a lot of assembly area inside the housing
11 mm	1	Medium side wall position for more space in the housing
22 mm	2	The side wall is located on the innermost position for a lot of space for the connection technology
0 mm closed	0C	The side wall is located on the outermost position, without vents for individual cutouts (RJ45, USB, etc.)
SPT 1,5, single-row	1P	Housing design for PCB terminal blocks of the SPT-THR 1,5 series
SPT 2,5	2P	Housing design for PCB terminal blocks of the SPT-THR 2,5 series
SPT 1,5, double-row	1D	Housing design for PCB terminal blocks of the SPT-THR 1,5 series, double-row arrangement possible
SPT 1,5 for KNX	1K	Housing design for PCB terminal blocks of the SPT-THR 1,5 series with contour for KNX connector
SPT 2,5 for KNX	2K	Housing design for PCB terminal blocks of the SPT-THR 2,5 series with contour for KNX connector

Overall width 71.6 (4 HP)



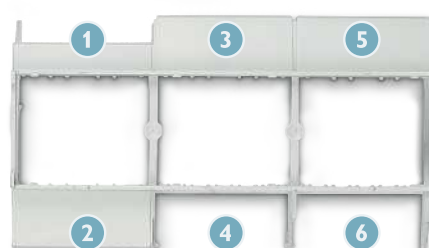
Order code
(example for illustration purposes)
BC 71,6 OT 0 1 2 1

Overall width 107.6 (6 HP)



Order code
(example for illustration purposes)
BC 107,6 OT 0 1 2 1

Overall width 161.6 (9 HP)



Order code
(example for illustration purposes)
BC 161,6 OT 1 0 0 2 0 2

BC 71,6 OT	0	1	2	1
Designation and overall width	1	2	3	4

Terminal installation depth: 0 = 0 mm, 1 = 11 mm, 2 = 22 mm

3 Housing cover

	Variants	Color	Item No.
	Latching cover, non-detachable	Light gray (RAL 7035)	2896160
		Jet black (RAL 9005)	1204540
	Swivel cover, transparent	Light gray (RAL 7035)	2896128
		Jet black (RAL 9005)	1210714
	Latching cover, non-detachable	Light gray (RAL 7035)	2896173
		Jet black (RAL 9005)	2200722
	Swivel cover, transparent	Light gray (RAL 7035)	2896131
		Jet black (RAL 9005)	1210715
	Latching cover, non-detachable	Light gray (RAL 7035)	2278539
		Jet black (RAL 9005)	2201664
	Swivel cover, transparent	Light gray (RAL 7035)	2278542
		Jet black (RAL 9005)	1059059

5 Select the connection technology

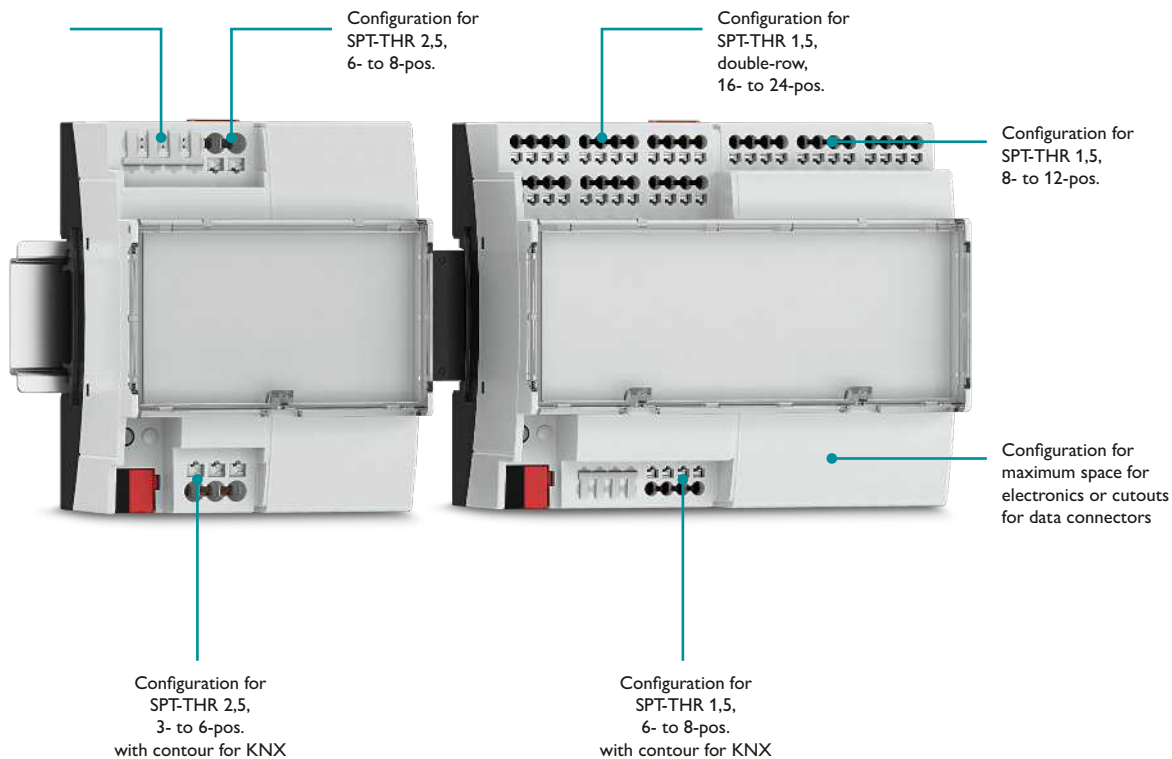
	Type	Item No.
	SPT-THR 2,5/3-V-5,0 P20 R32	1135334
	BC F SPT 2,5/4 KMGY	1340860
	SPT-THR 1,5/4-V-3,81 P26	1822448
	BC F SPT 1,5/4 KMGY	1340862
	Free selection of PCB connection technology starting on page 116	

BC modular with SPT-THR modular

Benefit from the convenient operation of the Push-in connection technology on the housing front. Configure your individual housing solution for your application.

Housing cover with touch display or membrane keypad and an 8 and 16-pos. DIN rail connector round out our housing range for building automation.

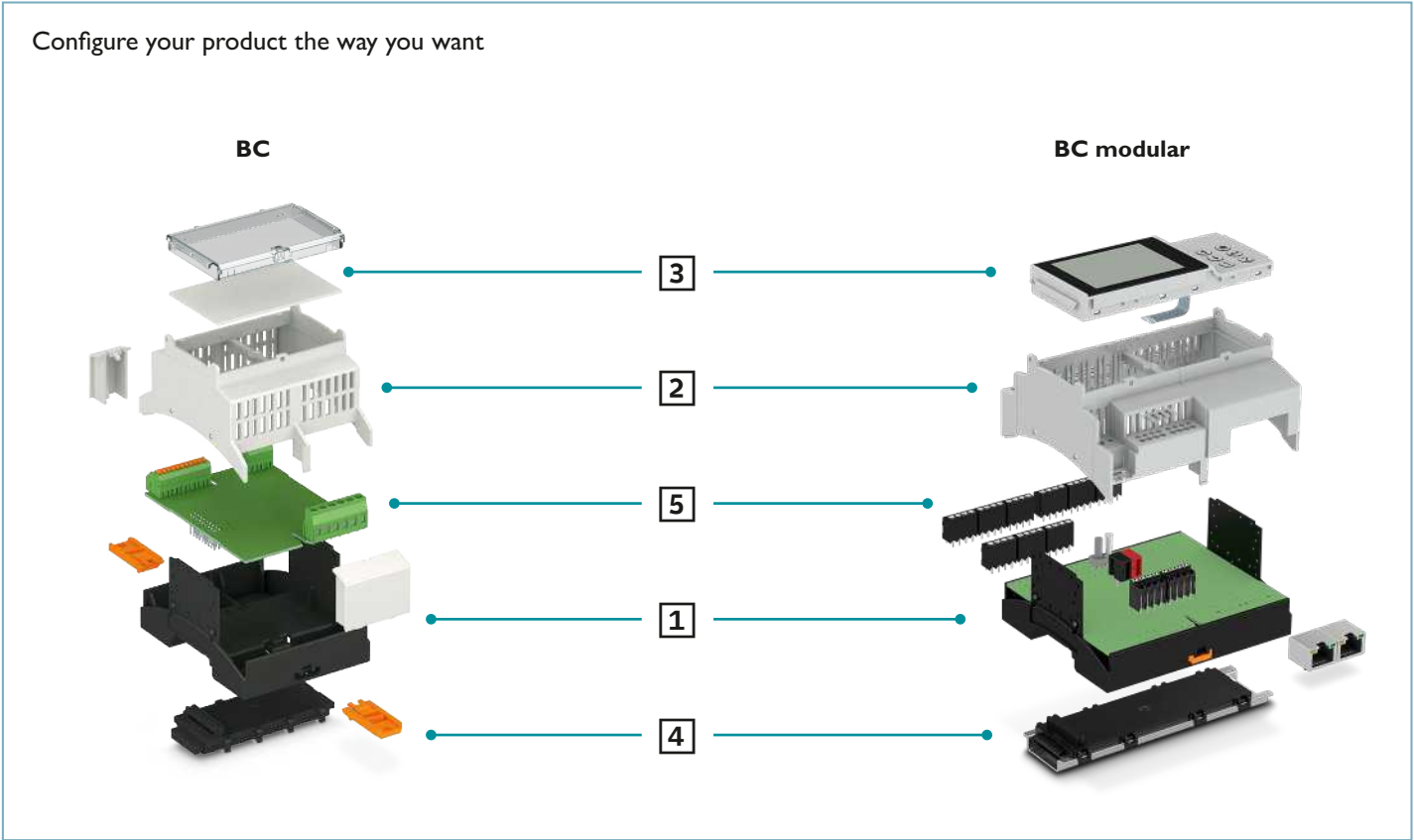
Filler for
SPT-THR 1,5/2,5
non-assembled
terminal area



BC modular series configuration overview

3 Cover with integrated touch display and optional membrane keypad								
								
Description		Cover with integrated touch display					Membrane keypad	
Membrane keypad				Prepared		Prepared	4 keys for BC 107,6 and BC 161,6	6 keys for BC 107,6 and BC 161,6
Type		BC 71,6 DKL R D2,4 TCG	BC 107,6 DKL R D2,4 TCG	BC 107,6 DKL R D2,4 KPG	BC 161,6 DKL R D2,4 TCG	BC 161,6 DKL R D2,4 KPG	KP BC K4 C2 P5	KP BC K6 C2 P7
Color	Light gray (RAL 7035)	1335811	1335858 ¹⁾	1335860	1335863	1335864	1337341	1337344
	Jet black (RAL 9005)	1335856	1335861		1335862			

¹⁾ Item with packaging size 1: 1335865



Go directly to the online configurator

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

i Web code: #0512

4 Bus connector for DIN rail mounting

Housing module	Housing width	8-pos.			16-pos.			Slots for the PCB
		new	Type	Item No.		Type	Item No.	
	17.8 mm (1 HP)		HBUS8 17,8-8P-1S BK	1249068		HBUS 35,6-16P-2S BK	2896319	2
						HBUS 53,6-16P-3S BK	2896322	3
	35.6 mm (2 HP)		HBUS8 35,6-8P-1S BK	1249063		HBUS 35,6-16P-1S BK	2896283	1
	53.6 mm (3 HP)		HBUS8 53,6-8P-1S BK	1249064		HBUS 53,6-16P-1S BK	2896458	1
	71.6 mm (4 HP)		HBUS8 71,6-8P-1S BK	1249065		HBUS 71,6-16P-1S BK	2896296	1
	107.6 mm (6 HP)		HBUS8 107,6-8P-1S BK	1252173		HBUS 107,6-16P-1S BK	2896306	1
	161.6 mm (9 HP)		HBUS8 161,6-8P-1S BK	1249066		HBUS 161,6-16P-1S BK	2278555	1

4 Accessories for bus connector for DIN rail mounting

	8-pos.		16-pos.	
Filler plugs				
	Type	Item No.	Type	Item No.
	HBUS8-B SET BK	1252176	HBUS-B SET BK	2278173
Pin strip for BC 17,8				
	Type	Item No.	Type	Item No.
	PSTD 0,65X0,65/9-1-H-2,54	1252179	PSTD 0,65X0,65/9-H-2,54	2200701
Pin strip for BC 35,6 – BC 161,6				
	Type	Item No.	Type	Item No.
	PSTD 0,65X0,65/9-1-2,54	1252180	PSTD 0,65X0,65/9-2,54	2200700
Pin strip for connecting an additional PCB				
	Type	Item No.	Type	Item No.
	PSTD 0,65X0,65/9-3IS-2,54	1252178	PSTD 0,65X0,65/18-3IS-2,54	2202993

BC series configuration overview: PCB terminal blocks and PCB connectors

5 Connection technology for a max. number of positions on each side											
											
	Connection technology	Pitch	Conductor cross-section ¹⁾	Piece	17,8	Piece	35,6 U11	Piece	35,6 U22	Piece	53,6 U11
	Filler plugs for unassembled large segment, light gray (RAL 7035)			2	2854115	1	2896209	1	2896212	1	2896225
	Filler plugs for unassembled large segment, black (RAL 9005)			2	2853019	1	1227307	1	1227306	1	1227305
PCB terminal blocks with screw connection											
	MKDSO 2,5/3-L	5.0 mm	2.5 mm ²	2	2854102 ¹⁾						
	MKDSO 2,5/3-R	5.0 mm	2.5 mm ²	2	2854092						
	MKDSN 2,5/...	5.0 mm	2.5 mm ²			2	1890976	2	1890976	3	1890976
	MKKDSH 3/...	5.0 mm	2.5 mm ²			2	1721346	2	1721346	3	1721346
	MKDS 1,5/...	5.0 mm	1.5 mm ²			2	1715035	2	1715035	3	1715035
	GMKDS 1,5/...	7.5 mm	1.5 mm ²			2	1717020	2	1717020	2	1717033
	GMKDSP 3/...	7.5 mm	2.5 mm ²			2	1732021	2	1732021	2	1732034
	MKKDS 1,5/...	5.0 mm	1.5 mm ²					2	1725012		
	MKKDSG 3/...	5.0 mm	2.5 mm ²					1	1721087		
For the reflow process											
	MKDS 1,5/... HT	5.0 mm	1.5 mm ²			2	1985894	2	1985849	3	1985894
	MKDSN 2,5/... HT	5.0 mm	2.5 mm ²			2	1985933	2	1985933	3	1985933
PCB terminal blocks with Push-in spring connection											
	SPTA 1/... -3,5	3.5 mm	1.5 mm ²			1	1752162	1	1752162	1	1752201
	SPTA 1/... -5,0	5.0 mm	1.5 mm ²			1	1752256	1	1752256	1	1752298
	SDDC 1,5/... -PV-3,5	3.5 mm	1.5 mm ²			1		1	1848697	1	
	TDPT 2,5/... -SC-5,08 ³⁾	5.08 mm	2.5 mm ²			1		1	1017495	1	
	TDPT 2,5/... -SP-5,08	5.08 mm	2.5 mm ²			1		1	1017507	1	
For the reflow process											
	SPT-THR 1,5/... 3,5	3.5 mm	1.5 mm ²			1	1823256	1	1823256	1	1823298
	SPT-THR 1,5/... 5,0	5.08 mm	1.5 mm ²			1	1823450	1	1823450	1	1823489
	SPTA-THR 1,5/... 5,08	5.08 mm	1.5 mm ²					1	1071206		
PCB terminal blocks with spring-cage connection											
	ZFKKDS 1,5C-5,0	5.0 mm	1.5 mm ²					6	1889301		
PCB terminal blocks with double spring connection											
	PTDA 1,5/... -PH-3,5	3.5 mm	1.5 mm ²					1	1725185		
	PTDA 2,5/... -PH-5,0	5.0 mm	2.5 mm ²					1	1725549		
Pin strips											
	PST 1,3/... -5,0	5.0 mm				1	1933228	1	1933228	1	1933257
	PST 1,0/... -3,5	3.5 mm				1	1945164	1	1945164	1	1945216

¹⁾ Based on flexible conductors, additional connection technology possible

²⁾ MKDSO 1,5/4 L&R
2278432
2278429

³⁾ Screw connection.
Same pinning as TDPT 2,5/... -SP...

