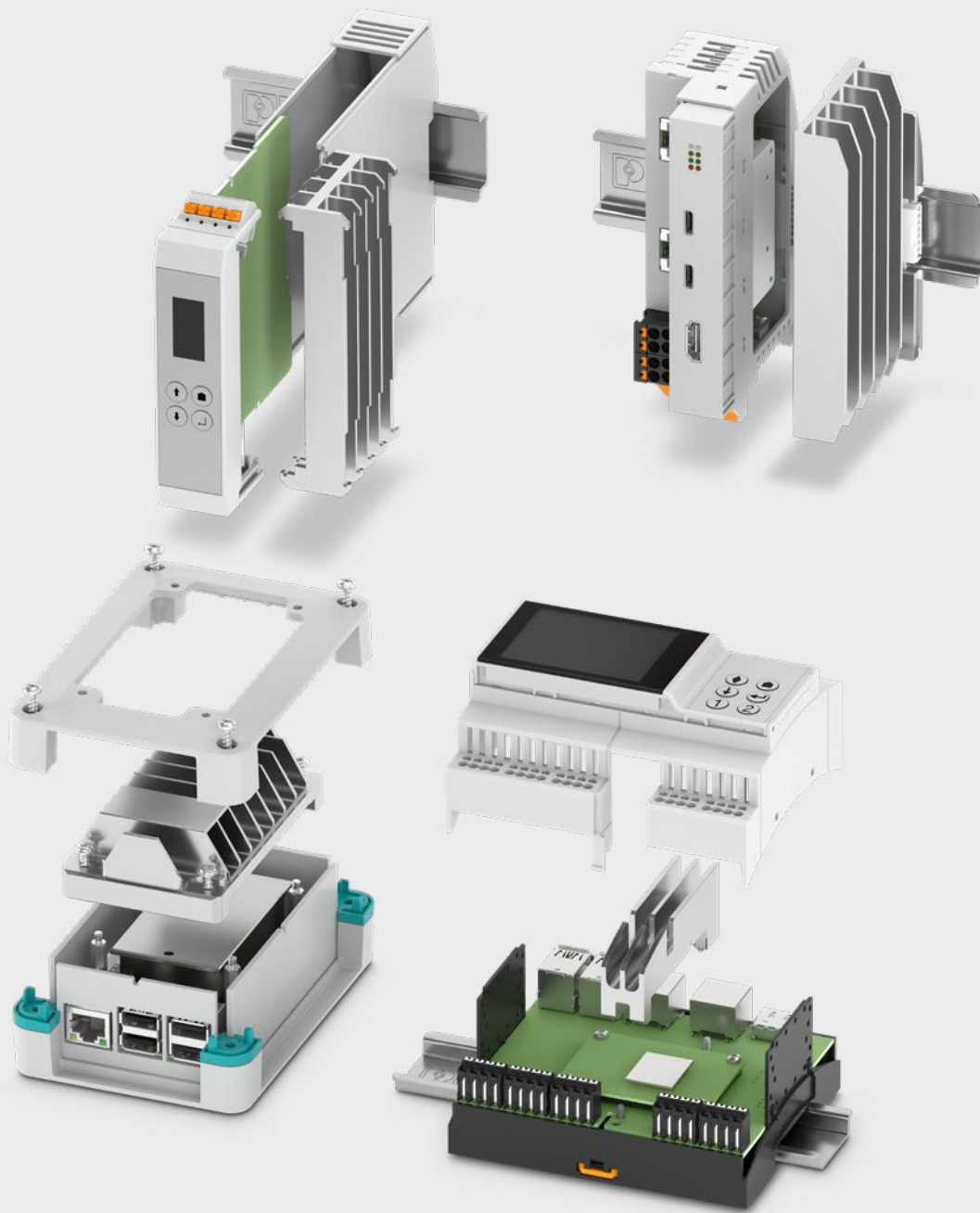




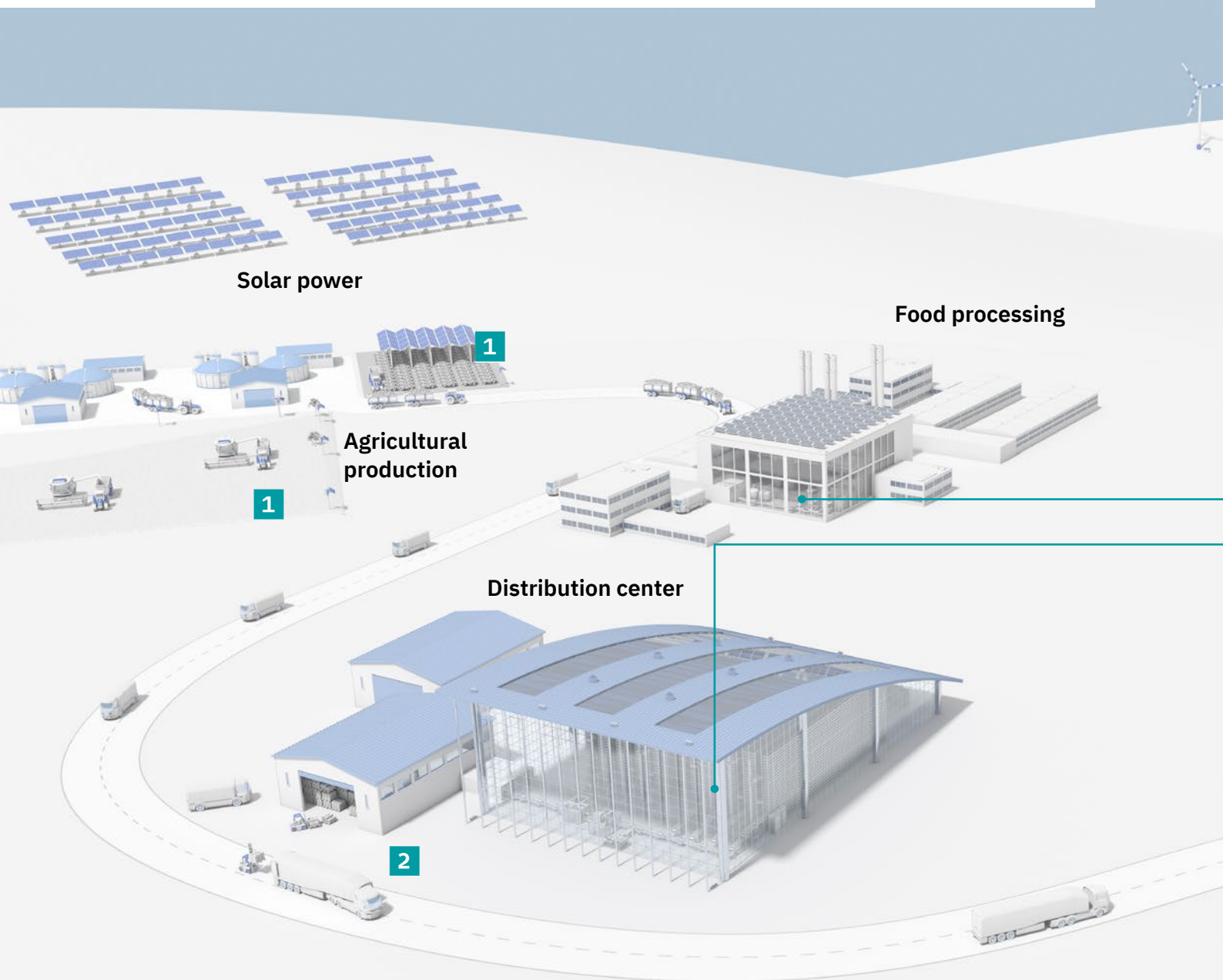
Electronics housings

Product overview 2025

The right housing components for every industry

The electronics on PCBs must be able to withstand demanding ambient conditions. Both in the control cabinet and in the field, the housing is subject to a wide range of requirements, such as IP degrees of protection and temperature ranges.

Our electronics housings meet all requirements – from various mounting options, IP degrees of protection, interfaces, the appropriate connection technology, integrable displays, and thermal management systems regulated via passive heatsinks.



Wind power

5



3

4

End consumers

6



1 Off-grid monitoring
(e.g., OCS/POS housing system)



2 GPS monitoring
(e.g., ECS housing system)



3 Controllers, gateways, interface applications
(e.g., ICS and ME-IO housing system)



4 Building automation and control
(e.g., BC housing system)



5 Data loggers
(e.g., UM-Pro housing system)



6 Monitoring systems
(e.g., UCS housing system)

Housing solution 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.



1 Housing systems for the field and DIN rails

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

➤ More information starting on page 6



2 Customization

We build custom and tailor-made housings for you through various offers. From the modification of a standard product to a completely new development, professional support is one of our key areas of expertise.

➤ More information starting on page 20

4

Configuration pages

Here you will find detailed information on the individual housing families for creating your individual application. This provides an overview of the various components, such as displays, membrane keypads, and connection technology.

➤ More information starting on page 34

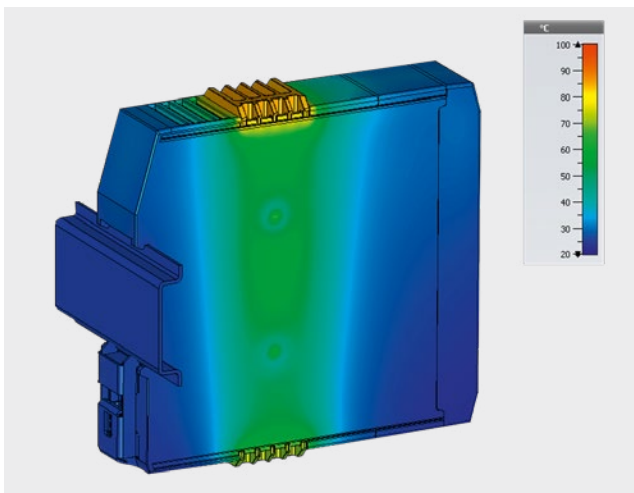


3

Thermal management during device development

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 or individual housing designs.

➤ More information starting on page 30



Contents

Housing systems for the field and DIN rails	6
Customization	20
Thermal management	30
Configuration pages	34
Field housings	36
Universal housings	36
Monitoring housings	52
Outdoor housings	58
Modular electronics housings for Raspberry Pi applications	82
DIN rail housings	86
Basic housings	86
Modular housings	92
Multifunctional housings	128
Modular building installation housings	144
Extruded profile housings	164
HMI components and accessories	184
Development kits for prototypes	198
New customer-specific product developments	204
Excellent services	208

Housing systems for the field

From stationary display units, embedded systems, and robust outdoor devices through to energy-self-sufficient systems: field housings with a high degree of protection from Phoenix Contact are suitable for a wide range of application fields, such as building automation, the process industry, measurement data acquisition, off-grid infrastructure, and transportation infrastructure.



Your advantages at a glance



Flexible mounting options

The housings can be mounted in various places.



High degree of protection

IP6X degree of protection prevents the ingress of dust and water.



Design features

Our solutions set visual accents in any environment.