BC/BC modular

													
Piece	53,6 U22	Piece	71,6 U11	Piece	71,6 U22	Piece	107,6 U11	Piece	107,6 U22	Piece	161,6 U11	Piece	161,6 U22
1	2896238	2	2896209	2	2896212	2	2896225	2	2896238	3	2896225	3	2896238
1	1227304	2	1227307	2	1227306	2	1227305	2	1227304	3	1227305	3	1227304
3	1890976	4	1890976	4	1890976	6	1890976	6	1890976	9	1890976	9	1890976
3	1721346	4	1721346	4	1721346	6	1721346	6	1721346	9	1721346	9	1721346
3	1715035	4	1715035	4	1715035	6	1715035	6	1715035	9	1715035	9	1715035
2	1717033	4	1717020	4	1717020	4	1717033	4	1717033	6	1717033	4	1717033
2	1732034	4	1732021	4	1732021	4	1732034	4	1732034	6	1732034	4	1732034
3	1725025			4	1725012			6	1725025			9	1725025
3	1721087			2	1721087			6	1721087			9	1721087
3	1985894	4	1985894	4	1985849	6	1984950	6	1984950	9	1984950	9	1984950
3	1985933	4	1985933	4	1985933	6	1985933	6	1985933	9	1985933	9	1985933
1	1752201	2	1752162	2	1752162	2	1752201	2	1752201	3	1752201	3	1752201
1	1752298	2	1752256	2	1752256	2	1752298	2	1752298	3	1752298	3	1752298
1	1848749	2		2	1848697	2	0	2	1848749	3	0	3	1848749
1	1017498	2	0	2	1017495	2	0	2	1017498	3	0	3	1017498
1	1017510	2	0	2	1017507	2	0	2	1017510	3	0	3	1017510
1	1823298	2	1823256	2	1823256	2	1823298	2	1823298	3	1823298	3	1823298
1	1823489	2	1823450	2	1823450	2	1823489	2	1823489	3	1823489	3	1823489
1	1071209			2	1071206			2	1071209			3	1071209
9	1889259			12	1889301			18	1889259			27	1889259
1	1725250			2	1725185			2	1725250			3	1725250
1	1725649			2	1725549			2	1725649			3	1725649
1	1933257	2	1933228	2	1933228	2	1933257	2	1933257	3	1933257	3	1933257
1	1945216	2	1945164	2	1945164	2	1945216	2	1945216	3	1945216	3	1945216

BC series configuration overview: PCB terminal blocks and PCB connectors

5 Connection technology for a max. number of positions on each side											
											
	Connection technology	Pitch	Conductor cross-section ¹⁾	Piece	17,8	Piece	35,6 U11	Piece	35,6 U22	Piece	53,6 U11
PCB connectors											
	FK-MPT 0,5/...-ST-3,5	3.5 mm	0.5 mm ²			1	1913992	1	1913992	1	1914056
	PT 1,5/...-PVH-3,5	3.5 mm	1.5 mm ²			1	1984086	1	1984086	1	1984138
	PT 1,5/...-PH-5,0 CLIP	5.0 mm	1.5 mm ²			1	1755774	1	1755774	1	1755800
	PTS 1,5/...-PH-5,0 CLIP	5.0 mm	1.5 mm ²			1	1848574	1	1848574	1	1848600
RJ45 jack connections											
	CUC-SP-J1ST-S/R4LT-SMD	Single port 180° without LED						1	1149611	1	
	CUC-SP-...-A/R4LT-THR-LED	Single port 90° with LED						1	1149867	1	
	CUC-MP-J1ST-A/2R4LT-THR	2 x RJ45 multi-port 90° without LED									

FP 0,8 board-to-board connectors (shielded)								 Web code: #2050	
									
	Vertical male connector strip				Vertical female connector strip				
	Installed height 1.15 mm		Installed height 2.65 mm		Installed height 4.85 mm		Installed height 7.85 mm		
Positions	Type	Item No.	Type	Item No.	Type	Item No.	Type	Item No.	
12	FP 0,8/12-MV-SH 1,15	1043786	FP 0,8/12-MV-SH 2,65	1043731	FP 0,8/12-FV-SH 4,85	1043710	FP 0,8/12-FV-SH 7,85	1043682	
32	FP 0,8/32-MV-SH 1,15	1043787	FP 0,8/32-MV-SH 2,65	1043733	FP 0,8/32-FV-SH 4,85	1043711	FP 0,8/32-FV-SH 7,85	1043683	
80	FP 0,8/80-MV-SH 1,15	1043790	FP 0,8/80-MV-SH 2,65	1043757	FP 0,8/80-FV-SH 4,85	1043714	FP 0,8/80-FV-SH 7,85	1043685	

FP 1,27 board-to-board connectors (unshielded)						 Web code: #1520
						
	Vertical female connector strip		Vertical male connector strip			
	Installed height: 6.25 mm		Installed height: 1.75 mm		Installed height: 3.25 mm	
Positions	Type	Item No.	Type	Item No.	Type	Item No.
12	FP 1,27/12-FV 6,25	1714891	FP 1,27/12-MV 1,75	1714934	FP 1,27/12-MV 3,25	1714924
40	FP 1,27/40-FV 6,25	1714897	FP 1,27/40-MV 1,75	1714941	FP 1,27/40-MV 3,25	1714930
80	FP 1,27/80-FV 6,25	1714901	FP 1,27/80-MV 1,75	1714945	FP 1,27/80-MV 3,25	1714933

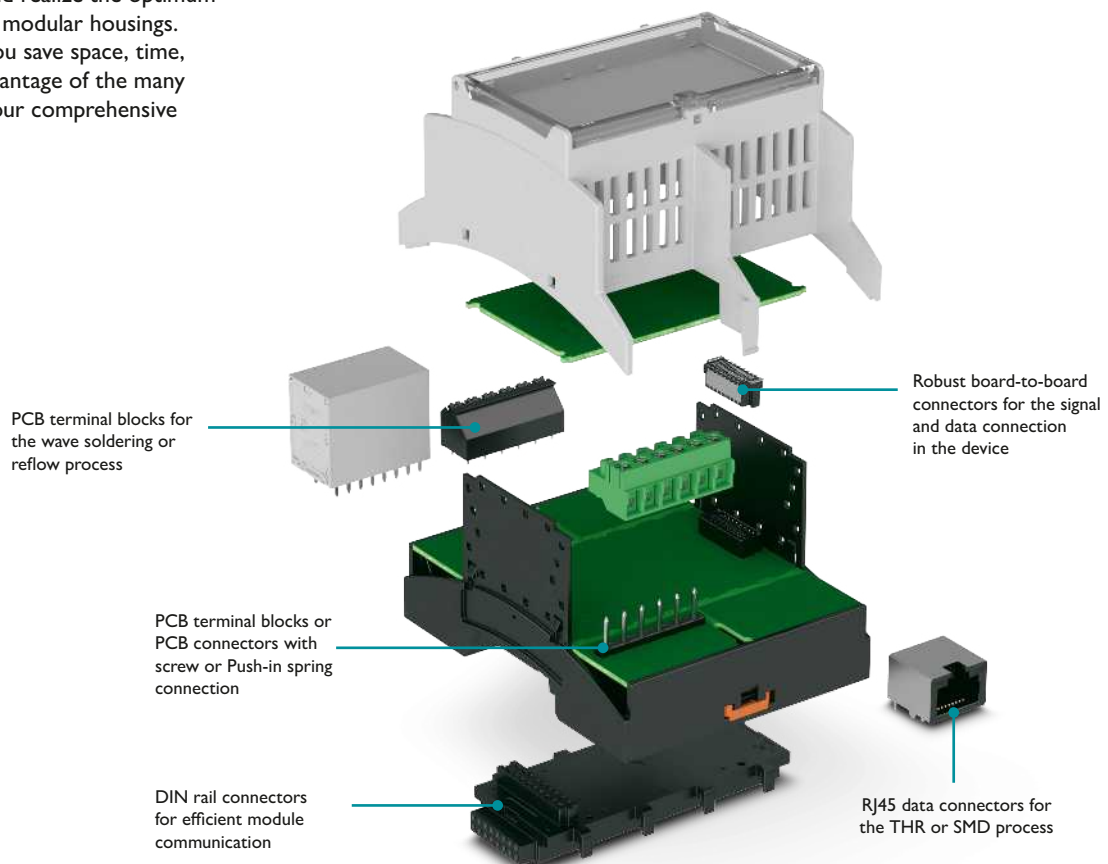
¹⁾ Based on flexible conductors, additional connection technology possible

BC/BC modular

													
Piece	53,6 U22	Piece	71,6 U11	Piece	71,6 U22	Piece	107,6 U11	Piece	107,6 U22	Piece	161,6 U11	Piece	161,6 U22
1	1914056	2	1913992	2	1913992	2	1914056	2	1914056	3	1914056	3	1914056
1	1984138	2	1984086	2	1984086	2	1984138	2	1984138	3	1984138	3	1984138
1	1755800	2	1755774	2	1755774	2	1755800	2	1755800	3	1755800	3	1755800
1	1848600	2	1848574	2	1848574	2	1848600	2	1848600	3	1848600	3	1848600
1	1149611			2	1149611			2	1149611			3	1149611
1	1149867			2	1149867			2	1149867			3	1149867
1	1149858							2	1149858			3	1149858

Modular BC housings: Support for future-oriented building automation

Protect your PCB and realize the optimum device solution with modular housings. At the same time, you save space, time, and money. Take advantage of the many options available in our comprehensive range.



UM extruded profile housings for individual PCB sizes

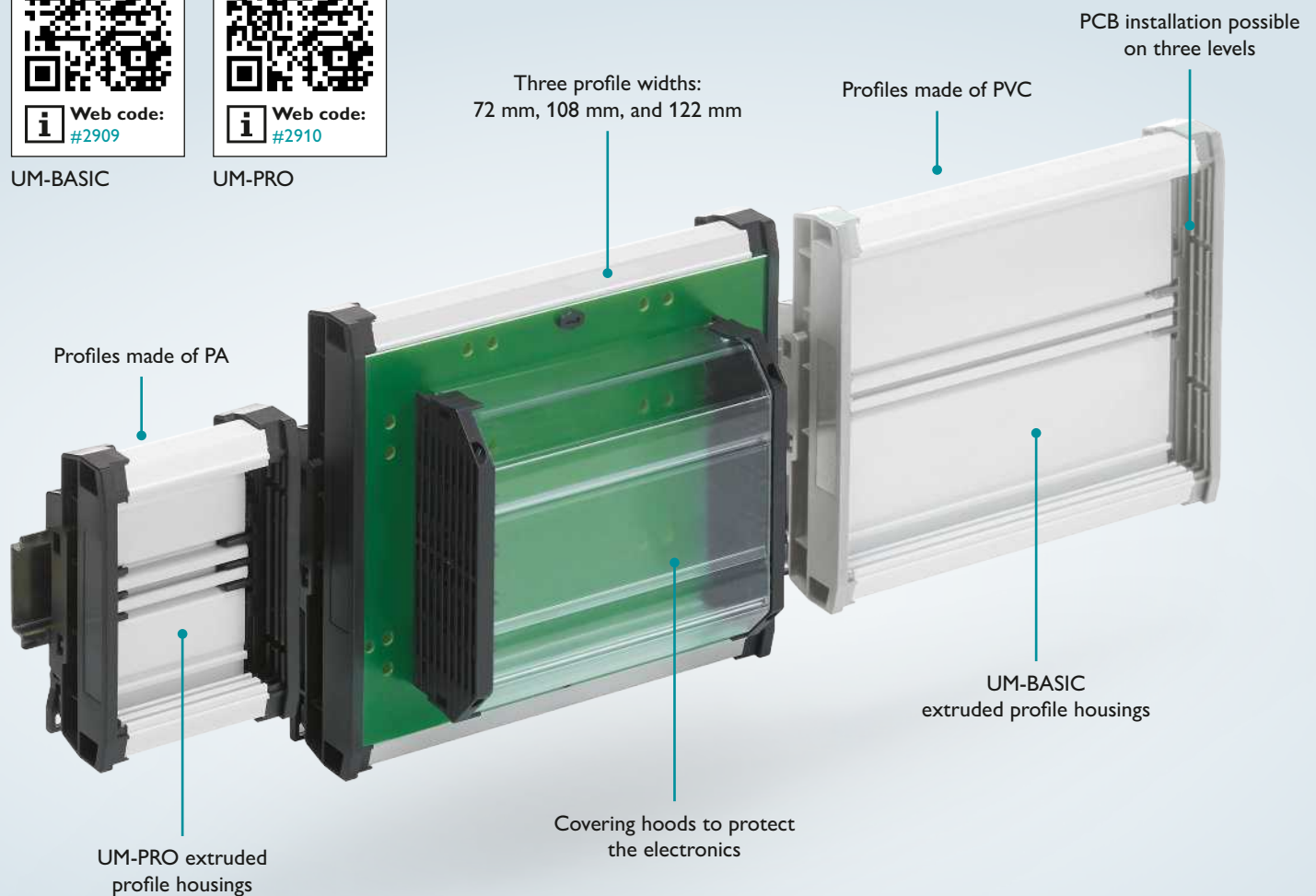
Extruded profile housings from the UM-BASIC and UM-PRO series allow installation dimensions to be customized and make assembly incredibly simple. The open design principle is ideal for flexible and large-scale device concepts.



UM-BASIC



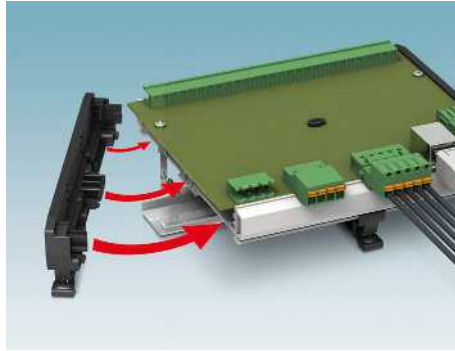
UM-PRO



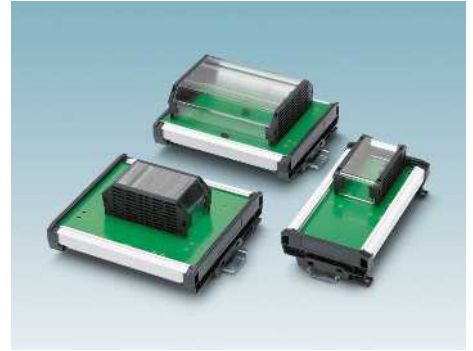
Your advantages



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



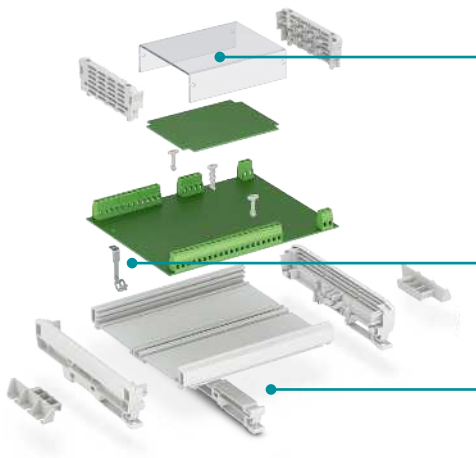
Easy device mounting with the snap-mount principle (the sides are fixed without the aid of tools)



High degree of flexibility with freely positionable covering hoods

Configure your product the way you want

UM-BASIC



2 Select the profile cover

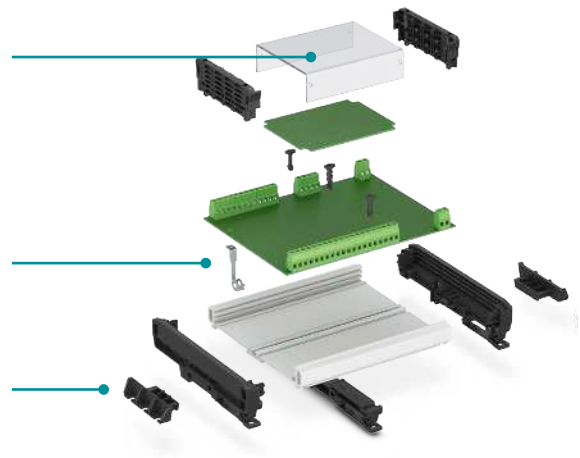
3 Search for accessories

1 Select the basic profile

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

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

UM-PRO



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

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

Go directly to the online configurator

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

i Web code: #0512

UM-BASIC series configuration overview

1 Basic profile, PVC insulation material, temperature range: -15°C to +50°C

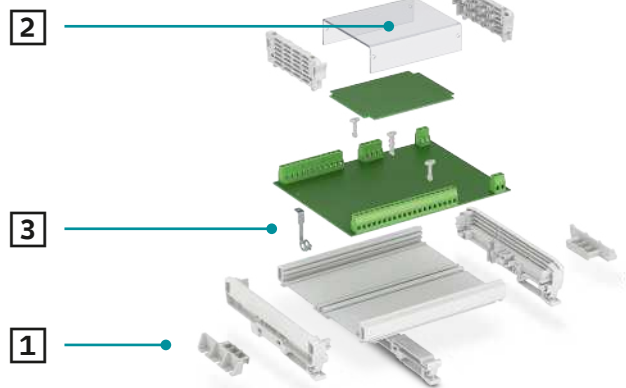
								
Description					Type	UM-BASIC profile Profile width (internal)		
Order key for UM-BASIC profiles								
	Item No.	Profile width	Length [cm] ¹⁾	Color		72 mm	108 mm	122 mm
Example:	2200149	/ UM-BASIC 72	/ 14.3	/ GY7035				
	PVC profile, customized profile length in accordance with order key, color: light gray				UM-BASIC PROFILE	2200149	2200149	2200149
	Side elements (left) with fastening foot for DIN rail NS 35, color: light gray				UM-BASIC / PRO ... COVER-L KMGY	2202018	2202021	2202045
	Side elements (right) with fastening foot for DIN rail NS 35, color: light gray				UM-BASIC / PRO ... COVER-R KMGY	2202019	2202022	2202046

2 Profile cover, PC insulating material

						
Order key for U-shaped profile covers						UM-BASIC profile Profile width (internal)
Example:	Item No.	Cover	Length [cm] ¹⁾			
	2202036	/ AU 73	/ 14.1			
	U profile cover, low version, 73 mm wide, color: transparent			UM-BASIC/PRO A/U N 73 CM	2202035	2202035
	U profile cover, high version, 73 mm wide, color: transparent			UM-BASIC/PRO A/U 73 CM	2202036	2202036
	U-shaped profile cover, 92 mm wide, color: transparent			UM-BASIC/PRO A/U 92 CM	2202037	2202037
	Side element for low U profile cover UM-BASIC/PRO A/ U N 73 CM, color: light gray			UM-BASIC/PRO LID-73N KMGY	2202034	2202034
	Side element for low U profile cover UM-BASIC/PRO A/ U 73 CM, color: light gray			UM-BASIC/PRO LID-73 KMGY	2202033	2202033
	Side element for low U profile cover UM-BASIC/PRO A/ U 92 CM, color: light gray			UM-BASIC/PRO LID-92 KMGY	2202047	2202047

Configure your product the way you want

UM-BASIC



¹⁾ In order to determine the profile length, 1.62 cm must be subtracted from the PCB length. The overall length of the module, including the side elements, is equal to the PCB length plus 0.4 cm. The maximum length of a profile cover is obtained by subtracting 1.9 cm from the PCB length.
Ordering example: For a PCB with dimensions of 16 cm x 10.75 cm x 0.15 cm, the profile length is 14.3 cm. Min./Max. Profile length = 3.0 cm/100.0 cm.

Go directly to the online configurator

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

i Web code: #0512

3 Accessories

PE contact metals, including mounting screw			UM-BASIC profile Profile width (internal)		
			72 mm	108 mm	122 mm
	Version for top PCB level	UM-BASIC/PRO PE CONTACT L1	2202025		
	Version for middle PCB level	UM-BASIC/PRO PE CONTACT L2	2202026		
	Version for bottom PCB level	UM-BASIC/PRO PE CONTACT L3	2202027		
Additional elements for securing the PCB			UM-BASIC profile Profile width (internal)		
			72 mm	108 mm	122 mm
	Version for top PCB, side, color: light gray	UM-BASIC/PRO PCB S-LOCK KMGY	2202031		
	Version for top PCB, center, color: light gray	UM-BASIC/PRO PCB C-LOCK L1 KMGY	2202028		
	Version for middle PCB, center, color: light gray	UM-BASIC/PRO PCB C-LOCK L2 KMGY	2202029		
	Version for bottom PCB, center, color: light gray	UM-BASIC/PRO PCB C-LOCK L3 KMGY	2202030		
	Mounting flange, for direct wall mounting, color: light gray	UM-BASIC/PRO MOUNT KMGY	2202032		
	Foot element for DIN rail for mounting under UM-BASIC PROFILE, color: light gray	UM-BASIC/PRO ... FOOT KMGY	2202020	2202023	2202024
	Bladed screwdriver	SZF 0-0,4X2,5	1204504		

UM-PRO series configuration overview

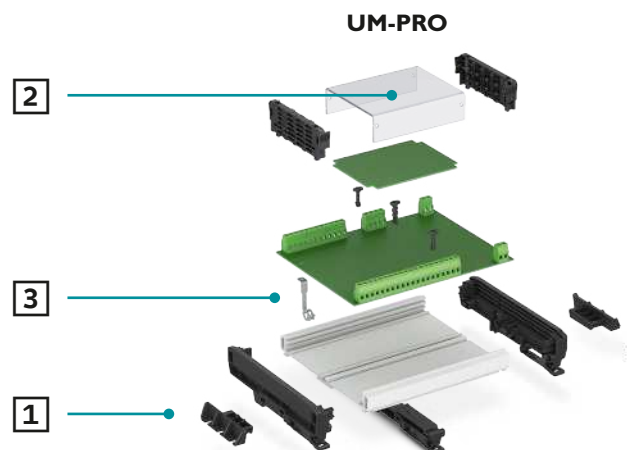
1 Basic profile, PA insulation material, temperature range: -40°C to +105°C

									
Description					Type		UM-PRO profile Profile width (internal)		
Order key for UM-PRO profiles							72 mm	108 mm	122 mm
Example:	Item No.	Profile width	Length [cm] ¹⁾	Color					
	220148	/ UM-PRO 72	/ 14.3	/ GY7035					
	Polyamide profile, customized profile length in accordance with order key, color: light gray				UM-PRO PROFILE		2200148	2200148	2200148
	Side elements (left) with fastening foot for DIN rail NS 35, color: black				UM-PRO ... COVER-L BK		2200151	2200155	2200158
	Side elements (right) with fastening foot for DIN rail NS 35, color: black				UM-PRO ... COVER-R BK		2200152	2200156	2200159

2 Profile cover

						
Order key for U-shaped profile covers						UM-PRO profile Profile width (internal)
Example:	Item No.	Cover	Length [cm] ¹⁾	72 mm	108 mm	122 mm
	2200311 /	AU 73 /	14.1			
	U profile cover, low version, 73 mm wide, color: transparent			UM-PRO A/U N 73 CM		
	U profile cover, high version, 73 mm wide, color: transparent			UM-PRO A/U 73 CM		
	U-shaped profile cover, 92 mm wide, color: transparent			UM-PRO A/U 92 CM		
	Side element for low U profile cover UM-PRO A/U N 73 CM, color: black			UM-PRO LID-73N BK		
	Side element for UM-PRO A/U 73 CM U-shaped profile cover, color: black			UM-PRO LID-73 BK		
	Side element for UM-PRO A/U N 92 CM U-shaped profile cover, color: black			UM-PRO LID-92 BK		

Configure your product the way you want



¹⁾ In order to determine the profile length, 1.62 cm must be subtracted from the PCB length. The overall length of the module, including the side elements, is equal to the PCB length plus 0.4 cm. The maximum length of a profile cover is obtained by subtracting 1.9 cm from the PCB length.
Ordering example: For a PCB with dimensions of 16 cm x 10.75 cm x 0.15 cm, the profile length is 14.3 cm. Min./Max. Profile length = 3.0 cm/100.0 cm.

Go directly to the online configurator

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

 Web code: #0512

3 Accessories

PE contact metals, including mounting screw			UM-PRO profile Profile width (internal)		
			72 mm	108 mm	122 mm
	Version for top PCB level	UM-PRO PE CONTACT L1	2200161		
	Version for middle PCB level	UM-PRO PE CONTACT L2	2200162		
	Version for bottom PCB level	UM-PRO PE CONTACT L3	2200163		
Additional elements for securing the PCB			UM-PRO profile Profile width (internal)		
			72 mm	108 mm	122 mm
	Version for top PCB, side, color: black	UM-PRO PCB S-LOCK BK	2200168		
	Version for top PCB, center, color: black	UM-PRO PCB C-LOCK L1 BK	2200164		
	Version for middle PCB, center, color: black	UM-PRO PCB C-LOCK L2 BK	2200165		
	Version for bottom PCB, center, color: black	UM-PRO PCB C-LOCK L3 BK	2200166		
	Mounting flange, for direct wall mounting, color: black	UM-PRO MOUNT BK	2200171		
	Foot element for DIN rail for mounting under UM-PRO PROFILE, color: black	UM-PRO ... FOOT BK	2200153	2200157	2200160
	Bladed screwdriver	SZF 0-0,4X2,5	1204504		

UM-BASIC and -PRO series configuration overview

PCB terminal blocks for conductor cross-sections up to 0.5 mm² (AWG 20)							
Push-in spring connection							
 Web code: #0706	Product family	Notes	No. of pos.	Pitch [mm]	Current [A]	Voltage ¹⁾ [V]	Connection direction
	PTSM 0,5/...-H-THR	Black, THR soldering	2 ... 8	2.5	6 IEC 5 UL (B)	160 IEC 150 UL (B)	0°
	PTSM 0,5/...-V-THR	Black, THR soldering	2 ... 8	2.5	6 IEC 5 UL (B)	160 IEC 150 UL (B)	90°

PCB terminal blocks for conductor cross-sections up to 1.5 mm² (AWG 16)							
Screw connection with tension sleeve							
 Web code: #0709	Product family	Notes	No. of pos.	Pitch [mm]	Current [A]	Voltage ¹⁾ [V]	Connection direction
	MKDS 1	-	2 ... 16	3.5/3.81	13.5 IEC 10 UL (B, D) ²⁾	200 IEC 300 UL (B, D) ²⁾	0°
	SMKDS 1	-	2 ... 12	3.5/3.81	10 IEC 10 UL (B, D) ²⁾	200 IEC 300 UL (B, D) ²⁾	35°
	MKDSN 1,5	Low-profile design	2-/3-pos., alignable	5.0/5.08	13.5 IEC 10 UL (B, D) ²⁾	400 IEC 300 UL (B, D) ²⁾	0°
	SMKDSN 1,5	Low-profile design	2 ... 16	5.0/5.08	13.5 IEC 10 UL (B, D) ²⁾	400 IEC 300 UL (B, D) ²⁾	45°
	MKKDSN 1,5	Low-profile design	2-/3-pos., alignable	5.0/5.08	13.5 IEC 10 UL (B, D) ²⁾	400 IEC 300 UL (B, D) ²⁾	0°
	MK3DSN 1,5	Low-profile design	2-/3-pos., alignable	5.08	10 IEC 10 UL (B, D) ²⁾	400 IEC 300 UL (B, D) ²⁾	0°