Display integration for user-friendly operation

Individually configurable membrane keypads

Integration of multiple PCBs – particularly easy with board-to-board connectors

Optimal interaction with data interfaces

Connections with Push-in or screw technology

Overview of field housings

Phoenix Contact field housings are suitable for a wide range of applications. The housings feature high degrees of protection (IP6X/NEMA) and international approvals (DNV, UL, IEC). Solutions for different mounting types as well as specific features such as a battery compartment and pressure compensation membrane round off the portfolio. The integration of a wide range of connection technology enables use in numerous applications.



Field housing product navigator

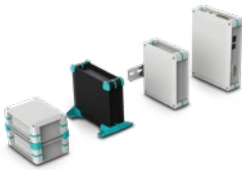
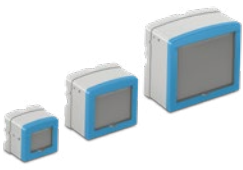
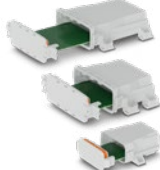
1

2

3

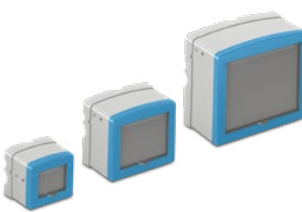
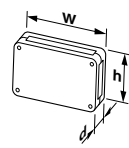
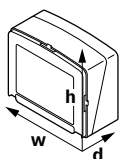
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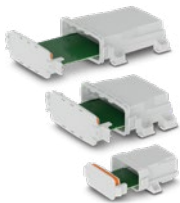
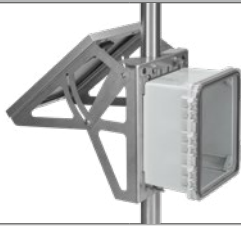
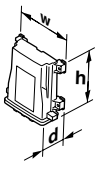
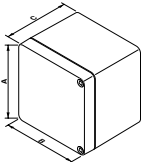
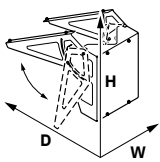
Housing systems for the field and DIN rails

Housing series	UCS	MCS	ECS	OCS
Pages	36 ... 51	52 ... 57	58 ... 67	68 ... 80
				
Applications in harsh environments				
Increased degree of protection IP6x/NEMA		●	●	●
Potentially explosive areas			●	
Maritime approval DNV			●	
Housing approval UL50			●	●
Applications (mounting type)				
Mast mounting		●	●	●
Panel mounting	●	●	●	●
Desk	●			
VESA	●			
Aluminum profile		●		
DIN rail	●	●		
Connection technology				
All IP20 connection technologies	●	●	●	●
All IP6x connection technologies		●	●	●
HMI integration and accessories ¹⁾				
Keypads	●	●		
Heatsink	●			
Displays	●	●		
Light guides	●	●	●	
Variability				
Side panels can be replaced	●			
Pressure compensation membrane		●	●	●

1) Custom combinations available on request.

Overview of field housings

Field housings						
						
Housing series		UCS		MCS		
 Web code		#0854		#3462		
Mounting		NS 35 DIN rail ¹⁾ , panel mounting, tabletop operation, VESA, wall outlet box		NNS 35 DIN rail, panel mounting, mast mounting, aluminum profile		
Operating temperature range [°C] depending on the power dissipation		-40 ... +100		-40 ... +85		
Max. degree of protection in accordance with DIN EN 60529		IP40		IP40 or IP65/IP67		
Max. degree of protection in accordance with NEMA 250				Type 6		
UV resistance		●		● (f1 rating)		
Approvals ³⁾						
Impact resistance in accordance with DIN EN 50102				IK07		
Dimensions	Width / w [mm] or length / l [mm]		87 / 125 / 145 / 195 / 237 ¹⁾		78 / 112 / 156	
	Depth / d [mm]		47 / 67		42 / 52 / 65	
	Height / h [mm]		87 / 125 / 145 / 195 ¹⁾		64 / 90 / 127	
Maximum usable PCB surface [mm²] per PCB		3600 ... 35800 ²⁾		2680 ... 15500		
Thermal resistance Rth [K/W] ³⁾		13.8 – 2		17.3 – 4.5		
Display integration		●		●		
Membrane keypad installation		●		●		
Light guide integration		●		●		
PCB connection		Optional assembly, e.g., with M12 panel feed-throughs		Optional assembly, e.g., with M12 panel feed-throughs		
Variability		Stackable, side panels can be replaced, impact-resistant		Cover with various functions		
Material	Designation	PC (polycarbonate)		PA (polyamide) reinforced with GF		
	Flammability rating	V0 (UL94)		V0 (UL94)		
Sample set		52008272		1666583		
See page		36		52		

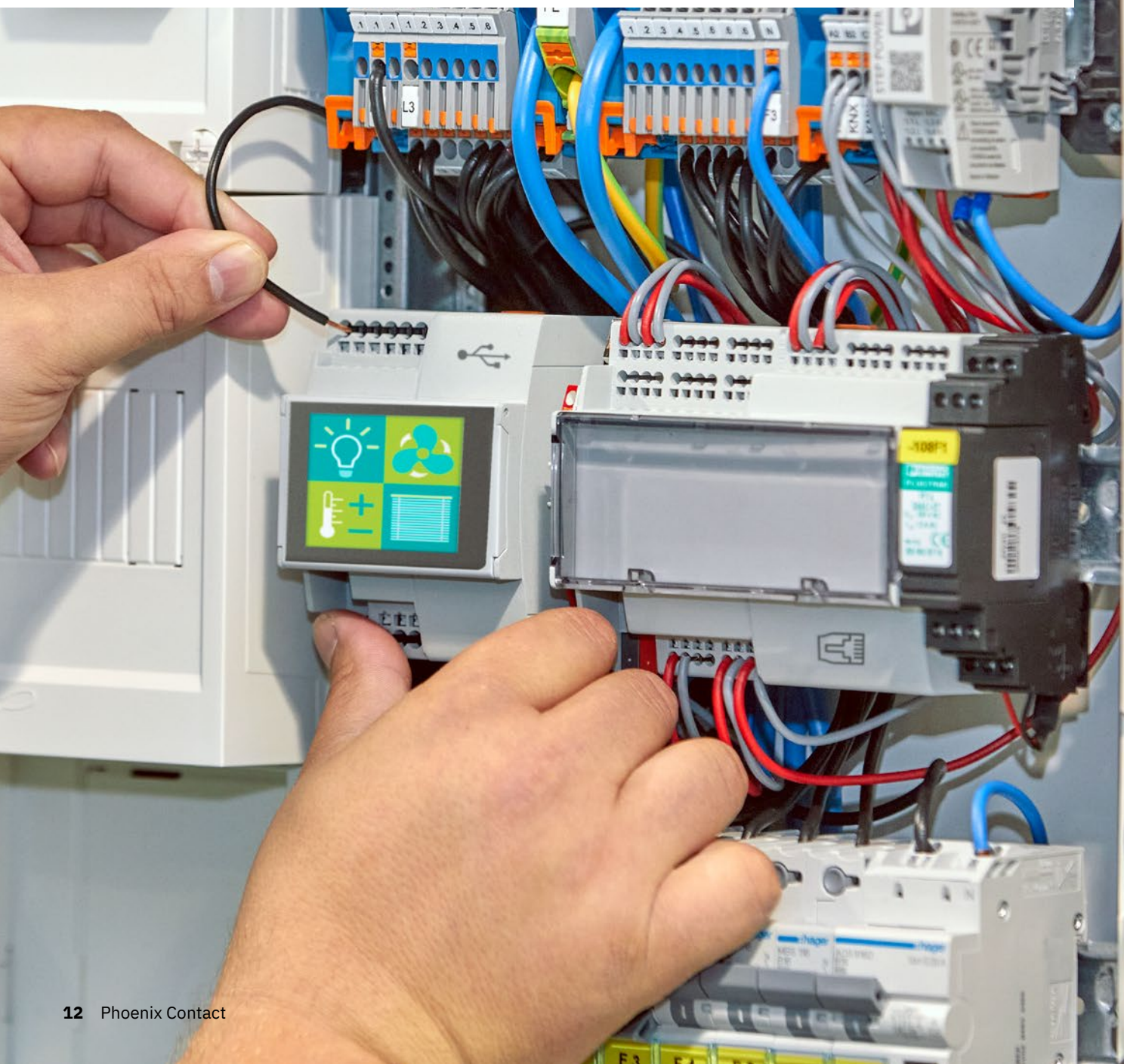
					
ECS		OCS		POS	
#0858		#3249		#3383	
Panel and mast mounting		Panel and mast mounting		Panel and mast mounting	
-40 ... +100		-40 ... +80 (+120 short-term)		-40 ... +80	
IP67/IP68/IP69		IP69		IP68 (24 h/2 m)	
Type 6		4X, 12, 13, 6P		4X, 12, 13, 6P	
● (f1 rating)		● (f1 rating)		● (f1 rating)	
DNV, UL, IECEx, ATEX		UL, IEC,		UL ⁴⁾ , IEC ⁴⁾	
IK08		IK10		IK10	
	163 / 196		204/257/308/358/ 410/463		304/ 370 (POS Polefix)
	64		134/185/185/185/ 228/286		501.6/ 817.6 (POS Polefix)
	120 / 180		223/276/326/377/ 429/482		454.5/ 729.5 (POS Polefix)
5100 ... 15400		20520 ... 158950		20520... 158950	
		3 – 1.2			
		● (Front panel)		● (Front panel)	
		● (Front panel)		● (Front panel)	
Maximum IP68		● (Front panel)		● (Front panel)	
Optional assembly, e.g., with M12 panel feed-throughs		Optional assembly, e.g., with outdoor connection technology		Optional assembly, e.g., with IP-protected connection technology	
Mast mounting, panel mounting, pressure compensation membrane		Mast or panel mounting outdoors, pressure compensation membrane		Pole or panel mounting outdoors, battery holder	
PC (polycarbonate)		PC (polycarbonate, UV-stabilized)		PC (polycarbonate), VA (stainless steel), monocrystalline	
V0 (UL94)		V2 (UL94), housing		V2 (UL94), housing	
52008541					
58		68		76	

1) Mounting on DIN rail not possible for 87 mm x 87 mm and 237 mm x 195 mm versions.
2) One PCB per housing half.

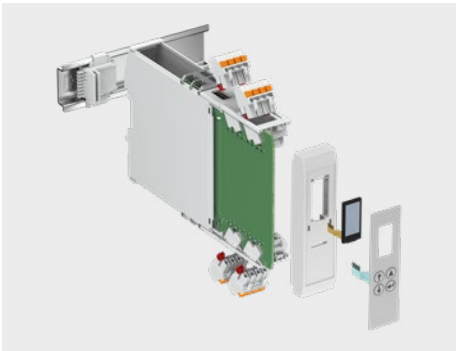
3) For more detailed information, please refer to the technical data for the respective item in the e-shop.
4) Approval applies to the housing.

Housing systems for DIN rails

In the field of control cabinet applications, we stand for individuality and customized components. You can choose housings from a range of product families that have connection options for almost any interface. The comprehensive portfolio of accessories rounds out the range.



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

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



Long-term product availability

Highly future-proof with items available for many decades.