¹⁾ IEC rated insulation voltage at overvoltage category III/pollution degree 2

²⁾ Nominal current and nominal voltage in accordance with UL use group B or D

Push-in spring connection							
i Web code: #0710	Product family	Notes	No. of pos.	Pitch (mm)	Current (A)	Voltage ¹⁾ (V)	Connection direction
	SPT-THR 1,5/...-H	THR soldering, various pin lengths available	2 ... 12	3.5/3.81	13.5 IEC 10 UL (B, D) ²⁾	160 IEC 300 UL (B, D) ²⁾	0°
	SPT-THR 1,5/...-V	THR soldering, various pin lengths available	2 ... 12	3.5/3.81	13.5 IEC 10 UL (B, D) ²⁾	160 IEC 300 UL (B, D) ²⁾	90°
	SPTA-THR 1,5	THR soldering	2 ... 12	3.81	13.5 IEC 10 UL (B, D) ²⁾	160 IEC 300 UL (B, D) ²⁾	45°
	SPTAF 1/...-IL	Integrated release button	2 ... 16	3.5	16 IEC 8 UL (B, D) ²⁾	160 IEC 300 UL (B, D) ²⁾	45°
	SPT-THR 1,5/...-H	THR soldering, various pin lengths available	2 ... 12	5.0/5.08	13.5 IEC 10 UL (B, D) ²⁾	320 IEC 300 UL (B, D) ²⁾	0°
	SPT-THR 1,5/...-V	THR soldering, various pin lengths available	2 ... 12	5.0/5.08	13.5 IEC 10 UL (B, D) ²⁾	320 IEC 300 UL (B, D) ²⁾	90°
	SPTA-THR 1,5	THR soldering	2 ... 12	5.08	13.5 IEC 10 UL (B, D) ²⁾	320 IEC 300 UL (B, D) ²⁾	45°
	SPTAF 1/...-IL	Integrated release button	2 ... 16	5.0	16 IEC 8 UL (B, D) ²⁾	320 IEC 300 UL (B, D) ²⁾	45°

¹⁾ IEC rated insulation voltage at overvoltage category III/pollution degree 2

²⁾ Nominal current and nominal voltage in accordance with UL use group B or D

PCB terminal blocks for conductor cross-sections up to 2.5 mm² (AWG 14)

Screw connection with tension sleeve

 Web code: #0713	Product family	Notes	No. of pos.	Pitch [mm]	Current [A]	Voltage ¹⁾ [V]	Connection direction
	TDPT 2,5/...-SC	PCB terminal with identical contour also available with Push-in spring connection	2 ... 12	5.08	24 IEC 20 UL (B) ²⁾ 10 UL (D) ²⁾	400 IEC 300 UL (B) ²⁾ 300 UL (D) ²⁾	0°

Push-in spring connection

 Web code: #0715	Product family	Notes	No. of pos.	Pitch [mm]	Current [A]	Voltage ¹⁾ [V]	Connection direction
	TDPT 2,5/...-SP	PCB terminal with identical contour also available with screw connection	2 ... 12	5.08	24 IEC 20 UL (B) ²⁾ 10 UL (D) ²⁾	400 IEC 300 UL (B) ²⁾ 300 UL (D) ²⁾	0°
new		THR soldering	2 ... 12	5.0	24 IEC 20 UL (B) ²⁾ 10 UL (D) ²⁾	400 IEC 300 UL (B) ²⁾ 300 UL (D) ²⁾	0°
new		THR soldering	2 ... 12	5.0	24 IEC 20 UL (B) ²⁾ 10 UL (D) ²⁾	400 IEC 300 UL (B) ²⁾ 300 UL (D) ²⁾	90°

Lever Push-in connection

 Web code: #2660	Product family	Notes	No. of pos.	Pitch [mm]	Current [A]	Voltage ¹⁾ [V]	Connection direction
new							
	LPT 2,5	-	2 ... 12	5.0	24 IEC 20 UL (B) ²⁾ 10 UL (D) ²⁾	400 IEC 300 UL (B) ²⁾ 300 UL (D) ²⁾	0°
new							
	LPTA 2,5	-	2 ... 12	5.0	24 IEC 20 UL (B) ²⁾ 10 UL (D) ²⁾	400 IEC 300 UL (B) ²⁾ 300 UL (D) ²⁾	45°

¹⁾ IEC rated insulation voltage at overvoltage category III/pollution degree 2

²⁾ Nominal current and nominal voltage in accordance with UL use group B or D

PCB connectors for conductor cross-sections up to 0.5 mm² (AWG 20)

Double-row connectors: Push-in spring connection, female

i Web code: #1171	Product family	Notes	No. of pos.	Pitch [mm]	Current [A]	Voltage ¹⁾ [V]	Connection direction
	DFMC 0,5/...-ST DFMC 0,5/...-ST-RF	Without flange, with latching flange, double-row, gold-plated contact system	2 ... 16	2.54	6 IEC 6 UL (B) ²⁾	160 IEC 150 UL (B) ²⁾	0°

Double-row headers: THR soldering, male

i Web code: #1172	Product family	Notes	No. of pos.	Pitch [mm]	Current [A]	Voltage ¹⁾ [V]	Connection direction
	DMC 0,5/ ...-G1-THR	Double-row, gold-plated contact system, lateral THR armature, integrated THR armature	2 ... 3 4 ... 16	2.54	6 IEC 6 UL (B) ²⁾	160 IEC 150 UL (B) ²⁾	0°
	DMCV 0,5/ ...-G1-THR	Double-row, gold-plated contact system, lateral THR armature, integrated THR armature	2 ... 3 4 ... 16	2.54	6 IEC 6 UL (B) ²⁾	160 IEC 150 UL (B) ²⁾	90°

PCB connectors for conductor cross-sections up to 1.5 mm² (AWG 16)

Double-row connectors: Push-in spring connection, SKEDD direct-connection technology

i Web code: #1206	Product family	Notes	No. of pos.	Pitch [mm]	Current [A]	Voltage ¹⁾ [V]	Connection direction
	SDDC 1,5/...-PV-3,5	With body-bound rivets for latching on the PCB	2 ... 16	3.5	8 IEC 8 UL (B, D) ²⁾	160 IEC 300 UL (B, D) ²⁾	90°

Connectors: Push-in spring connection, female

i Web code: #0756	Product family	Notes	No. of pos.	Pitch [mm]	Current [A]	Voltage ¹⁾ [V]	Connection direction
	FMC 1,5/...-ST FMC 1,5/...-STF FMC 1,5/...-ST-RF	Without flange With screw flange With latching flange	2 ... 20	3.5/3.81	8 IEC 8 UL (B) ²⁾	160 IEC 150 UL (B) ²⁾	0°

¹⁾ IEC rated insulation voltage at overvoltage category III/pollution degree 2

²⁾ Nominal current and nominal voltage in accordance with UL use group B or D

Connectors: Lever Push-in connection, female							
 Web code: #2663	Product family	Notes	No. of pos.	Pitch [mm]	Current [A]	Voltage ¹⁾ [V]	Connection direction
new 	LPC 1,5/...-ST LPC 1,5/...-STF LPC 1,5/...-ST-LR	Without flange With screw flange With LR lever	2 ... 16	3.81	8 IEC 8 UL (B, C) ²⁾	160 IEC 150 UL (B, C) ²⁾	0°
Headers: THR soldering, male							
 Web code: #0760	Product family	Notes	No. of pos.	Pitch [mm]	Current [A]	Voltage ¹⁾ [V]	Connection direction
	MC 1,5/...-G-THR MC 1,5/...-GF-THR	Without flange With threaded flange	2 ... 20	3.5/3.81	8 IEC 8 UL (B, D) ²⁾	160 IEC 300 UL (B, D) ²⁾	0°
	MCV 1,5/...-G-THR MCV 1,5/...-GF-THR	Without flange With threaded flange	2 ... 20	3.5/3.81	8 IEC 8 UL (B, D) ²⁾	160 IEC 300 UL (B, D) ²⁾	90°
Headers: Wave soldering, male							
 Web code: #0762	Product family	Notes	No. of pos.	Pitch [mm]	Current [A]	Voltage ¹⁾ [V]	Connection direction
	MC 1,5/...-G MC 1,5/...-GF MC 1,5/...-G-RN MC 1,5/...-GF-LR	Without flange With threaded flange With snap-in latch With lock and release latching	2 ... 20	3.5/3.81 3.5/3.81 3.5 3.5/3.81	8 IEC 8 UL (B, D) ²⁾	160 IEC 300 UL (B, D) ²⁾	0°
	MCV 1,5/...-G MCV 1,5/...-GF MCV 1,5/...-G-RN MCV 1,5/...-GF-LR	Without flange With threaded flange With snap-in latch With lock and release latching	2 ... 20	3.5/3.81 3.5/3.81 3.5 3.5/3.81	8 IEC 8 UL (B, D) ²⁾	160 IEC 300 UL (B, D) ²⁾	90°

PCB connectors for conductor cross-sections up to 2.5 mm ² (AWG 14)							
Connectors: Push-in spring connection, SKEDD direct-connection technology							
 Web code: #0786	Product family	Notes	No. of pos.	Pitch [mm]	Current [A]	Voltage ¹⁾ [V]	Connection direction
	SDC 2,5/...-PV-5,0-ZB	With body-bound rivets for latching on the PCB	1 ... 16	5.0	12 IEC 12 UL (B, D) ²⁾	320 IEC 300 UL (B, D) ²⁾	90°
Connectors: Screw connection with tension sleeve, female							
 Web code: #0776	Product family	Notes	No. of pos.	Pitch [mm]	Current [A]	Voltage ¹⁾ [V]	Connection direction
	MSTB 2,5/...-ST MSTB 2,5/...-STF MSTB 2,5/...-ST-LR	Without flange With screw flange With lock and release latching	2 ... 24 2 ... 20 2 ... 20	5.0/5.08	12 IEC 15 UL (B) ²⁾ 10 UL (D) ²⁾	320 IEC 300 UL (B) ²⁾ 300 UL (D) ²⁾	0°

¹⁾ IIEC rated insulation voltage at overvoltage category III/pollution degree 2

²⁾ INominal current and nominal voltage in accordance with UL use group B, C, or D

Connectors: Push-in spring connection, female

i Web code: #0779	Product family	Notes	No. of pos.	Pitch [mm]	Current [A]	Voltage ¹⁾ [V]	Connection direction
	FKC 2,5/...-ST FKC 2,5/...-STF FKC 2,5/...-ST-RF FKC 2,5/...-ST-LR	Without flange With screw flange With latching flange With lock and release latching	2 ... 24 2 ... 24 2 ... 16 2 ... 20	5.0/5.08 5.0/5.08 5.0/5.08 5.08	12 IEC 10 UL (B, D) ²⁾	320 IEC 300 UL (B, D) ²⁾	0°

Connectors: Lever Push-in connection, female

i Web code: #2664	Product family	Notes	No. of pos.	Pitch [mm]	Current [A]	Voltage ¹⁾ [V]	Connection direction
	LPC 2,5/...-ST LPC 2,5/...-STF LPC 2,5/...-ST-LR	Without flange With screw flange With lock and release latching	2 ... 20	5.08	16 IEC 16 UL (B, C) ²⁾	320 IEC 300 UL (B, C) ²⁾	0°

Headers: THR soldering, male

i Web code: #0789	Product family	Notes	No. of pos.	Pitch [mm]	Current [A]	Voltage ¹⁾ [V]	Connection direction
new 	CCA 2,5/...-G CC 2,5/...-GF CCA 2,5/...-G-RN CC 2,5/...-GF-LR	Without flange With threaded flange With snap-in latch With lock and release latching	2 ... 24 2 ... 12 2 ... 12 2 ... 24	5.0/5.08 5.08 5.08 5.0/5.08	12 IEC 16 UL (B) ²⁾ 10 UL (D) ²⁾	320 IEC 300 UL (B) ²⁾ 300 UL (D) ²⁾	0°
	CCVA 2,5/...-G CCV 2,5/...-GF CCVA 2,5/...-G-RN CCV 2,5/...-GF-LR	Without flange With threaded flange With snap-in latch With lock and release latching	2 ... 24 2 ... 12 2 ... 12 2 ... 24	5.0/5.08 5.08 5.08 5.0/5.08	12 IEC 16 UL (B) ²⁾ 10 UL (D) ²⁾	320 IEC 300 UL (B) ²⁾ 300 UL (D) ²⁾	90°

Headers: Wave soldering, male

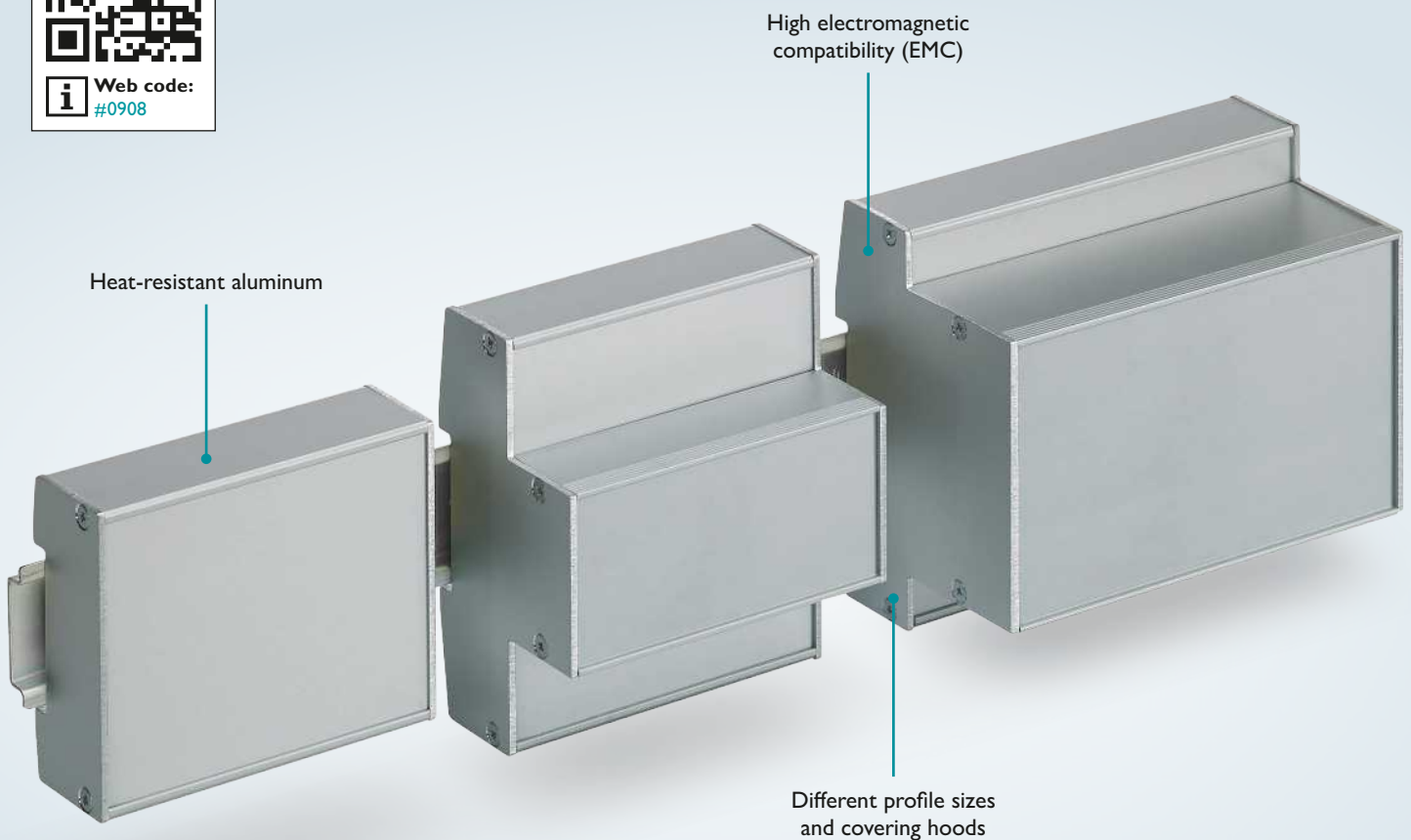
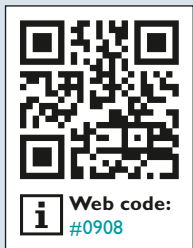
i Web code: #0790	Product family	Notes	No. of pos.	Pitch [mm]	Current [A]	Voltage ¹⁾ [V]	Connection direction
	MSTBA 2,5/...-G MSTB 2,5/...-GF MSTBA 2,5/...-G-RN MSTBA 2,5/...-G-LR	Without flange With threaded flange With snap-in latch With lock and release latching	2 ... 24 2 ... 24 2 ... 20 2 ... 20	5.0/5.08 5.0/5.08 5.0/5.08 5.08	12 IEC 15 UL (B) ²⁾ 10 UL (D) ²⁾	320 IEC 300 UL (B) ²⁾ 300 UL (D) ²⁾	0°
	MSTBVA 2,5/...-G MSTBV 2,5/...-GF MSTBVA 2,5/...-G-RN MSTBVA 2,5/...-G-LR	Without flange With threaded flange With snap-in latch With lock and release latching	2 ... 24 2 ... 24 2 ... 20 2 ... 20	5.0/5.08 5.0/5.08 5.0/5.08 5.08	12 IEC 12 UL (B) ²⁾ 10 UL (D) ²⁾	320 IEC 300 UL (B) ²⁾ 300 UL (D) ²⁾	90°

¹⁾ IEC rated insulation voltage at overvoltage category III/pollution degree 2

²⁾ Nominal current and nominal voltage in accordance with UL use group B, C, or D

UM-ALU extruded profile housings for EMC-sensitive electronics

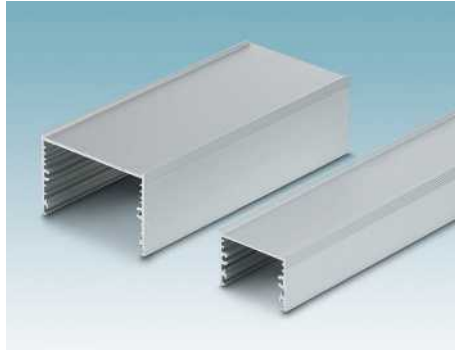
Made entirely of aluminum, the UM-ALU housing system offers a high degree of electromagnetic compatibility (EMC) and ensures full flexibility in the assembly process. The housings are therefore particularly suitable for industrial environments with high electromagnetic interference potential.



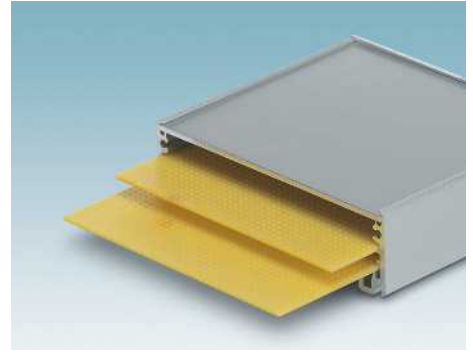
Your advantages



Heat-resistant aluminum for optimum protection of sensitive electronics

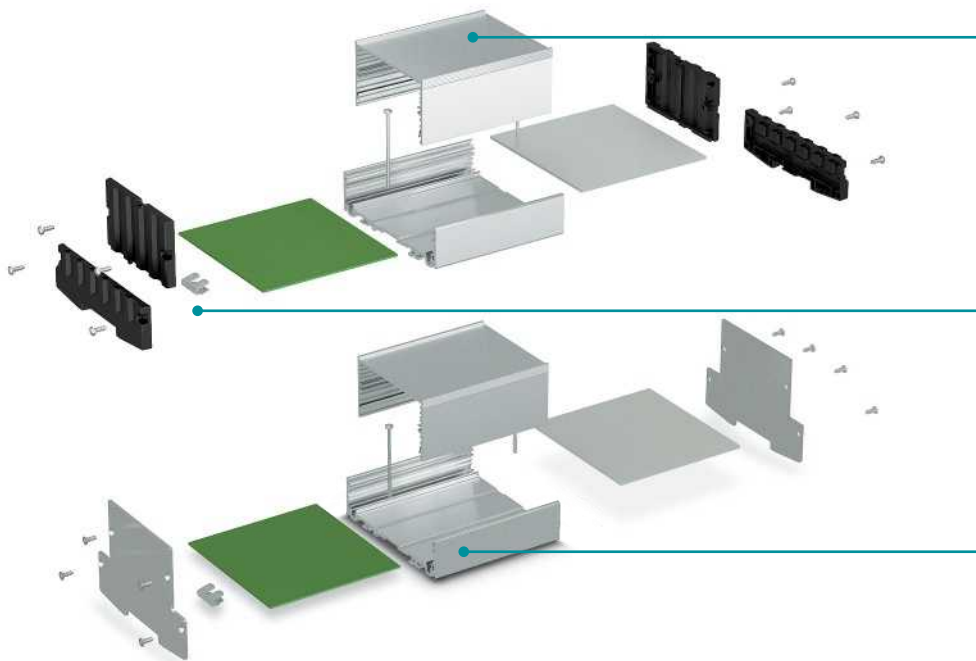


Different profile sizes and covering hoods for electronics modules suited to the application



PCB installation on up to seven levels for flexible electronics solutions

Configure your product the way you want



2 Specify the profile cover

3 Search for accessories

1 Select the basic profile and side plates

Go directly to the online configurator

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

i Web code: #0512

Housing color options (based on RAL color system):

■ 9006

Other colors are available on request.

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

UM-ALU series configuration overview

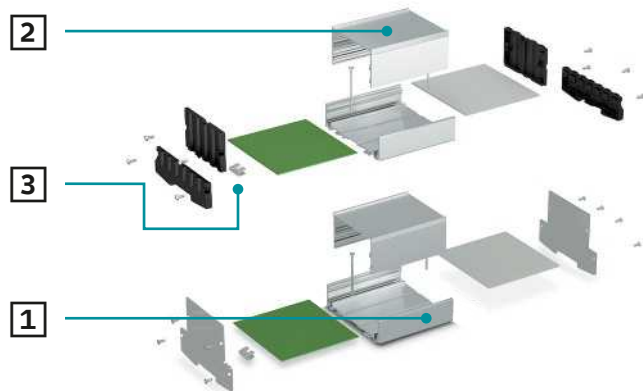
1 One-piece basic profile, anodized aluminum

			
Description	Type	Profile width (internal)	
		72 mm	100.5 mm
Length 42.5 mm	UM-ALU 4- ... PROFILE 42,5	2200917	2200935
Length 60 mm	UM-ALU 4- ... PROFILE 60	2200918	2200936
Length 95 mm	UM-ALU 4- ... PROFILE 95	2200919	2200937
Length 130 mm	UM-ALU 4- ... PROFILE 130	2200920	2200938
Length 165 mm	UM-ALU 4- ... PROFILE 165	2200921	2200939
Length 200 mm	UM-ALU 4- ... PROFILE 200	2200922	2200940
Length 235 mm	UM-ALU 4- ... PROFILE 235	2200923	2200941
Length 990 mm	UM-ALU 4- ... PROFILE 990	2200924	2200942

1 Side elements for screwing to the basic profile

2 side elements right and left, incl. snap-on foot, anodized aluminum	UM-ALU 4- ... COVER AL	2200933	2200951
2 side elements right and left, incl. snap-on foot, anodized aluminum, for 45 mm profile cover	UM-ALU 4- ... COVERLID 45 AL	2201758	2201759
2 side elements right and left, incl. snap-on foot, anodized aluminum, for 75 mm profile cover	UM-ALU 4- ... COVERLID 75 AL	2202085	2201760
2 side elements right and left, incl. snap-on foot, black polyamide	UM-ALU 4- ... COVER PA BK	2200934	2200952

Configure your product the way you want



Go directly to the online configurator

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

i Web code: #0512

2 Profile cover

Profile covers, anodized aluminum (both profile covers can be used with either UM-ALU 72 or UM-ALU 100,5)



Description	Type	Width 45 mm	Width 75 mm
Length 42.5 mm	UM-ALU 4 AU L42,5	2200954	2200963
Length 60 mm	UM-ALU 4 AU L60	2200955	2200964
Length 95 mm	UM-ALU 4 AU L95	2200956	2200965
Length 130 mm	UM-ALU 4 AU L130	2200957	2200966
Length 165 mm	UM-ALU 4 AU L165	2200958	2200967
Length 200 mm	UM-ALU 4 AU L200	2200959	2200968
Length 235 mm	UM-ALU 4 AU L235	2200960	2200969
Length 990 mm	UM-ALU 4 AU L990	2200961	2200970

Side elements including screws for profile cover, black polyamide



Description	Type	Width 45 mm	Width 75 mm
2 side elements right and left for profile cover, black polyamide	UM-ALU 4 LID ... PA BK	2200971	2200972

Basic profile front plate, anodized aluminum, for use directly in the basic profile with the UM-ALU 4- ... COVER ... side elements



Description	Type	Width 72 mm	Width 100.5 mm
Length 42.5 mm	UM-ALU 4- ... FRONT 42,5 AP ¹⁾ UM-ALU 4- ... FRONT 42,5	2202086 2200925	2202094 2200943
Length 60 mm	UM-ALU 4- ... FRONT 60 AP ¹⁾ UM-ALU 4- ... FRONT 60	2202087 2200926	2202095 2200944
Length 95 mm	UM-ALU 4- ... FRONT 95 AP ¹⁾ UM-ALU 4- ... FRONT 95	2202088 2200927	2202096 2200945
Length 130 mm	UM-ALU 4- ... FRONT 130 AP ¹⁾ UM-ALU 4- ... FRONT 130	2202089 2200928	2202098 2200946
Length 165 mm	UM-ALU 4- ... FRONT 165 AP ¹⁾ UM-ALU 4- ... FRONT 165	2202090 2200929	2202099 2200947
Length 200 mm	UM-ALU 4- ... FRONT 200 AP ¹⁾ UM-ALU 4- ... FRONT 200	2202091 2200930	2202100 2200948
Length 235 mm	UM-ALU 4- ... FRONT 235 AP ¹⁾ UM-ALU 4- ... FRONT 235	2202092 2200931	2202101 2200949
Length 990 mm	UM-ALU 4- ... FRONT 990 AP ¹⁾ UM-ALU 4- ... FRONT 990	2202093 2200932	2202102 2200950

3 Accessories



Snap-on foot for DIN rail, including screw (optional for long profiles)

UM-ALU 4 FOOT

2200974

2200974



Grounding clamp for integrating the basic profile in accordance with DIN 46244

UM-ALU 4 PE CONTACT

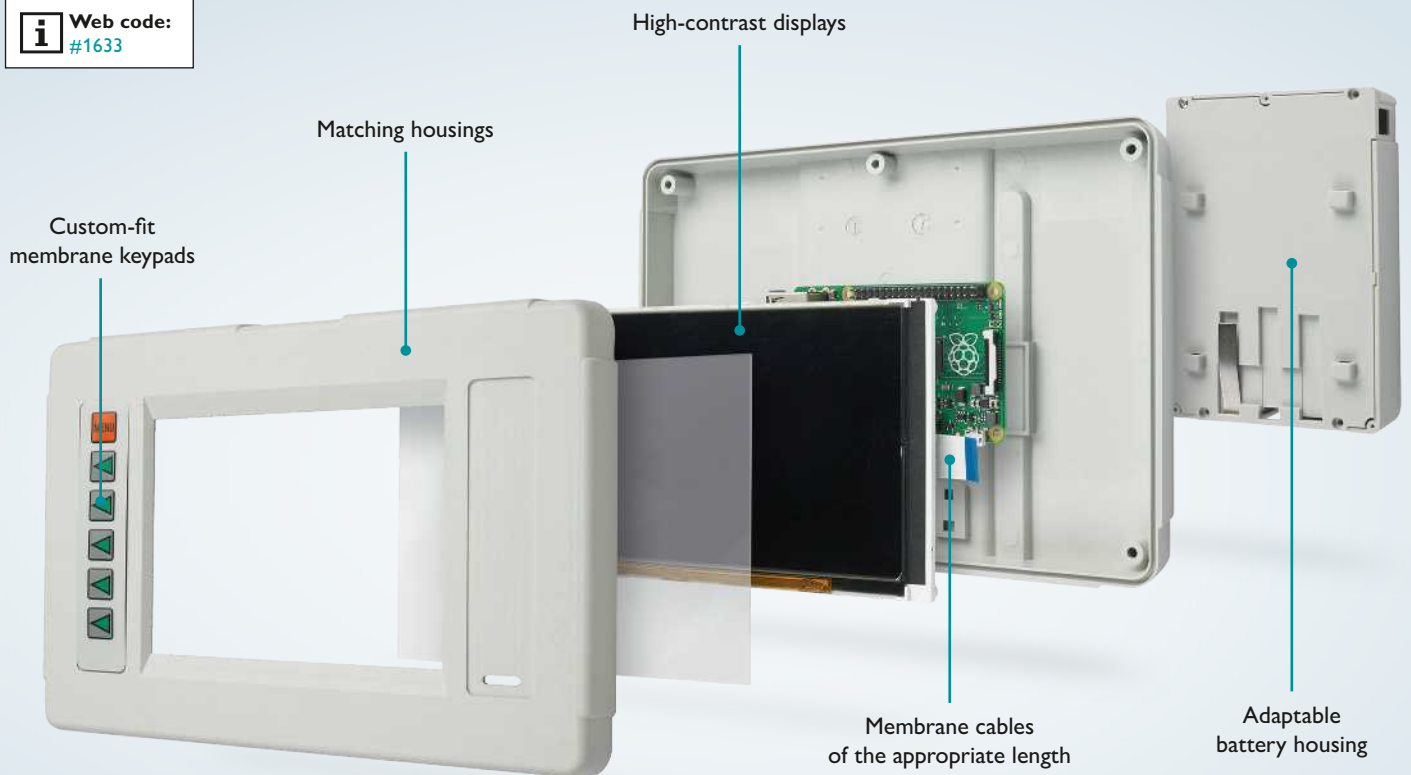
2200973

2200973

¹⁾ Basic profile front plate with the ending AP for use with UM-ALU 4- ... COVER AL side elements.