Heatsink integration

Connection technology

Module communication

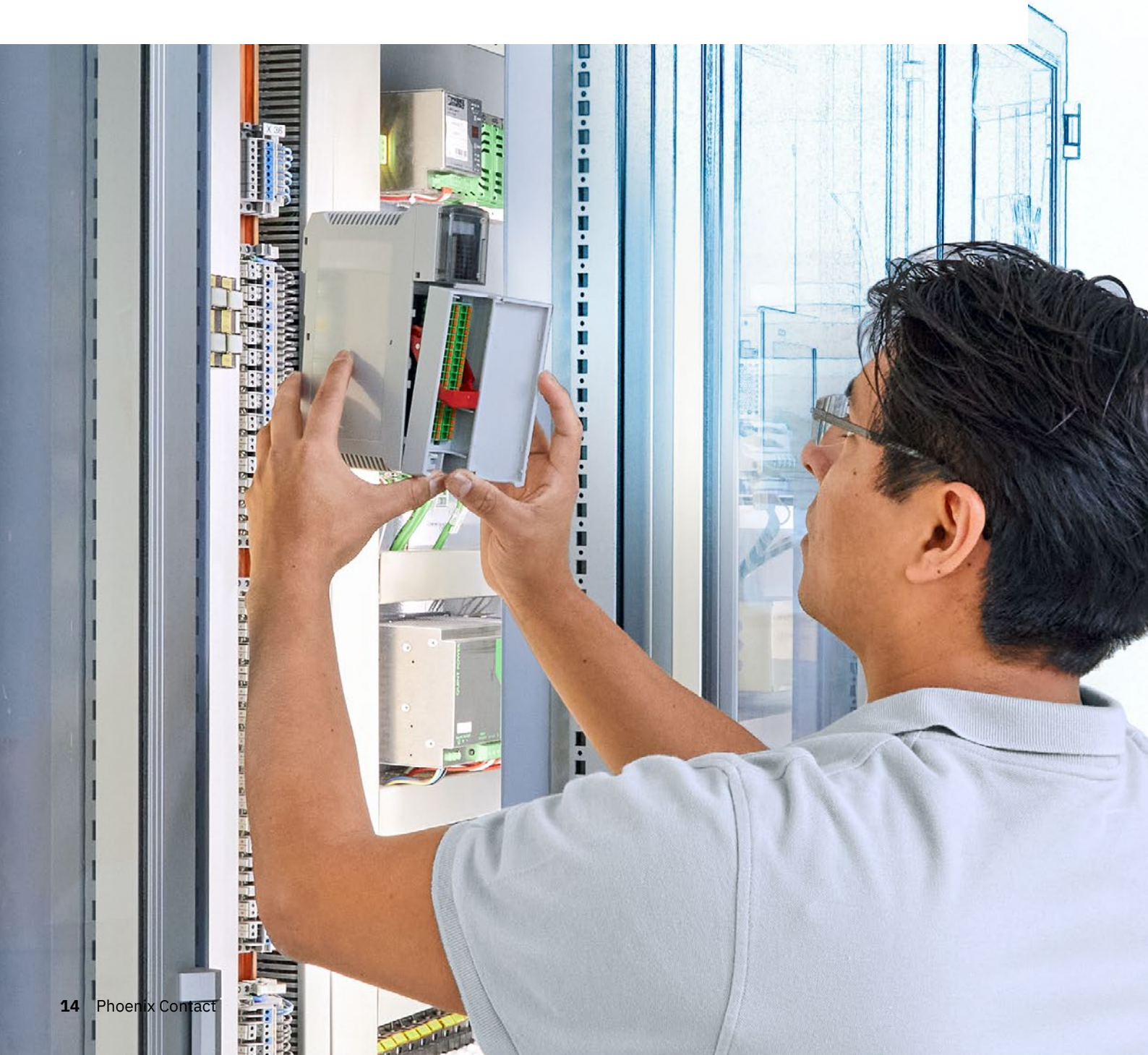
Board-to-board connectors

Display integration

Keypads

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. Additional options such as automated thermal simulation and individual off-tool covers are possible.

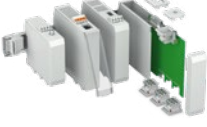
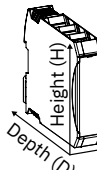


DIN rail housing product navigator

Housing series	EH	ICS	ME	ME MAX	ME-IO/ ME-IO Slim	ME-PLC	BC	UM-PRO/ BASIC	UM-ALU
Pages	86 ... 91	92 ... 111	112 ... 119	120 ... 127	128 ... 139	140 ... 143	144 ... 163	164 ... 179	180 ... 183
									
Connection technology									
Connection direction front					●/●	●	●	●	●
Connection direction top / bottom	●	●	●	●			●	●	●
Push-in conductor connection		●	●	●	●/●	●	●	●	●
Screw conductor connection	●	●	●	●			●	●	●
Connectors with header		●	●	●	●/-	●	●	●	●
PCB terminal blocks	●	●	●	●			●	●	●
THR			●	●	●/-		●	●	●
Locking function					●/-	●			
PCB integration									
Orthogonal	●				●/●		●	●	●
Vertical	●	●	●	●	●/●	●	●		
Connection technology									
Conductor cross-section >2.5 mm²							●	●	●
Conductor cross-section 2.5 mm²	●	●	●	●	●/-	●	●	●	●
Conductor cross-section 1.5 mm²	●	●	●	●	●/●	●	●	●	●
RJ45		●			●/●	●	●	●	●
Antenna, D-SUB, USB		●					●	●	●
Individual	●	●	●	●	●/●	●	●	●	●
Housing design									
Extruded profile								●	●
Half shells				●	-/●	●			
Modular electronics housing	●	●	●		●/-		●		
Integrable standard components¹⁾									
Keypad		●					●		●
Displays		●	●	●	●/-		●		
Heatsink		●			●/-		●		
Light guides	●	●	●	●	●/-	●	●	●	●
Services									
Automated thermal simulation		●							
Custom covers		●							

¹⁾ Individual solutions available on request.

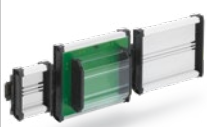
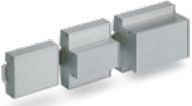
Overview of DIN rail housings

		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 in accordance with DIN EN 60529		IP20	IP20	IP20	IP20	
 Dimensions Width/length (W) Height (H) Depth (D)	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]		5600 ... 7200	3500 ... 22000	2000 ... 6600	3400 ... 8500	
Power dissipation	Thermal resistance [W] in direct apposition	4.4 ... 10.4	5.2 ... 10.4	5.2 ... 10.4	5.2 ... 8.2	
PCB connection	Max. number of positions for 3.5 mm pitch	5 ... 21	5 ... 80	5 ... 40	18 ... 120	
	Max. number of positions for 5.0 mm pitch	4 ... 17	4 ... 64	4 ... 32	8 ... 96	
	Max. number of positions for 7.25 mm and 7.5 mm pitch			3 ... 24	12 ... 72	
Bus connector	Type		DIN rail connector	DIN rail connector ¹⁾ , integrated 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		86	92	112	120	

¹⁾ All information relates to the TBUS DIN rail connector.

²⁾ All information relates to the integrated cross-connector.

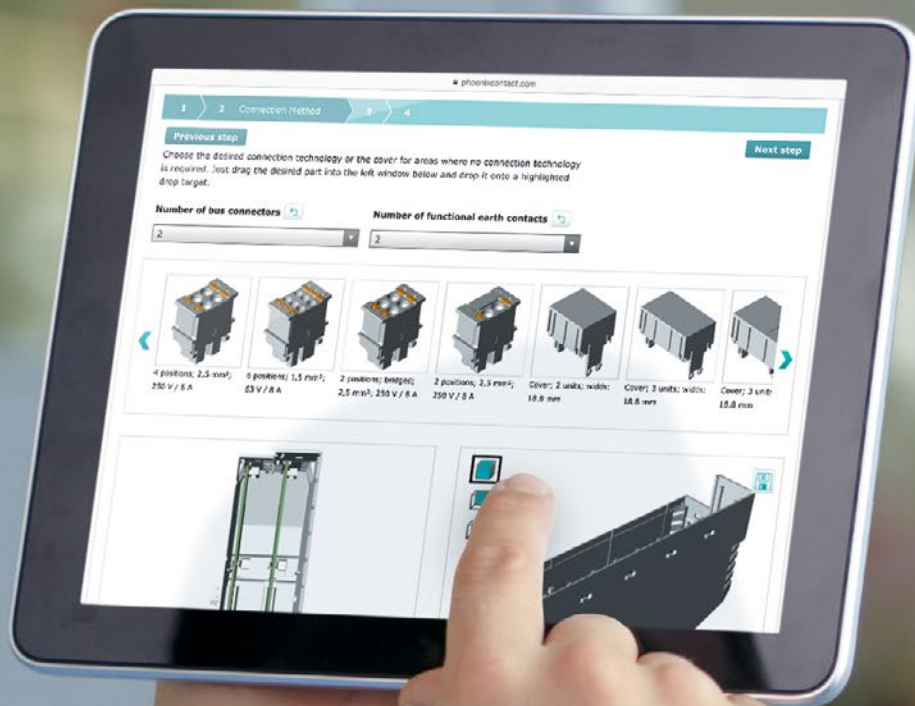
³⁾ PBR power connector with PCO connection technology.

Multifunctional housings			Modular building installation housings		Extruded profile housings	
						
ME-IO	ME-IO Slim	ME-PLC	BC	RPI-BC	UM-BASIC/UM-PRO	UM-ALU
#0308	#0904	#0309	#0311	#0664	#0313 / #0314	#0315
NS 35	NS 35	NS 105 or 2x NS 35	NS 35	NS 35	NS 35	NS 35
-40 ... +105	-40 ... +105	-40 ... +105	-40 ... +105	-40 ... +105	-15 ... +50 / -40 ... +105	-40 ... +100
IP20	IP20	IP20	IP20	IP20	IP00	IP20
18.8 / 37.6 / 75.2	12 / 24 / 53	40	17.8 (1 HP) to 215.6 (12 HP)	107.6 (6 HP)		
					30 ... 1000	42.5 ... 990
77	80	159	62.2	62.2	40	33
113 / 124	100	180	89.7	89.7	72 / 108 / 122 Internal dimensions of the PCB holder	72 / 100.5 Internal dimensions of the PCB holder
3370 ... 6483	4200 ... 5700	15000	2200 ... 13000	Raspberry Pi boards plus 8200	700 ... 1200 / cm	3000 ... 97000 / cm
2.8	2.3	Approx. 25	2.95 ... 16.95	13.08		
54		Optional assembly	Optional assembly	Optional assembly	Optional assembly	Optional assembly
36	18	Optional assembly	Optional assembly		Optional assembly	Optional assembly
		Optional assembly	Optional assembly		Optional assembly	Optional assembly
DIN rail connector	Module to module	DIN rail connector (only with TS 105)	DIN rail connector	DIN rail connector		
ME 18,8 TBUS 1,5 / 5 TBUS8 18,8	ME-IO-S BUS8-9005	ME PLC 40 BUS 10 ⁴⁾ ME PLC 40 BUS 50 ⁵⁾	HBUS	HBUS	Optional assembly	
5 8	8	10 ⁴⁾ 50 ⁵⁾	8 16	8 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)	PC (polycarbonate) / PA (polyamide)	PVC (polyvinyl chloride) / reinforced PA (polyamide)	Anodized aluminum (Al Mg Si0.5) Cover: PA (polyamide)
V0 (UL 94)	V0	V0 (UL 94)	V0 (UL 94)	V0 (UL 94)	V0 (UL 94)	Cover: V0 (UL 94)
Functional ground (FE)	Functional ground (FE)	Functional ground (FE)			Protective ground (PE)	Protective ground (PE)
52005220	tbd	52003927	52005225	52007812	52005309	52002012
128	136	140	144	82	164	180