Overview of 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.



HMI components and accessories for electronics housings



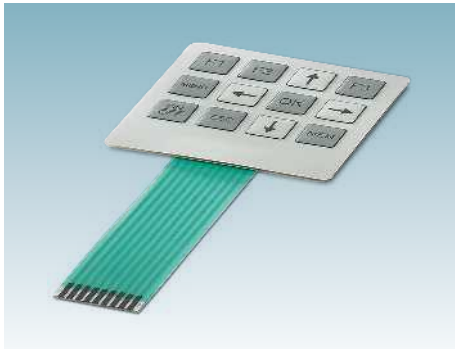
High-contrast TFT displays with additional mounting material for installation in electronics housings



Display carriers in different color options for tool-free installation in the ME, ME MAX, and ME-IO housing families



Capacitive touch displays for installation in electronics housings



Membrane keypads for the ICS, BC, DCS, HCS, HC-ALU, and UM-ALU housing families: Custom design, can be configured digitally



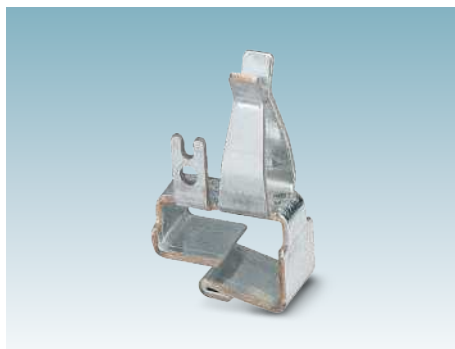
Light guides in horizontal and vertical format for round or rectangular status and diagnostic indicators



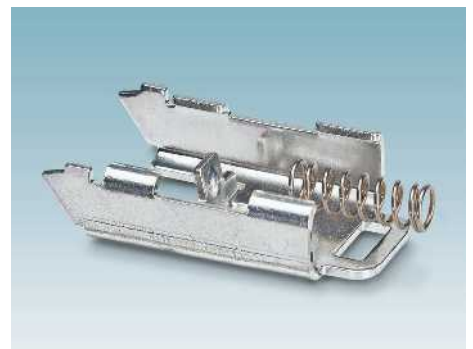
Swivel wall and profile brackets for all monitors with standardized VESA interfaces



UTA DIN rail adapters for universal device mounting



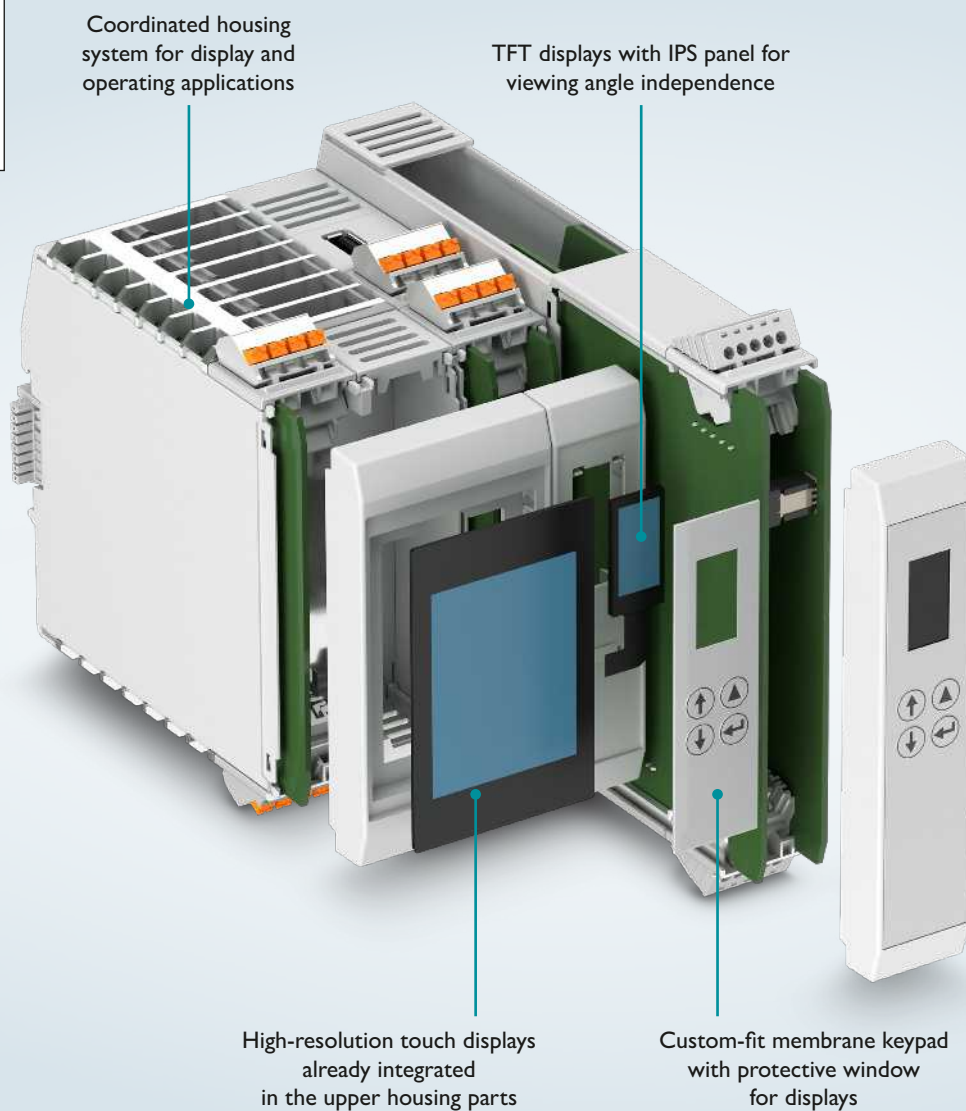
Functional ground contact for safe contacting of the PCB on the DIN rail



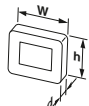
Metal and plastic base latches

Displays for electronics housing

The question of visualization and operation of processes and characteristic values plays an increasingly important role in industrial automation. Either with fast operation via touch displays or with a combination of high-resolution displays with membrane keyboards.



Displays for electronics housing

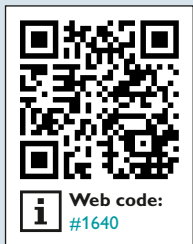
Displays							 Web code: #1639		
									
Item No.		2203537 ¹⁾	2203543	2203547	2203549	2203551	2203553	1132710	1215685
Color		Light gray (RAL 7035)							Without ICS cover on request
Type		DFC T 2,4 QVGA S 7035	D L 2,8 64X 8	D L 4,6 128X P	D L 5,7 QVGA P	D T 7,0 WVGA P	D T 15,0 XGA L	DCT T 2,4 QVGA S RTOUCH	ICS25- C122X12- DKP-7035
Diagonal		2.4"	2.8"	4.6"	5.7"	7.0"	15.0"	2.4"	0.96"
Resolution		320 x 240	128 x 64	128 x 128	320 x 240	800 x 480	1024 x 768	320 x 240	160 x 80
Technology		TFT	LCD FSTN transflective	LCD FSTN transflective	LCD FSTN transmissive	TFT	TFT	TFT, resistive touch	TFT, IPS panel
Interface		SPI	8-bit	Parallel	Parallel	Parallel	LVDS 6-bit	SPI	SPI
Recommended housing use		ME-IO 75,2, ME 67,5 OT, ME 90 OT, ME MAX 90	HCS-T MINI, HCS-C MINI-P, HCS-C MEDIUM, HCS-C MAXI, HCS-T MEDIUM	HCS-T MAXI	DCS 5,7	DCS 7,0	DCS 15,0	ICS50, ME-IO 56,2, UCS	ICS25
Temperature range for operation [°C]		-20 ... +70	-20 ... +70	-20 ... +70	-20 ... +70	-20 ... +70	-20 ... +70	-20 ... +70	-20 ... +70
 Mounting plate dimensions	Width/ w [mm]	71.5	70.2	88.2	143	164.9	326.5	74.4	13.5
	Depth/ d [mm]	7.8	5.2	4.8	8.8	5.7	11.8	7	1.5
	Height/ h [mm]	59.2	49	79	103	100	253.5	47.4	27.95
Brightness [cd/m²]		220	450	120	200	300	450	180	400

¹⁾ Item available with other frame colors: 2203539, blue (RAL 5015) and 2203538, yellow (RAL 1018)

Membrane keypads for electronics housings

“Intelligent” devices need reliable input systems. In many areas of industrial production, but also in machine building and in logistics, many membrane keypads are used.

A membrane keypad always consists of a combination of multiple layers – with extensive options for customization.



Membrane keypads for electronics housings

Membrane keypads										 Web code: #1640	
											
Item No.		2203566	2203567	2203568	2203569	2203570	2203571	2203572	2203574	1215683	1215684
Type		KP HCS C-MIN-P K12 C3 P9	KP HCS T-MIC K12 C3 P9	KP HCS C-MED K16 C3 P8	KP HCS T-MIN K21 C3 P14	KP HCS T-MED K28 C4 P13	KP HCS T-MAX K45 C4 P16	KP DCS 4,8-6,4 K6 C4 P7	KP HC-ALU 100 K4 C4 P6	KP IC-S25X100 K4 C3 P5	KP IC-S25X122 K4 C3 P5
Number of keys / colors		12 keys, 3 colors	12 keys, 3 colors	16 keys, 3 colors	21 keys, 3 colors, LCD cutout 128 x 64	28 keys, 4 colors	45 keys, 4 colors	6 keys, 4 colors	4 keys, 4 colors	4 keys, 3 colors, 1" TFT cutout	4 keys, 3 colors, 1" TFT cutout
Dimensions	Width [mm]	70.4	37.6	72.6	78/55	63.5	144	22.6	95	22.2	22.2
	Height [mm]	69.2	139.6	79.6	173	115.8	78	103.4	72	80.7	103.2
Pitch of membrane cable [mm]		Socket 2.54	Socket 2.54	Socket 2.54	Socket 2.54	Socket 2.54	Socket 2.54	1.0	1.0	1.0	1.0
Length of membrane cable [mm]		100.5	88.5	62	59	124	77	50	47.3	13.1	13.1
Recommended housing use		HCS-C MINI-P	HCS-T MICRO	HCS-C MEDIUM	HCS-T MINI	HCS-T MEDIUM	HCS-C MAXI, HCS-T MAXI	DCS 5,7	UM-ALU, HC-ALU	ICS25X100	ICS25X122
Connection		9-pos.	9-pos.	8-pos.	14-pos.	13-pos.	16-pos.	7-pos.	6-pos.	5-pos.	5-pos.

Configurator for the ICS and HCS series membrane keypads

Configure your custom membrane keypad for your unique design with the modular ICS and HCS housing systems

1. Assemble your housing online to fit your application with our electronics housing configurator (web code: #0512)
2. Select the ICS25 housing or the HCS housing

3. Configure shapes, colors, and markings for the keys on your membrane keypad
4. If needed, take advantage of our Phoenix Contact individual consultation service for configuring



Accessories for electronics housings

UTA DIN rail adapters							i Web code: #1637	
								
Type	UTA 89	UTA 107	UTA 130	UTA 136	UTA 159	UTA 184		
Item No.	2853970	2853983	2706412	2853996	2854018	2854021		
Pcs./Pkt.	5	5	5	5	5	5		
Width	52 mm	52 mm	52 mm	52 mm	52 mm	52 mm		
Height	89 mm	107 mm	130 mm	136 mm	159 mm	184 mm		
Material	Z 410 die-cast zinc, blue chromate							

Base latches										 Web code: #2081
										
Type		UM-ALU 4 FOOT	ME MF 17,5	ME-IO 18,8 FOOT CATCH KIT	ME MF 12,5	BASE LATCH 14,4 L30 SPERR OG	EH SNAP-LOCK SET WALL MOUNT OG	ICS-FOOT CATCH-H77 KIT	ICS-FOOT CATCH-H100 KIT	ICS-FOOT CATCH-H122 KIT
Item No.		2200974	2908281	2201812	2707466	2896998	2202007	1143118	1143120	1143121
Housing use		UM-ALU ...	ME ... UT (≥17,5) ME MAX ... (≥17,5)	ME-IO ... B	ME 12,5 UT ME MAX 12,5	BC ... UT	EH ... B	ICS of height 77 mm	ICS of height 100 mm	ICS of height 122 mm
Material		Polyamide	Steel with tin coating	Steel with tin coating	Steel with tin coating	Polyoxy-methylene	Polyoxy-methylene	Steel with tin coating	Steel with tin coating	Steel with tin coating
Dimensions	Width [mm]	33.4	17.5	17.5	12.5	14.4	28.8	14.7	14.7	14.7
	Height [mm]	20.2	30	35.5	30	29.8	18.7	22.26	33.51	44.76
	Depth [mm]	7.9	6.5	6.5	6.5	5.9	4.15	6.5	6.5	6.5
Pcs./Pkt.		5	50	100	50	20	50	50	50	50

Light guides

i Web code: #1638

Series	Item No.	Type	Indicator size	Number of indicators	Pitch	Recommended housing use
	2202311	HS LC-V-D3/R2xC1-5,08	ø 3 mm	2 (2 rows x 1 column)	5.08 mm	BC 35,6 ... BC 161,6
	2202312	HS LC-V-D3/R3xC1-5,08	ø 3 mm	3 (3 rows x 1 column)	5.08 mm	BC 35,6 ... BC 161,6
	2202313	HS LC-H-D3/R1xC1	ø 3 mm	1 (1 row x 1 column)		EH, ME, ME MAX, ME-IO, ME-PLC, BC 17,8, ICS
	2202314	HS LC-H-5x2/R1xC1	5 x 2 mm	1 (1 row x 1 column)		EH, ME, ME MAX, ME-IO, ME-PLC, BC 17,8, ICS
	2202315	HS LC-H-D3/R2xC1-5,08	ø 3 mm	2 (2 rows x 1 column)	2.54 mm	EH, ME, ME MAX, ME-IO, ME-PLC, BC 17,8, ICS
	1036658	HS LC-H-D2C/R2xC1-2,54 ¹⁾	ø 2 mm	2 (2 rows x 1 column)	2.54 mm	EH, ME, ME MAX, ME-IO, ME-PLC, BC 17,8, ICS
	1043044	HS LC-H-D2C/R2XC2-2,54 ¹⁾	ø 2 mm	4 (2 rows x 2 columns)	2.54 mm	EH, ME, ME MAX, ME-IO, ME-PLC, BC 17,8, ICS
	1071310	HS LC-H-D2C/R2XC5-2,54 ¹⁾	ø 2 mm	10 (2 rows x 5 columns)	2.54 mm	EH, ME, ME MAX, ME-IO, ME-PLC, BC 17,8, ICS
	1071314	HS LC-H-D2C/R2XC10-2,54 ¹⁾	ø 2 mm	20 (2 rows x 10 columns)	2.54 mm	EH, ME, ME MAX, ME-IO, ME-PLC, BC 17,8, ICS
	1071316	HS LC-H-D2C/R4XC2-2,54 ¹⁾	ø 2 mm	8 (4 rows x 2 columns)	2.54 mm	EH, ME, ME MAX, ME-IO, ME-PLC, ICS, UCS
	1071318	HS LC-H-D2C/R4XC5-2,54 ¹⁾	ø 2 mm	20 (4 rows x 5 columns)	2.54 mm	EH, ME, ME MAX, ME-IO, ME-PLC, ICS
	1071321	HS LC-H-D2C/R4XC9-2,54 ¹⁾	ø 2 mm	36 (4 rows x 9 columns)	2.54 mm	EH, ME, ME MAX, ME-IO, ME-PLC, ICS
	1071329	HS LC-H-D2C/R4XC10-2,54 ¹⁾	ø 2 mm	40 (4 rows x 10 columns)	2.54 mm	EH, ME, ME MAX, ME-IO, ME-PLC, ICS
	1082299	HS LCA-RGB-10X5-L	ø 5 mm	1 (active, RGB), max. IP68 (EN 60529)	-	ECS, UCS
	1082300	HS LC-V-T-D4X5,2-45	ø 5.2 mm, spherical	1, max. IP68 (EN 60529)	-	ECS, UCS
	1082301	HS LC-F-T-6X3-150	ø 6 mm, lens	1 (flexible), max. IP68 (EN 60529)	-	ECS, UCS

¹⁾ Conical design

Accessories for electronics housings

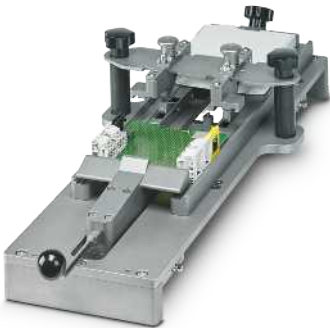
Panel mounting clamps					 Web code: #2363
					
Type	HS EH-B 140,5 DCS	HS MP VESA75/100 DCS	HS WM-S 75 DCS	HS PM-S 40 DCS	DCS 5,7-7,0 WALL MOUNT 7035
Item No.	1082302	1082303	1082304	1082305	2203752
Version	Ball joint	VESA 75/100	Board 75 x 75 mm, 4 x drill hole (diameter 6.5 mm)	Aluminum profile 40 mm, 2 x sliding block	Wall bracket for DCS 5,7 and DCS 7
Material	Glass-fiber reinforced PC	Die-cast aluminum	Glass-fiber reinforced PC	Glass-fiber reinforced PC	ABS

Functional ground contacts							 Web code: #2364
							
Type	ME FE-CONTACT	ME BUS FE CONTACT	ICS-FE-CONTACT	UM-BASIC/ PRO PE CONTACT L3-	UM-BASIC/ PRO PE CONTACT L2-	UM-BASIC/ PRO PE CONTACT L1-	UM-ALU 4 PE CONTACT-
Item No.	2908294	2278076	2203904	2202027	2202026	2202025	2200973
Housing use	ME	ME, ME-IO, ME MAX	ICS	UM-BASIC/ UM-PRO	UM-BASIC/ UM-PRO	UM-BASIC/ UM-PRO	UM-ALU

Coding profiles for headers			 Web code: #2365
			
Type	CR-MSTBO G1	CP-DMC 1,5-THR NAT	ICC coding
Item No.	2199618	1790647	1084009
Use	MSTBO	HSCH 1,5	ICS
Pcs./Pkt.	100	60	8

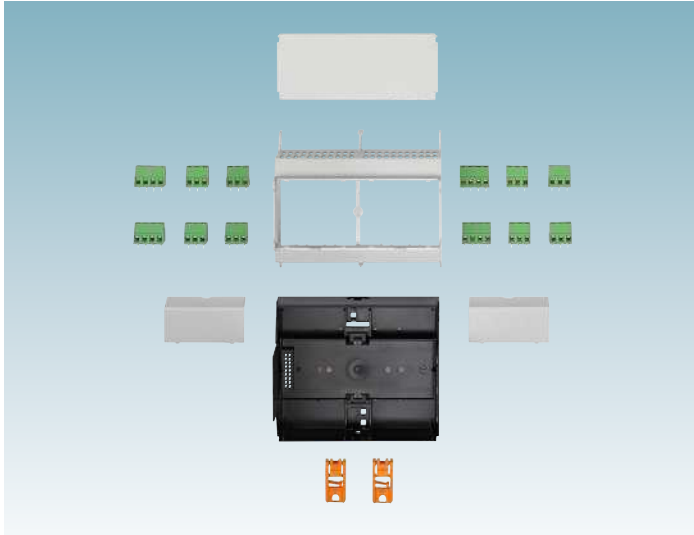
Mounting device for ICS series electronics housings

 Web code: #2325

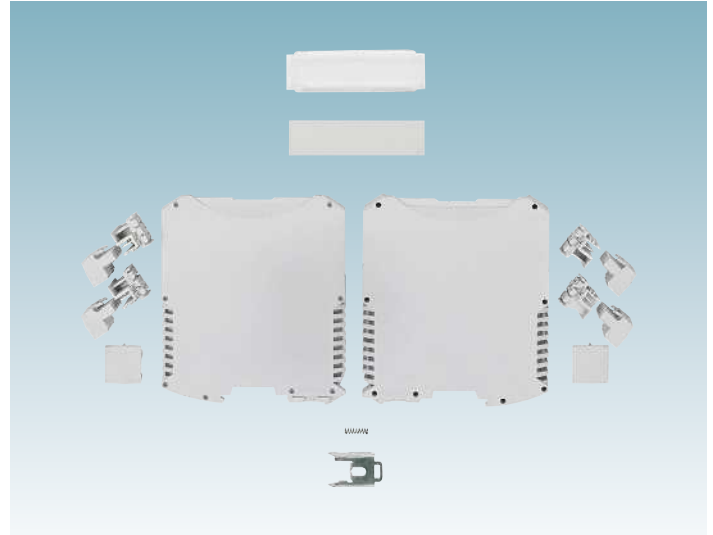


Type	ICS mounting device
Item No.	1118354
Description	The range of accessories for the ICS housing series now includes a user-friendly mounting device. The mounting device holds the housing panels in position, allowing the assembled printed circuit boards to be inserted easily. Magnetic mounts enable quick conversion to other ICS sizes. The robust material quality and mechanical design ensure high stability and durability. This allows the final assembly of the electronic devices to be carried out quickly and cost-effectively.

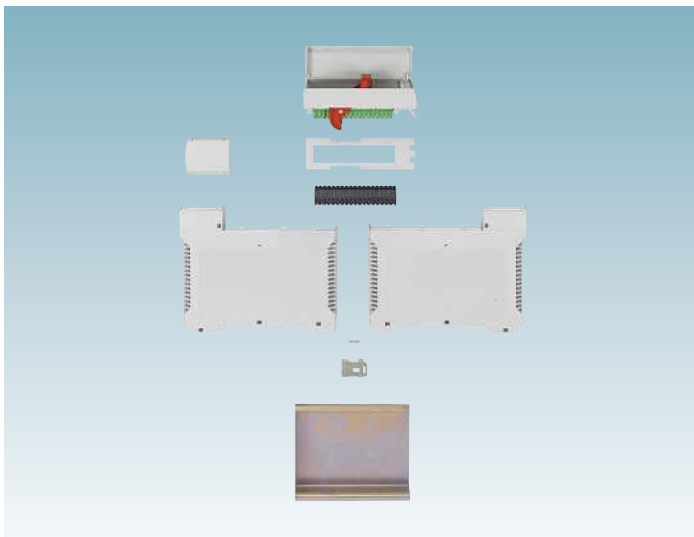
Development kits for prototype building and short-run production¹⁾



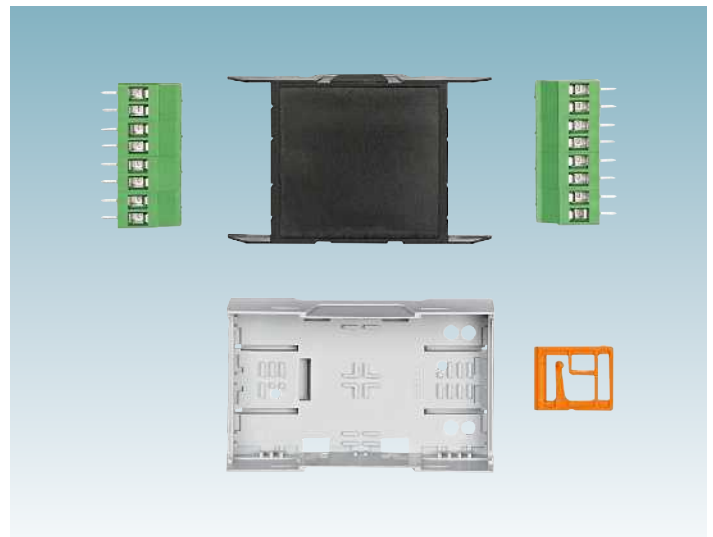
1 BC 107,6 DEV-KIT



2 ME MAX 22,5 2-2 DEV-KIT

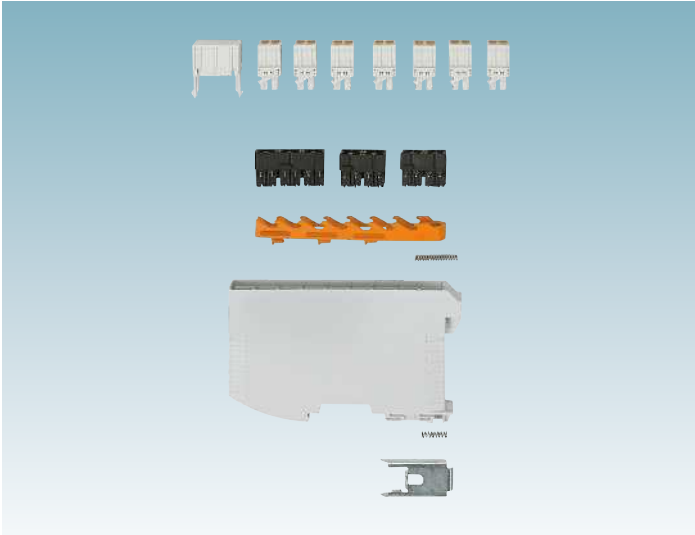


3 ME-PLC 40 DEV-KIT

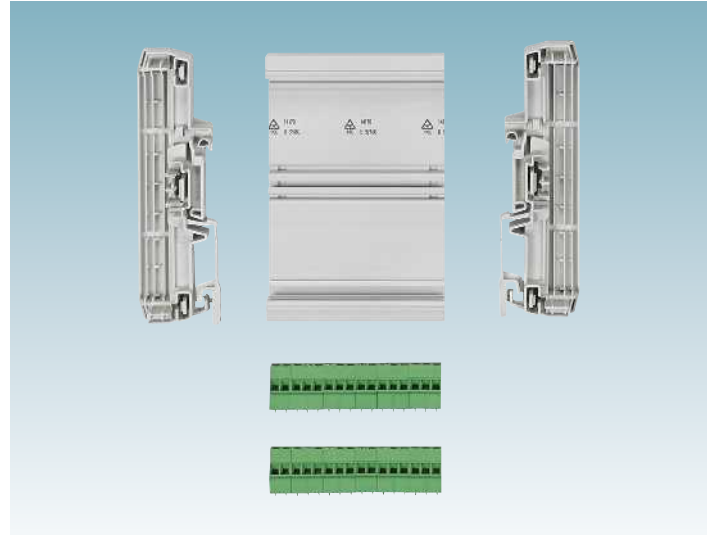


4 EH 45 FLAT DEV-KIT

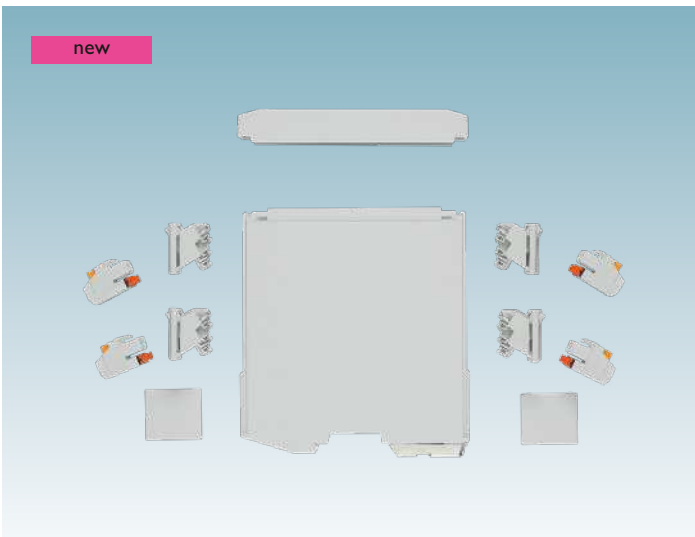
¹⁾ PCB with hole pattern
Development kit contains housing and connection technology for an operational module
Specific bus connectors available