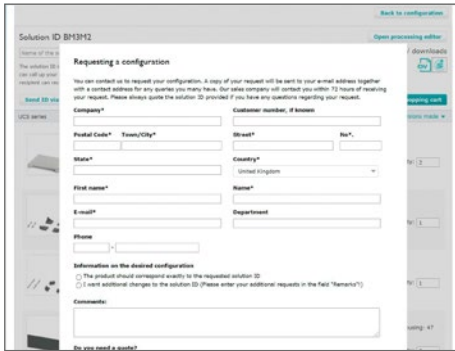
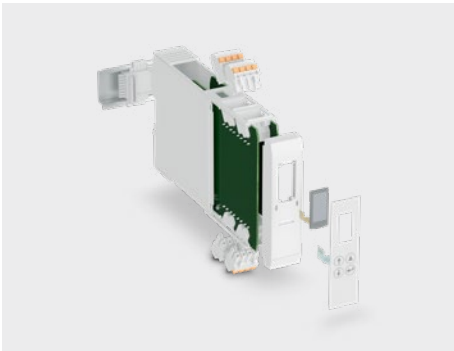
⁴⁾ ME-PLC-BUS DIN rail connector, 10-pos.⁵⁾ ME-PLC-BUS DIN rail connector, 50-pos.⁶⁾ For further information, including Rth values, refer to the product documentation.

Online tools for selecting the housing

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



Online assembly drawing



Download CAD data

Once the configuration is complete, the entire module can be downloaded in 2D and 3D formats.

PCB layout

Your custom PCB layout is also part of the module, so you can start directly with the design-in.

Parts list and solution ID

For your solution ID, you will also receive the complete parts list for your configured housing solution.

Online configurator

Electronics housings

Here you can find and configure the right housing for use as a single device.

Min. width

100 - 100

mm

Max. width

100 - 100

mm

Min. height

28.1 - 300

mm

Max. height

28.1 - 300

mm

Min. depth

53.5 - 210

mm

ICS series

HE series

HE-MAX series

Series EH

HE-IO series

HE-PLC series

BC series

UCS series

HCS series

DCS series

EC series

UH-BASIC/PRO series

Electronics housings

Here you can find and configure the right housing for use as a single device.

Solution not saved yet

Multifunctional housings with modular front connection technology- ME-IO...

Here you can conveniently configure your housing with connection technology using drag and drop. To do this, simply move the housing parts offered in the selection at the top to the bottom-left edit window and place them on the insertion points marked.

1

2

3

4

5

That's it!

Display all decisions made

Your housing has been completely configured! Click on "View articles" to go to the parts list.

1

2

3

4

5

That's it!

Display all decisions made

Your housing has been completely configured! Click on "View articles" to go to the parts list.

Close

Export - Download der Datei

Format

STEP

SAT

DXF

IGES

VRLA

JPG

PNG

Electronics housings

Here you can find and configure the right housing for use as a single device.

Solution ID CWWVP

Name of the solution

The solution ID is the reference number that identifies your summary in our system. This means that you can call up your solution again at any time. If you send the solution ID via e-mail to others, then the recipient can reconstruct your summary quickly.

Send ID via e-mail

Documents / downloads

Add to shopping cart

me-io

Display all decisions made

2202306 - ME-IO 18.8 B 10U TBUS 7035
DIN rail housing. Lower housing part with metal foot catch, with vents, width: 18.9 mm, height: 120.6 mm, depth: 64.3 mm, color: light gray (7035); cross connection: DIN rail connector (optional), number of positions cross connection: 8
Quantity: 1

2201780 - HSCP-SP 2.5-114-7035
PCB connector nominal cross section: 2.5 mm², color: light gray, nominal current: 8 A, rated voltage (III/2): 300 V, contact surface: Tin, type of contact: Female connector, number of potentials: 4, Number of rows: 2, Number of positions per row: 4, number of connections: 4, product range: HSCP-SP 2.5-... pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0°, Leading clip: Leading clip, plug-in system: HSC 2.5, Locking: without, mounting: without, type of packaging: packed in cardboard, Color of the spring lever: orange
Quantity: 1

2202234 - HSCP-SP 1.5-116-7035
PCB connector nominal cross section: 1.5 mm², color: light gray, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, type of contact: Female connector, number of potentials: 4, Number of rows: 2, Number of positions per row: 4, number of connections: 4, product range: HSCP-SP 1.5-... pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0°, Leading clip: Leading clip, plug-in system: HSC 2.5, Locking: without, mounting: without, type of packaging: packed in cardboard, Color of the spring lever: orange
Quantity: 1

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

4. Show the parts list and order directly

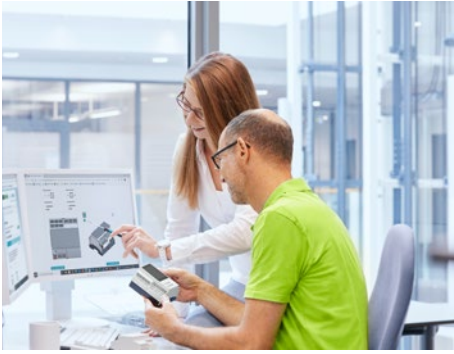
Customization

2

Our range of housings and connection technology solutions includes many options for designing state-of-the-art devices. We offer a wide range of customization options in order to perfectly adapt the housings to your application. Mechanical processing, design customization, printing, and personal consultation all work together to give you the benefit of the highest possible degree of customization.



Your advantages at a glance



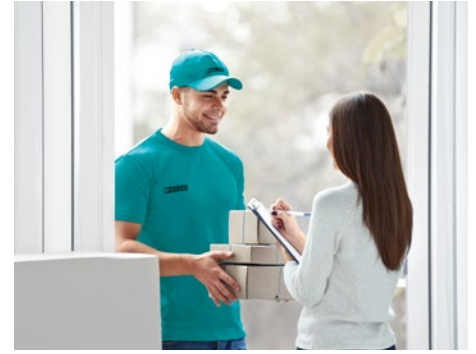
Individual housing samples

Free samples for the qualification of your individual application.



Exact market positioning

Develop your tailor-made solution for maximum brand recognition value.



Easy processes

Short replacement times due to individually manufactured housings directly from the manufacturer.

Workflow

From standard housings to a tailor-made solution directly from Phoenix Contact – your route to a customer-specific housing solution.

Select the housing system and assemble the module

Download the CAD data and integrate your electronics

Request your tailor-made solution

Incl. mechanical processing and specific printing according to your requirements

Non-binding quote

3 free release samples

Validate your application and release it

Create the specific item number for your housing version

Batch-size accurate series production also for small and medium quantities

Mechanical adaptation

Whether mechanical processing with state-of-the-art milling machines, tool inserts in the existing master tool, or the customized design of individual housing components, we offer the perfect process for the cost-effective implementation of your housing version.



Mechanical adaptation

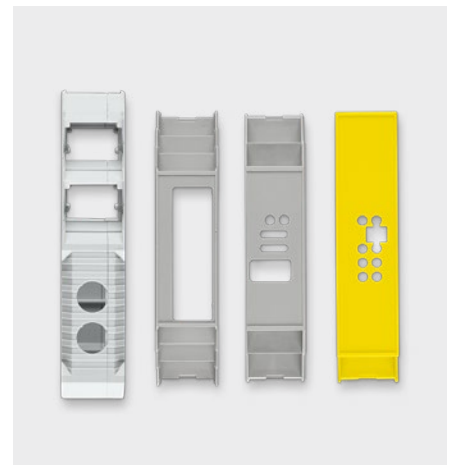
Mechanical processing

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



Custom design

To deliver a solution tailored to your specific requirements, it is sometimes necessary to replace individual standard housing parts with customer-specific designs. We develop housing components in accordance with your specifications and combine them with proven standard components.



Design adaptation – housings and accessories

From color versions and printing to the custom design of a membrane keypad – we offer the perfect process for the custom assembly of your application. Take advantage of our wide range of services and let us create your design version.



Design adaptation

Color versions

We also produce electronics housings in colors other than the standard color, either completely or as a combination of different colored housing parts.

Our ability to reproduce your own company color maximizes the brand recognition value of your application

Colors (similar):

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

More available on request.



Customized membrane keypads

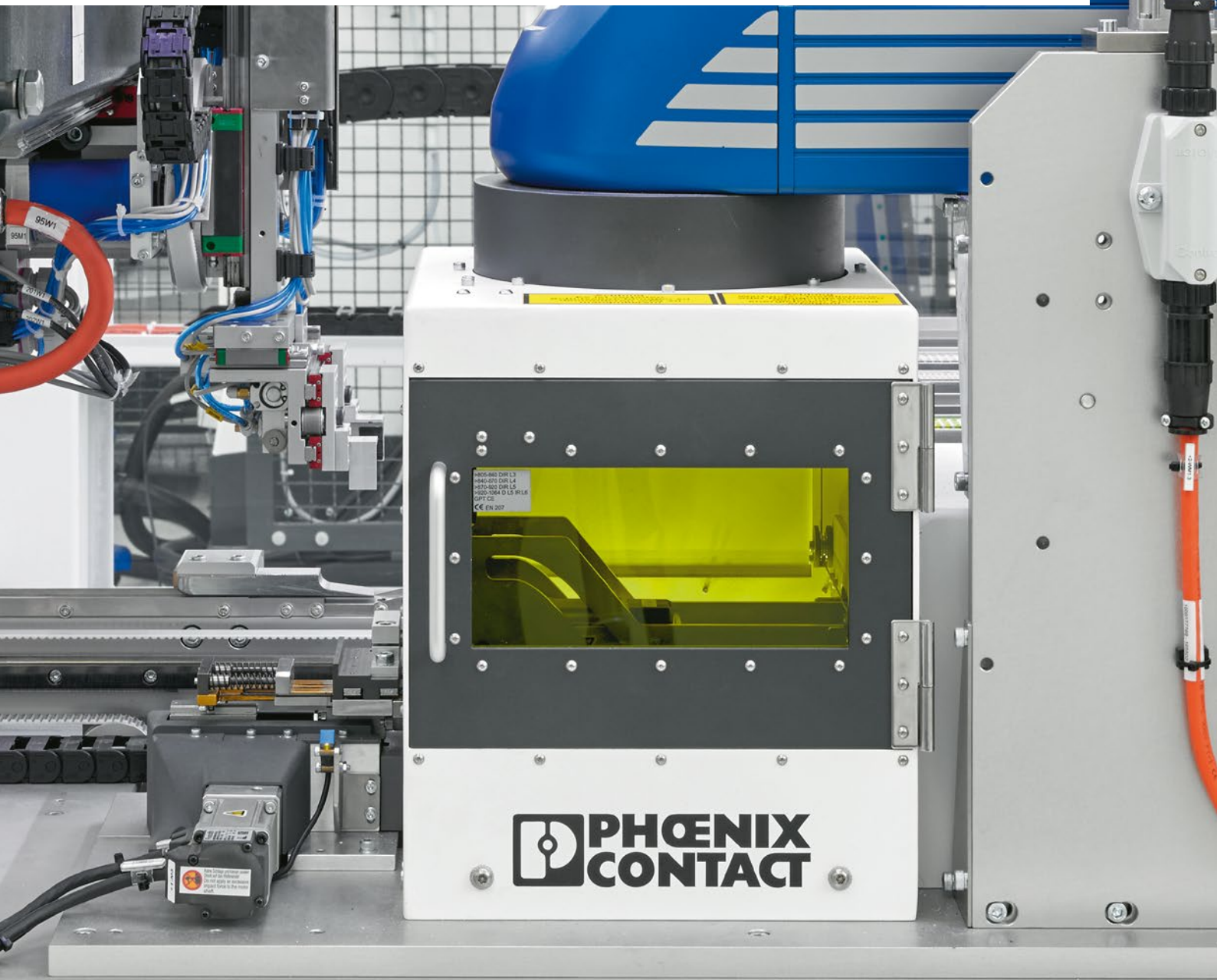
“Intelligent” devices need reliable input systems. Membrane keypads are used in many areas of industrial production as well as in machine building and logistics. A membrane keypad always consists of a combination of multiple layers – with extensive options for customization.

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



Design adaptation – printing

From functional printing for the identification of operating elements and adding your customer logo through to rounding off your application with attractive graphics using photorealistic printing – we offer the perfect process for implementing your requirements in a way that is both visually appealing and cost-effective.



Design adaptation

Functional printing

For future use of your application, marking the existing operating and display elements is a must.

See the available options to select the optimal printing process for printing your application.

Pad printing:

Cost-effective printing for one- or two-color texts and logos

Laser marking:

Resistant marking for consecutive serial numbers and codings (barcode, QR code, or DataMatrix code)



Design

A customer logo or printing with graphic elements is a common choice to ensure the maximum brand recognition value of your device.

See the available options to select the optimal printing process for the graphical design of your application.

Digital printing:

Photorealistic designs and color gradients even for small or medium quantities

Screen printing:

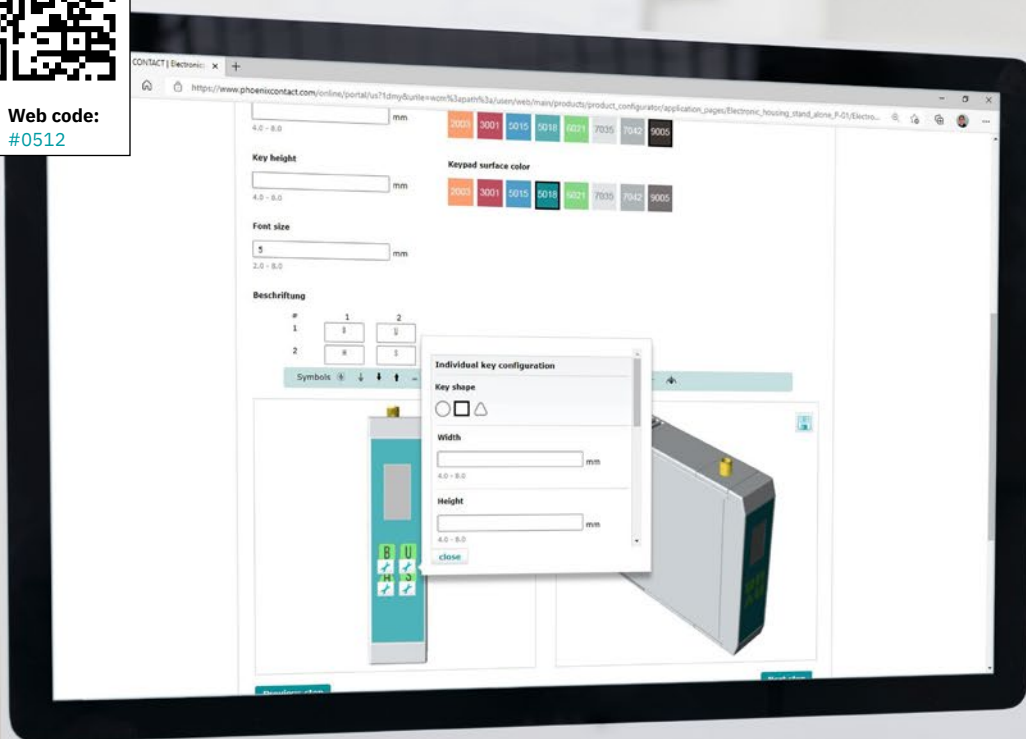
Brilliant colors for large or multi-colored print images



Online tools for customization

Intelligent combinatorics, interactive component selection, and real-time visualization in 3D – put together your electronics housings in just a few steps with the new online configurator and directly customize your selection to suit your needs.

A digital ICS cover designer and the customized design of membrane keypads for the ICS and BC families offer extensive options for designing housings and accessories according to your specific requirements quickly and easily online.



Your advantages at a glance



The product you want in just a few clicks

Intuitive operation for a quick and individual result.



Customized solutions

Model the ICS cover according to your requirements.



Freedom of design

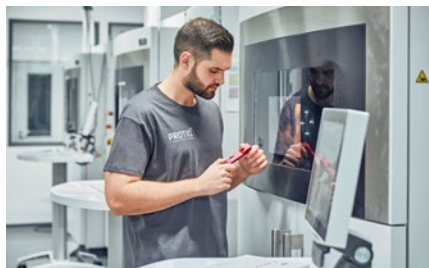
The shape of the keys, colors, and marking of the membrane keypad can be freely selected.

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, HCS, and BC housing series

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



1. Select the housing version



2. Customize the membrane keypad



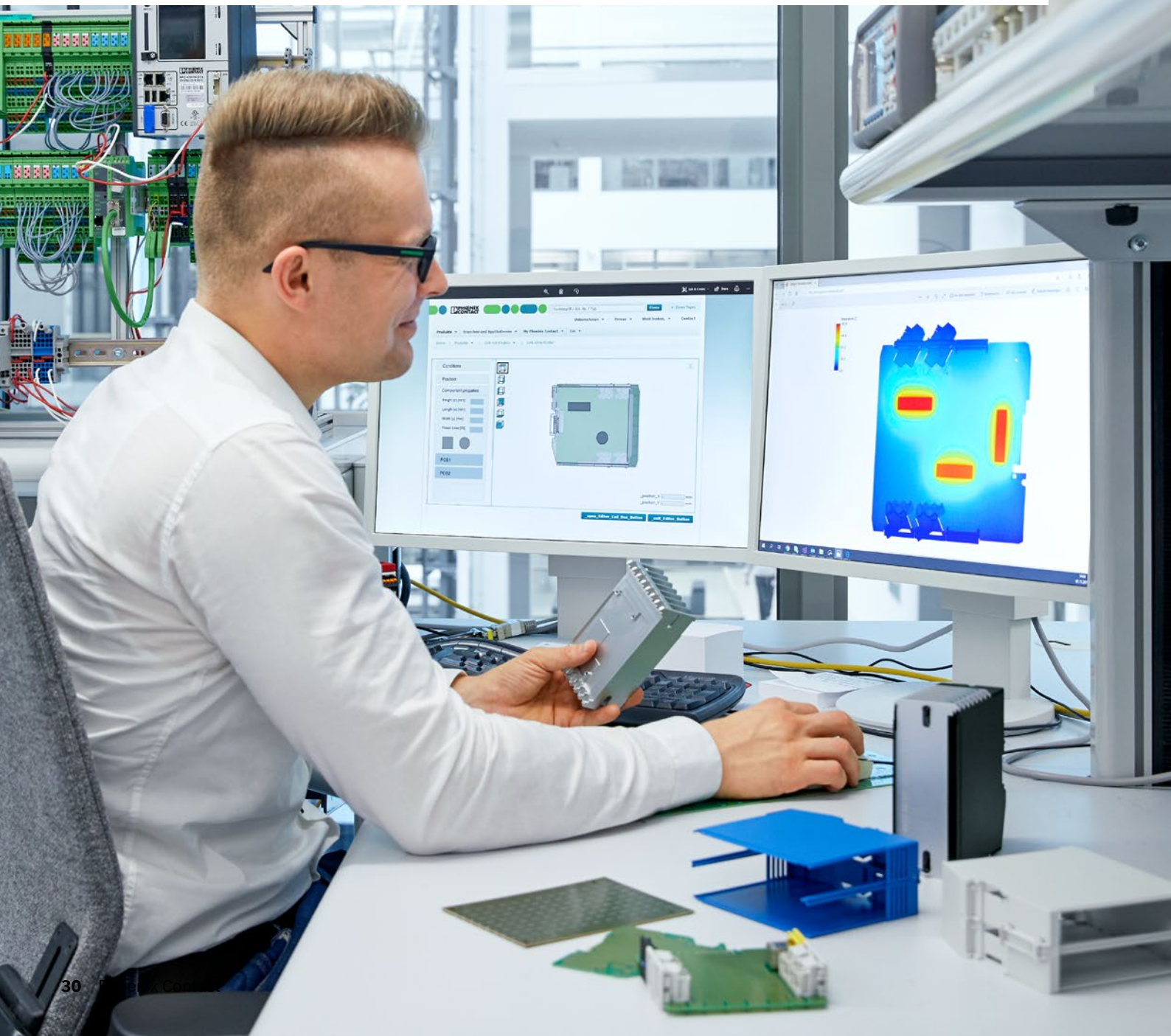
3. Request quotes with the generated solution ID

Advice and service

3

Thermal management during device development

Miniaturization leads to a higher packing density in the electronics, which in turn requires efficient cooling. We provide an intuitive, easy-to-use web-based platform for assessing the thermal behavior of electronic devices right in the early stages of development. In addition, we provide you with a customized consultation. You will receive an application-specific simulation and a recommendation for the ideal housing selection, heatsink design, and arrangement.

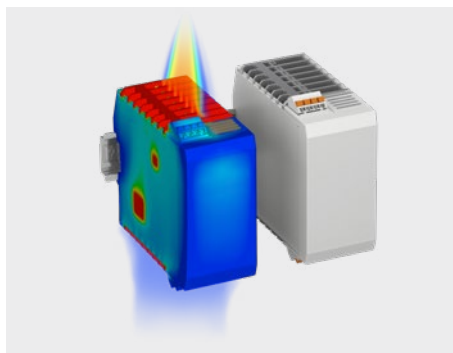


Your advantages at a glance



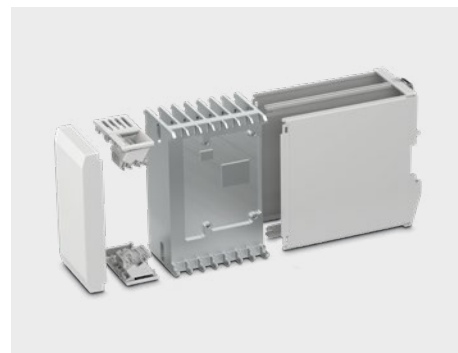
Services in all development phases

From simple estimates of the power dissipation to detailed analysis of the PCB's thermal performance.