5 ME-IO 18,8 DEV-KIT



6 UM-BASIC 108 100MM DEV-KIT



7 ICS 25 DEV-KIT

Development kits

1 BC 107,6 DEV-KIT

	Description	Type	Item No.
	DEV-KIT BC 107,6: contains 1 x housing BC 107,6 and PCB terminal block (MKDS), delivered in individual parts	BC 107,6 DEV-KIT KMGY	2202525
	PCB (hole pattern) for the BC 107,6 DEV-KIT	BC 107,6/40 U11 HBUS DEV-PCB	2202544
	Bus connector for connecting BC modules on the DIN rail, suitable for BC DEV-KITS, includes HBUS 107,6 and pin strip	HBUS 107,6-16P-1S DEV-KIT BK	2202545

2 ME MAX 22,5 2-2 DEV-KIT

	DEV-KIT ME MAX: contains 1 x housing ME MAX 22,5 2-2 and pluggable connection technology (4 x MSTBO with 4 x MSTBT), delivered in individual parts	ME MAX 22,5 2-2 DEV-KIT KMGY	2202524
	PCB (hole pattern) for the ME MAX DEV-KIT, for 4-pos. MSTBO header, suitable for hand soldering	ME MAX/16 2-2 TBUS DEV-PCB	2202542
	Bus connector for connecting ME MAX modules on the DIN rail, suitable for ME MAX DEV-KITS, includes ME 22,5 TBUS 1,5/5	ME 22,5 TBUS 1,5/5 VPE1 KMGY	2202543

3 ME-PLC 40 DEV-KIT

	DEV-KIT PLC: contains 1 x housing ME PLC 40 and pluggable connection technology (36-pos.), delivered in individual parts	ME-PLC 40 DEV-KIT KMGY	2202526
	PCB (hole pattern) for the ME PLC DEV-KIT, for 36-pos. header, suitable for hand soldering	ME-PLC 40/36 BUS DEV-PCB	2202546

4 EH 45 FLAT DEV-KIT

	DEV-KIT EH 45 FLAT: contains 1 x housing EH 45 FLAT and header PCB terminal block (MKDS ... 5,08), delivered in individual parts	EH 45 FLAT DEV-KIT KMGY	2202529
	PCB (hole pattern) for the EH 45 FLAT DEV-KIT, for MKDS-5,08 terminal blocks, suitable for hand soldering	EH 45F/16 DEV-PCB	2202552

5 ME-IO 18,8 DEV-KIT

	DEV-KIT ME-IO: contains 1 x housing ME-IO 18,8 and pluggable connection technology (HSCH mit HSCP), delivered in individual parts	ME-IO 18,8 DEV-KIT KMGY	2202527
	PCB (hole pattern) for the ME-IO 18,8 DEV-KIT, for HSCH 2,5 PCB with hole pattern, suitable for hand soldering	ME-IO 18,8/28 TBUS DEV-PCB	2202548
	Bus connector for connecting ME-IO modules on the DIN rail, suitable for ME-IO DEV-KITS, includes ME 18,8 TBUS 1,5/5	ME 18,8 TBUS 1,5/5 VPE1 KMGY	2202549

6 UM-BASIC 108 100MM DEV-KIT

	DEV-KIT UM-BASIC: contains 1 x profile housing UM-BASIC 100MM and PCB terminal block (SMKDS), delivered in individual parts	UM-BASIC 108 100MM DEV-KIT KMGY	2202528
	PCB (hole pattern) for the UM-BASIC 108 DEV-KIT, for SMKDS terminal blocks, suitable for hand soldering	UM-BASIC 108/32 DEV-PCB	2202551

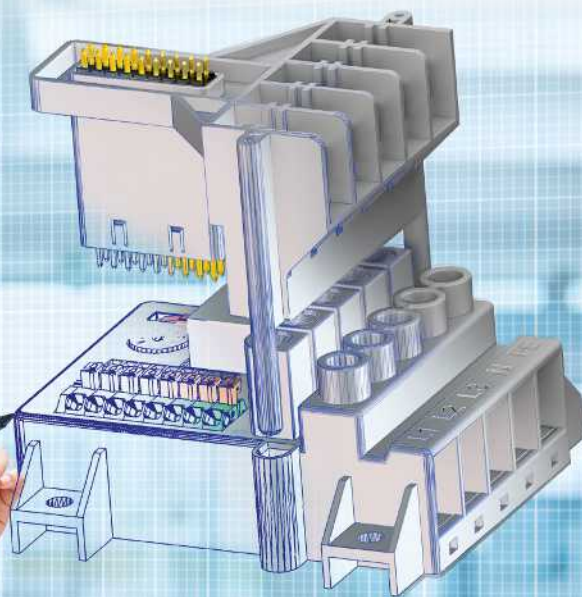
7 ICS25-BC100X110-V-7035 DEV-KIT

new 	DEV-KIT ICS: contains 1 x ICS housing with closed upper housing part; fillers closed (2 x), function fillers with RJ45 cutout (1 x); connection headers and codable plug in Push-in technology (4 x each), FE contact (1 x)	ICS25-BC100X110-V-7035 DEV-KIT	1291125
new 	PCB (hole pattern), suitable for hand soldering, goes with DEV-KIT ICS	ICS-DEV-PCB-01	1054082
new 	Bus connector for connecting ICS25 housings on the DIN rail, suitable for ICS-DEV-PCB-01, 7 parallel contacts and 1 serial contact	TBUS8-25,0-PPPPPPPS-7035	2202890
new 	PCB (hole pattern), suitable for hand soldering, fits in housing ICS ... B100X98 ... with hinged cover ICS TL100X12 ..., prepared for the mounting of 1 x 4-pos. header in pitch 5.0, 2 x 5-pos. header in 3.5 pitch, 1 x 15-pos. D-SUB, 1 x SMA antenna connection and for TBUS8 with 4 parallel and 4 serial contacts	ICS-DEV-PCB-02	1272837
new 	Bus connector for connecting ICS25 housings on the DIN rail, suitable for ICS-DEV-PCB-02, 4 parallel contacts and 4 serial contacts	TBUS8-25,0-PPPPSSSS-7035	1156781

New customized product developments

You have a challenge, we have the solution. We will support you throughout the product lifecycle, from the initial idea right through to the realization of your connection or housing solution. Our experience, built up over many years, guarantees that each new development will meet the most stringent market requirements.

Whether special designs or complex electromechanical system solutions – your custom product goes through a tried and tested development process at Phoenix Contact. Shape the innovations of tomorrow with us.



Your advantages

- ✓ Competent consultation on product requirements
- ✓ Detailed design of your desired concept
- ✓ Development of the ideal production concept
- ✓ Product qualification at our in-house laboratory
- ✓ Certification of the solution for your application
- ✓ Targeted project management right through to the start of series production



Preliminary clarification

Talk to us as your partner who understands the requirements and speaks your language. In the shortest time, we will provide you with:

- Personal consultation with experienced development engineers
- Joint technology workshops
- A technical concept, with inspection samples as an option
- A non-binding quotation



Conceptual design

Together, we will develop the best solution for your product in accordance with your specific requirements. Take advantage of the benefits of our proven conceptual design sequences:

- Coordinated and approved technical specification
- Regulated test plan, including laboratory tests and approvals
- Comprehensive documentation



Production-ready

Decades of experience and locations throughout the world enable flexible and absolutely reliable development sequences. Benefit from Phoenix Contact through:

- High-level development and laboratory expertise
- Simultaneous engineering
- Standardized project management and quality assurance
- Application-specific standards and approvals



Production and logistics

We guarantee that your products will always arrive on time and in accordance with processes – regardless of batch quantity. Your advantages:

- High-level vertical integration and in-house tool shop and machine building facilities
- Flexible production planning, from manual assembly right through to mass production
- Customized identification and packaging
- Global production and logistics network



Product lifecycle

Whether you are developing your products further, changing technical details, or want to discontinue them, we will accompany you throughout the entire product lifecycle:

- Certified quality and environmental management
- Holistic approach to the entire value added chain
- One contact person throughout the entire product lifecycle



Contact

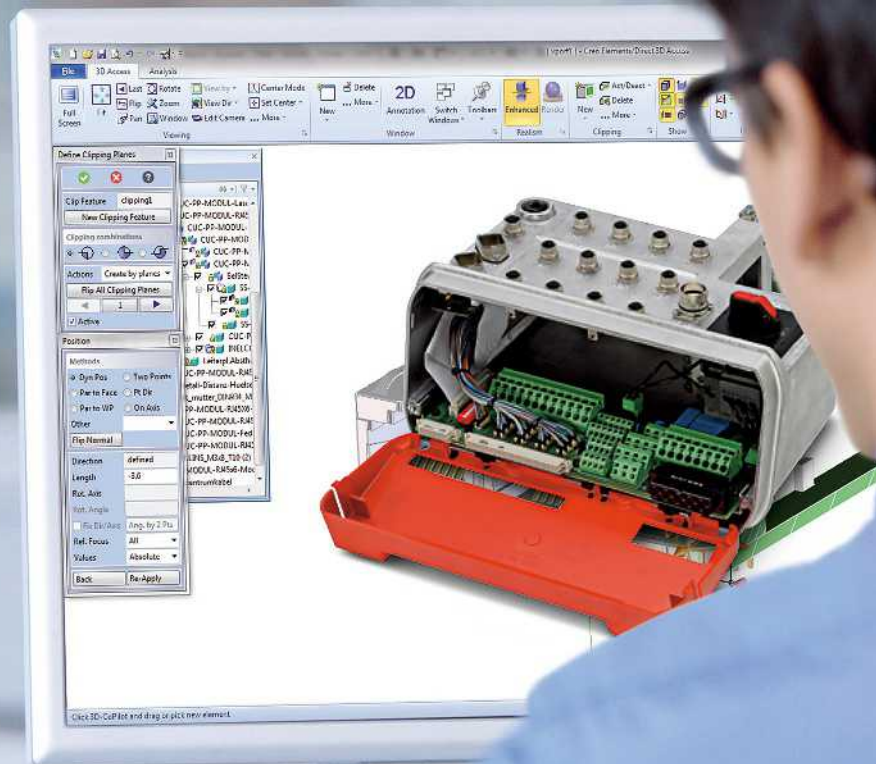
Contact us at:

E-mail: dcsolution@phoenixcontact.com

i Web code: #2580

In-depth expert knowledge in all project phases

Our philosophy is to master and advance all development, manufacturing, and assembly processes. This helps us to guarantee a consistently high level of quality and delivery reliability. Benefit from our many years of expertise. Whether power transmission, protected solutions for outdoor use, or industrial housings in your desired design – we offer you a product design developed specifically for your needs.



Our main areas of expertise at a glance



Connection technologies

Rigid or flexible conductors, large or small cross-sections, with or without a ferrule: We have the solution for every requirement.



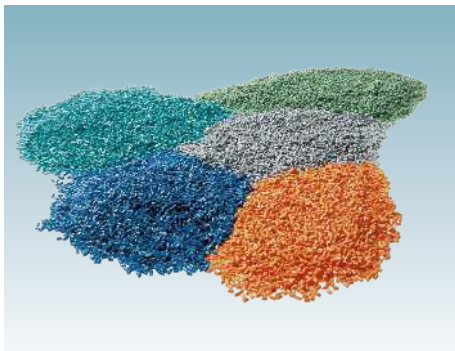
Contact technology

Signals, data, high power or use in harsh environments – whatever you need, we have the right contacts.



Metal housings, die-casting technology

Metal housings are ideal for industrial applications due to their robustness and excellent shielding.



Plastics technology

Choose from a wide range of plastic materials and colors. We will assist you in selecting the appropriate plastic.



Injection molding production

Our injection molding technology offers you almost unlimited design options for surfaces. Even small quantities are lucrative for you.



IP protection

Whether molded solutions or molds for outdoor applications: Our seal systems also satisfy the requirements for high degrees of protection.



Simulation

State-of-the-art simulation methods provide us with insight and understanding right down to the smallest detail. We test your product intensively, starting in the early stages of development.



Prototype construction

We deliver prototypes with up to 100% capability – including additive manufacturing with 3D printing from PROTIQ GmbH.



Certifications

International approvals and certificates, including the UL standard, attest to the suitability of our products.

Excellent services

Along your development process, Phoenix Contact offers excellent services that make the difference. Discover how modern configurators, comprehensive technical data, and free product samples can make your daily work easier. As your partner, we will support you in the design-in process all the way to the development of customized connection and housing solutions.

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- Intuitive online configurators

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- Free online sample service
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Always stay up-to-date about technologies and trends with us as your reliable partner:

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Device connection technology can be comprehensively configured



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Cable and assembly systems can be configured easily



Phoenix Contact supports you from the initial idea to series production



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Reliable logistics worldwide



Keep up-to-date on new products, trends, and technologies



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Phoenix Contact is a global market leader based in Germany. We are known for producing future-oriented components, systems, and solutions for electrification, networking, and automation. With a global network reaching across more than 100 countries with over 17,100 employees, we maintain close relationships with our customers, something we believe is essential for our common success.

Our wide variety of innovative products makes it easy for our customers to implement the latest technology in a variety of applications and industries. We focus on developing the fields of energy, infrastructure, process, and factory automation.

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phoenixcontact.com