Thermal analysis

Optimize your application based on the general thermal conditions.



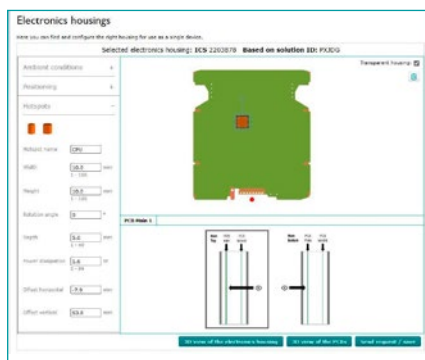
Tailored heatsinks

Reliable heat dissipation through customized heatsinks integrated into the housings.

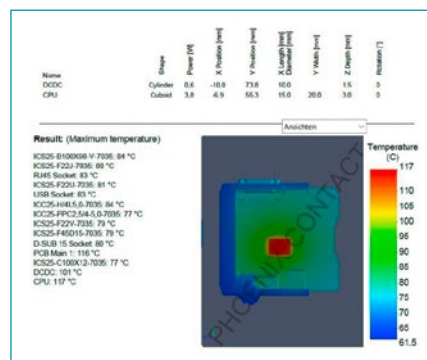
Simulate and analyze your application online



Select and configure your housing family.
After putting it together, you can start the
thermal simulation.



You can specify the general conditions for the device and define and position the hot spots.

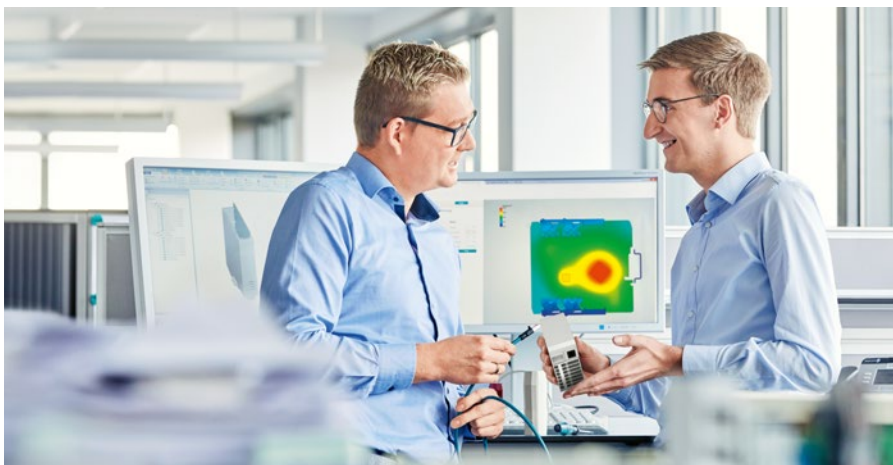


After the simulation, you will receive a report of the results as a 3D PDF file.

Design

In addition to the online check, Phoenix Contact offers tailored thermal simulation services:

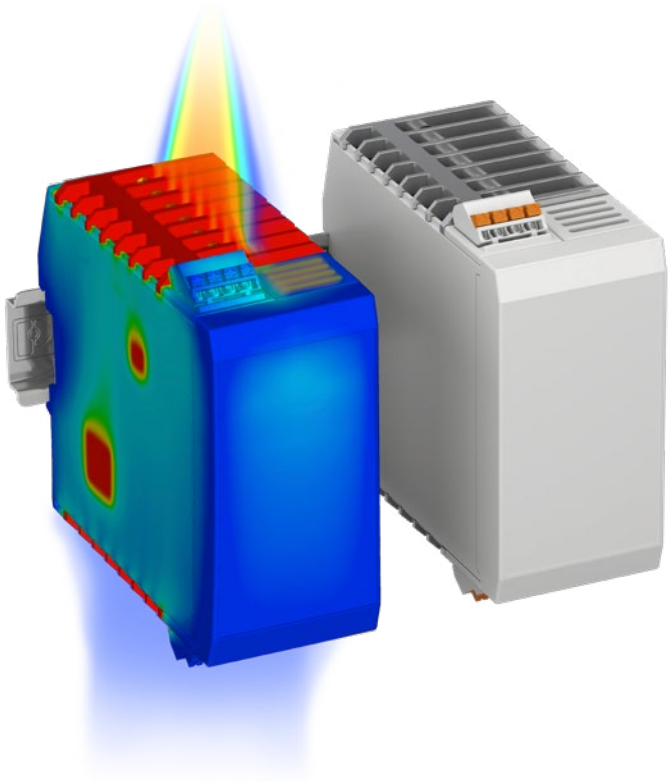
- Detailed thermal simulation with visualization, power dissipation curve, and suggestions for optimization
- Heatsink engineering and design-in
- Training and specialist presentation on thermal management in device development



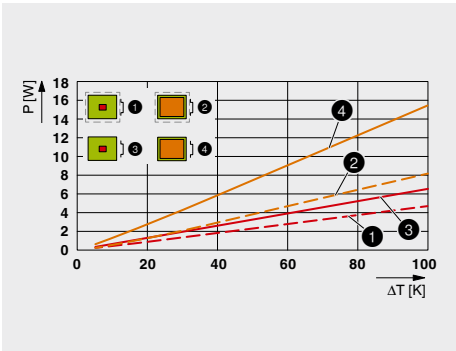
Thermal management during device development

Avoid device overheating

Thermal management for electronics housings has become an important discipline in the thermal design of devices. Passive heatsinks for electronics housings allow the finished devices to be used even in thermally demanding applications. By performing extensive thermal simulations, Phoenix Contact also supports you in optimizing your PCB layout.

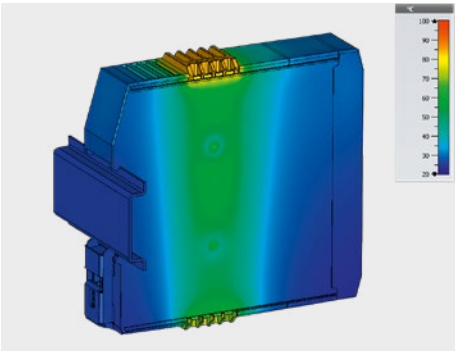


Services in all development phases



Derating diagrams for an initial estimation of the maximum power that can be dissipated

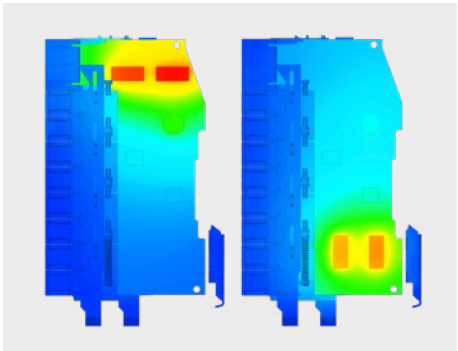
To carry out an initial check of the maximum power that can be dissipated from your housing application, we offer you derating diagrams tailored to the housing. You can localize the subsequent operating point and read off the maximum power dissipation accordingly.



Online simulation for initial power dissipation assessment

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

First, use our electronics housing configurator to configure your housing to suit your application. Next, position hot spots on your PCB and define the thermal boundary conditions of your application. You will receive your application-specific results directly by email.



Detailed simulation for the thermal analysis of your application

Based on our online simulation, we will provide you with a very precise thermal analysis of your application with our simulation service. Various component configurations on your printed circuit board are first simulated and evaluated. If you choose to integrate heatsinks into your device at a later date, the application will be perfectly thermally tuned via simulations to ensure that it can be used perfectly under the given boundary conditions.

Optimum heat management with tailored heatsinks



Heatsinks tailored to the housings

The passive aluminum heatsinks are perfectly tailored to the geometric conditions of the housing system. They provide optimum cooling in the smallest possible space.



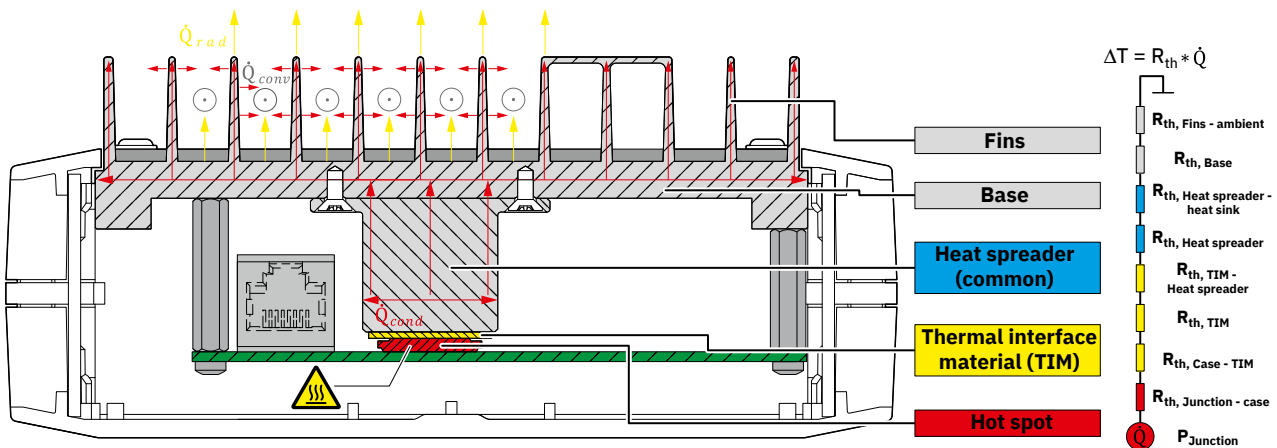
Connection of various component heights

The optimum thermal connection of components in various heights and sizes is implemented by individual adjustments of the heatsink. This is usually done by a milling operation on the heatsink.



Targeted heat dissipation control through heatsinks

The integrated heatsinks from Phoenix Contact dissipate heat from the hotspot by means of heat conduction via thermal interface materials (TIM). The heatsink releases this heat in the form of radiant energy and via convection between the slats to the environment. The stack effect is utilized, during which the heated air rises and is displaced by cold air.



The thermal path in the electronics housing application

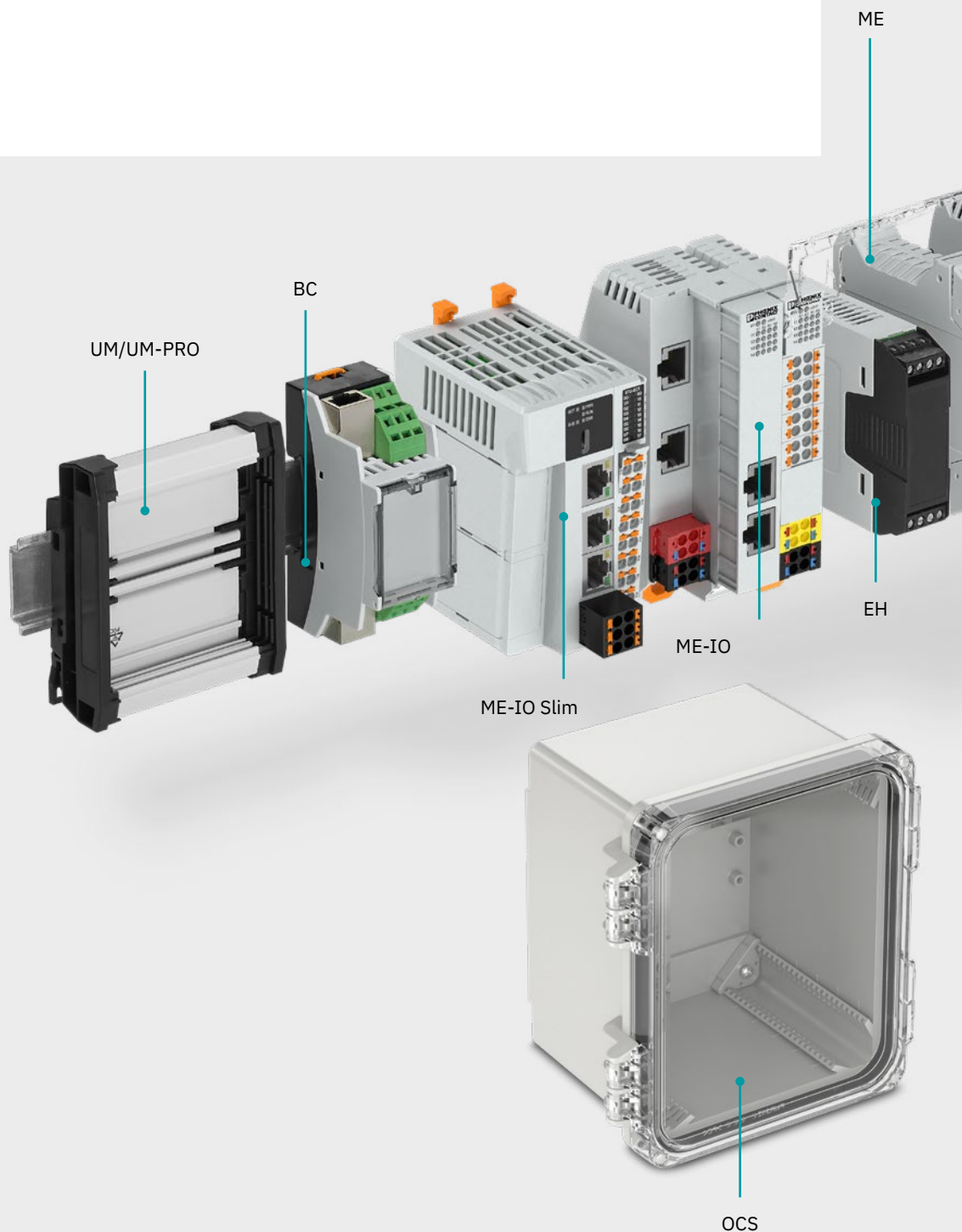
The component that heats strongly (the hotspot) is connected to the heatsink by thermal interface material (TIM). The aim is to generate optimum heat transfer between the component and the heatsink. Different types of TIM enable the implementation of different thermal load profiles. The power dissipation is transferred to the heatsink by means of heat dissipation and is distributed over a large area and dissipated from the system. The energy is released through radiation and free convection. An impermissibly high level of heat can be released from the system

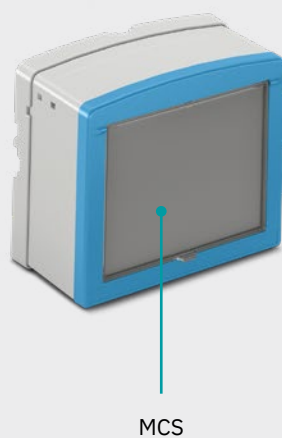
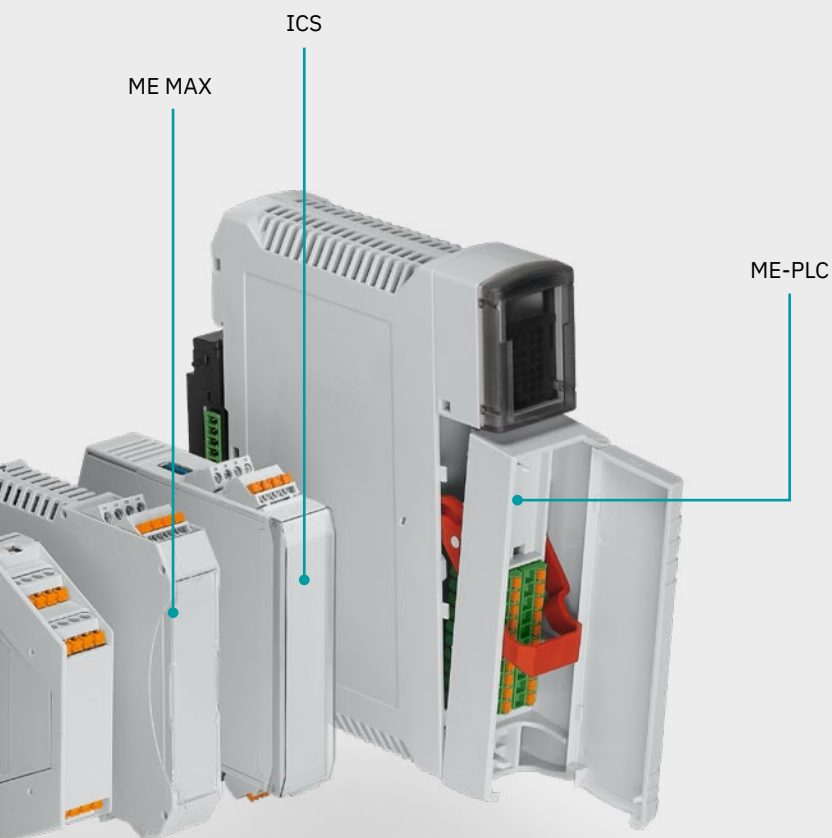
to the environment. The stack effect between the heatsink ribs also supports heat dissipation. In the case of the UCS housing system, optionally inserted heat spreaders can also bridge larger distances between the component to be cooled and the heatsink.

Configuration pages

4

To customize your design, you can use the configuration pages to configure your own custom housing. Here, each product family with its own special features offers a selection of components and accessories. You can also use the drag-and-drop function on our website to help you complete the configuration digitally.





Find out more with the web code

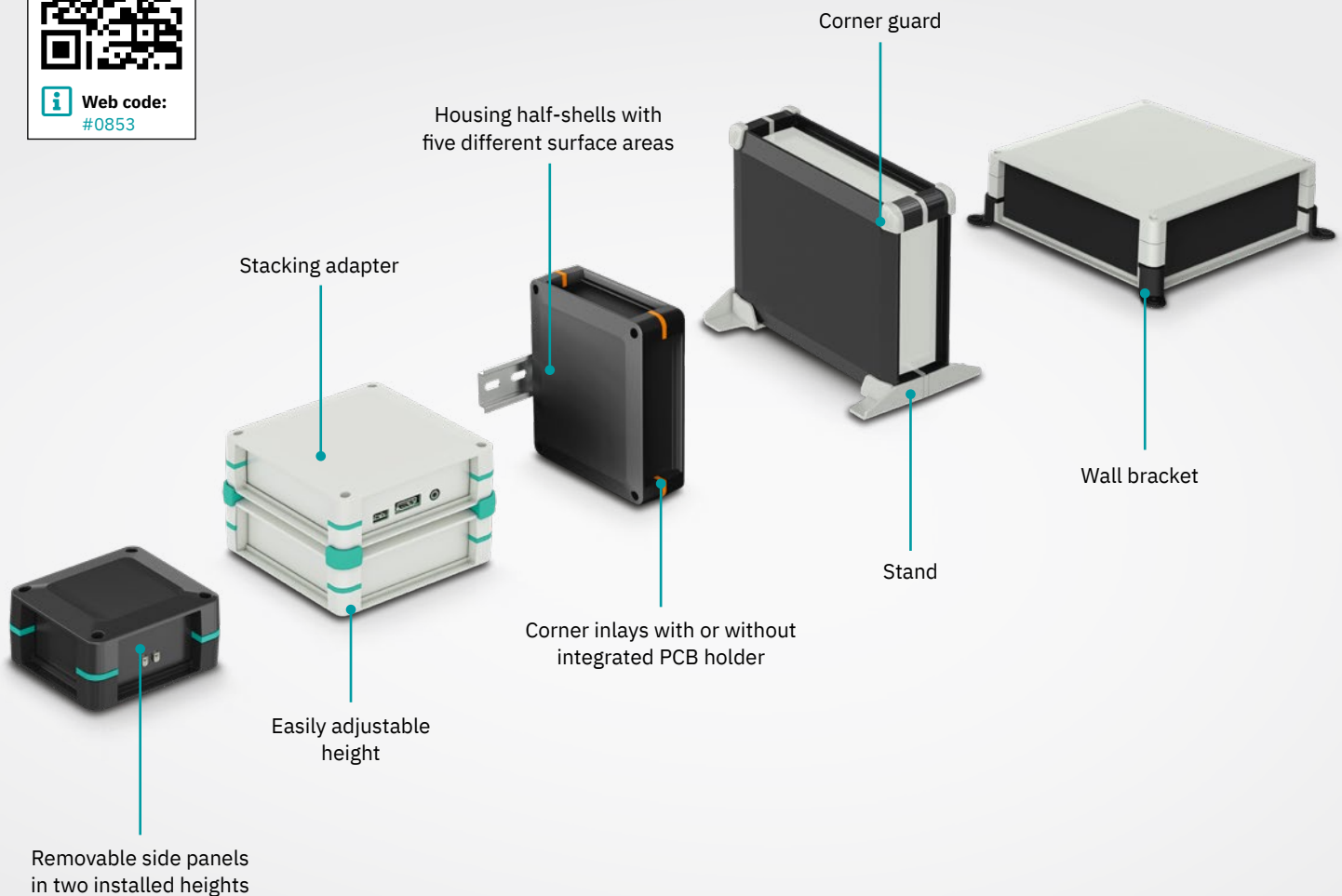
For detailed information, use the web codes provided in this brochure. Simply enter # and the four-digit number in the search field on our website.

 **Web code: #1234** (example)

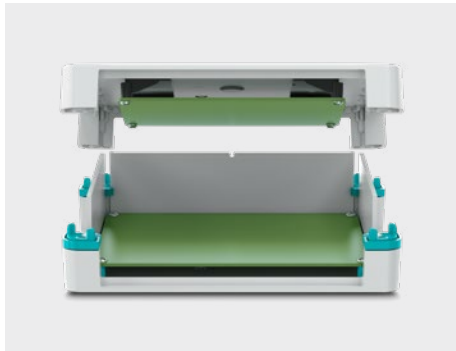
Or use the direct link:
phoenixcontact.com/webcode/#1234

UCS universal housings for embedded systems

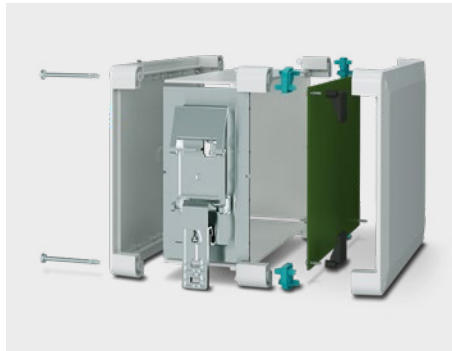
The universal housings from the UCS series are the ideal solution for embedded systems. The IP40 housings reliably protect PCBs in a standard form factor or your custom-designed PCB from external influences. Removable side panels allow integration of any connection technology and modular housing solutions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



Your advantages



Integrated or flexible PCB mounting for variable electronics solutions.



Even greater versatility due to DIN rail adapter and other accessories.



Multifunctional use:
On the wall, on the wall outlet box, and in accordance with the VESA standard.

Configure your desired product

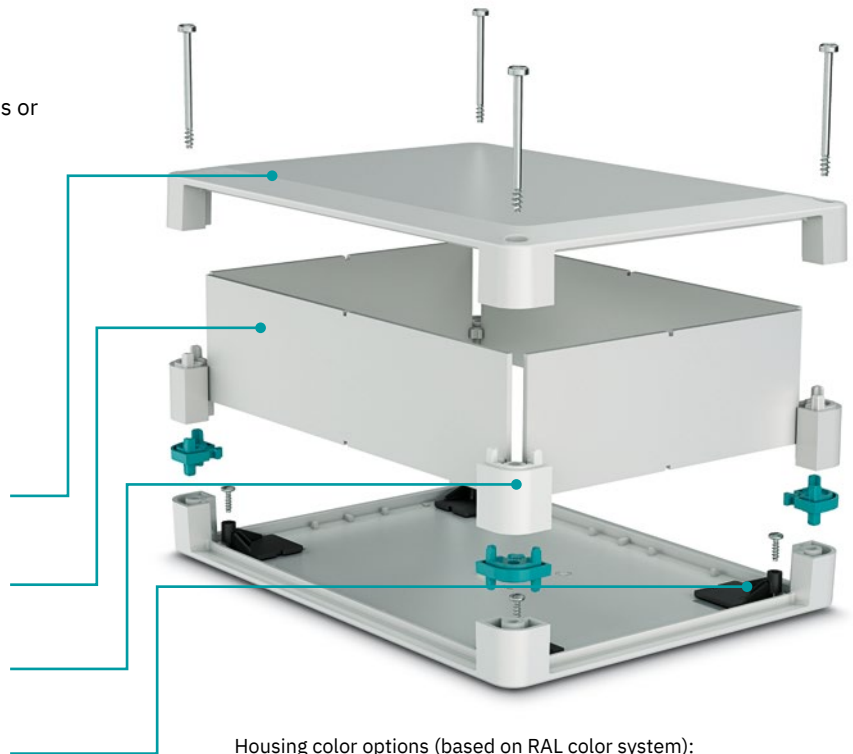
Version 1 – complete housing (pages 38 to 41)

- 1 Select the maximum PCB dimensions or form factor
- 2 Select the depth and color of the complete housing
- 3 Select accessories (pages 40 to 41)

or

Version 2 – custom configuration (pages 42 to 43)

- 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 inlays and accessories



Housing color options (based on RAL color system):

■ 7035 ■ 9005

Corner inlays:

■ 7035 ■ 5018 ■ 9005 ■ 3001 ■ 5015 ■ 2003
■ 5010 ■ 1018

Other colors on request.

UCS universal housings are also available in Raspberry Pi versions, see page 85.

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

Go directly to the online configurator

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

 Web code: #0512

UCS series configuration overview (version 1 – complete housing)

1 PCB mounting / form factor		2 Complete housing			
					
			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 due to 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 aforementioned 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 with 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 Accessories¹⁾

						
	Description	Type	Item no.	Color	Depth 47 mm	Depth 67 mm
					UCS 87-87-F ...	UCS 87-87-H ...
	Adapter for attaching the UCS housing to the wall, to a VESA bracket frame, or to a 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. Used instead of 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. Latching 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 respectively.
Two UCS CP ... are required to cover all screw holes.

²⁾ Brackets for VESA 75/100 and 100/200 applications; for wall outlet boxes with 60 mm diameter; can also be used in conjunction with HS.../ type monitor brackets (more information starting on page 196).

								
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 ...	UCS 125-87-H ...	UCS 145-125-F ...	UCS 145-125-H ...	UCS 195-145-F ...	UCS 195-145-H ...	UCS 237-195-F ...	UCS 237-195-H ...	UCS 125-87 ... with 2.4" touch display
•	•							•
		•	•					
				•	•			
						•	•	
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
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•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•
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	•		•					
		•		•				
			•		•			

³⁾ UCS WM-B ... wall bracket only in conjunction with UCS ..., GD ... versions.

UCS series configuration overview (version 2 – custom configuration)

2 Side panels¹⁾

	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 adapter (needed in conjunction with 67 mm deep side panels)

	Description	Type	Item no.	Color
	4 corner height adapters with screws	UCS HAC 7035	2203399	Light gray (RAL 7035)
		UCS HAC 9005	2203400	Jet black (RAL 9005)

4 Corner inlays and accessories

	Description	Type	Item no.	Color
	4 corner inlays 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	1222469	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 inlays 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	1222462	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...: Pcs./Pkt. = 20, all other UCS SW...: Pcs./Pkt. = 10
Pcs./Pkt. = packing unit

²⁾ Anodized

1 Housing half-shells⁴⁾

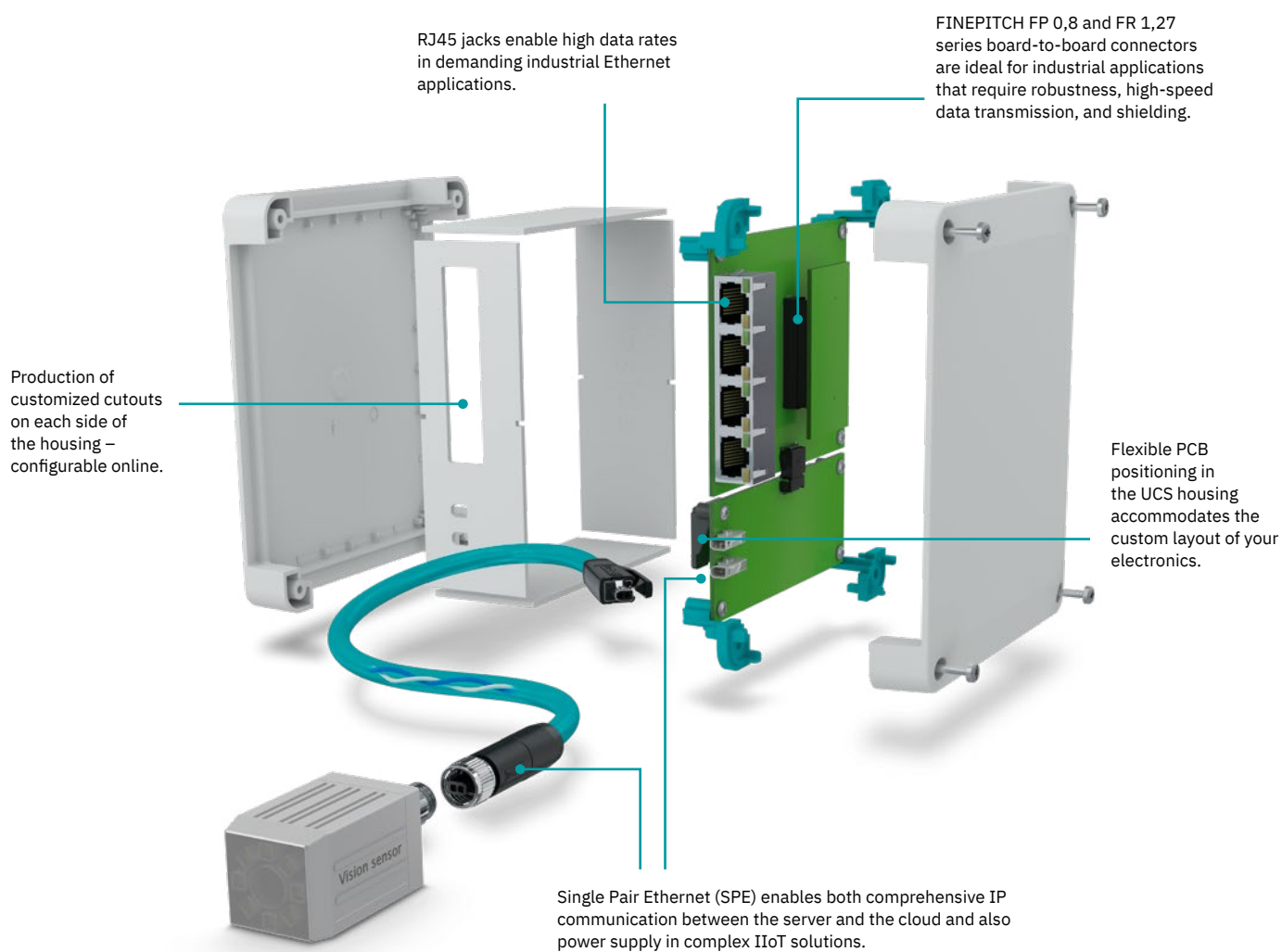
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UCS series configuration overview

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.



Find out more about Single Pair Ethernet:

 **Web code: #2240**

Corresponding connection technology

FP 0,8 unshielded (example = 12-pos.)			Web code: #3491	
				
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			

FR 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.	1373827	1377297	1374027	1337010
Type	FR 1,27/ 12-MV 1,75	FR 1,27/ 12-MH	FR 1,27/ 12-FV 6,25	FR 1,27/ 12-FH
Soldering process	SMD			

RJ45				
RJ45 INDUSTRIAL PCB jacks for industrial device connection				
 Web code: #2059	Soldering process	Orientation	Note	Item no.
	Wave / THR	90° horizontal	Housing shield springs, LED	1099281
		180° vertical	Without LED, short solder contacts	1321106
RJ45 single-port PCB jacks for industrial device connection				
 Web code: #2341	Soldering process	Orientation	Note	Item no.
	SMD	90° horizontal	Locking clip at bottom, without LED	1149874
RJ45 multi-port PCB jacks for industrial device connection				
 Web code: #2341	Soldering process	Orientation	Note	Item no.
	Wave / THR	90° horizontal	2 RJ45 ports, housing shield springs, LED, short solder contacts	1337254

Corresponding connection technology

Coaxial				
Coaxial PCB connectors for industrial device connection				
 Web code: #2890	Soldering process	Orientation	Note	Item no.
	Wave	90° bulkhead	SMA	1340153

D-SUB			
D-SUB contact inserts for industrial device connection			
 Web code: #0340	Type	Note	Item no.
	D-SUB connector	PCB connection with angled solder pins and solder plate, 2.5 mm hole, housing size: 1 (25 mm)	1654785
	D-SUB female		1654798

USB				
USB device connectors for industrial device connection				
 Web code: #2888	Soldering process	Orientation	Note	Item no.
	Wave	90° horizontal	USB 2.0, USB type A	1332630
	SMD	180° vertical	USB 3.2 Gen. 2, USB type C	1332645

HDMI				
HDMI device connectors for industrial device connection				
 Web code: #2889	Soldering process	Orientation	Note	Item no.
	SMD	90° horizontal	HDMI 2.0, HDMI type A	1332071

Corresponding connection technology

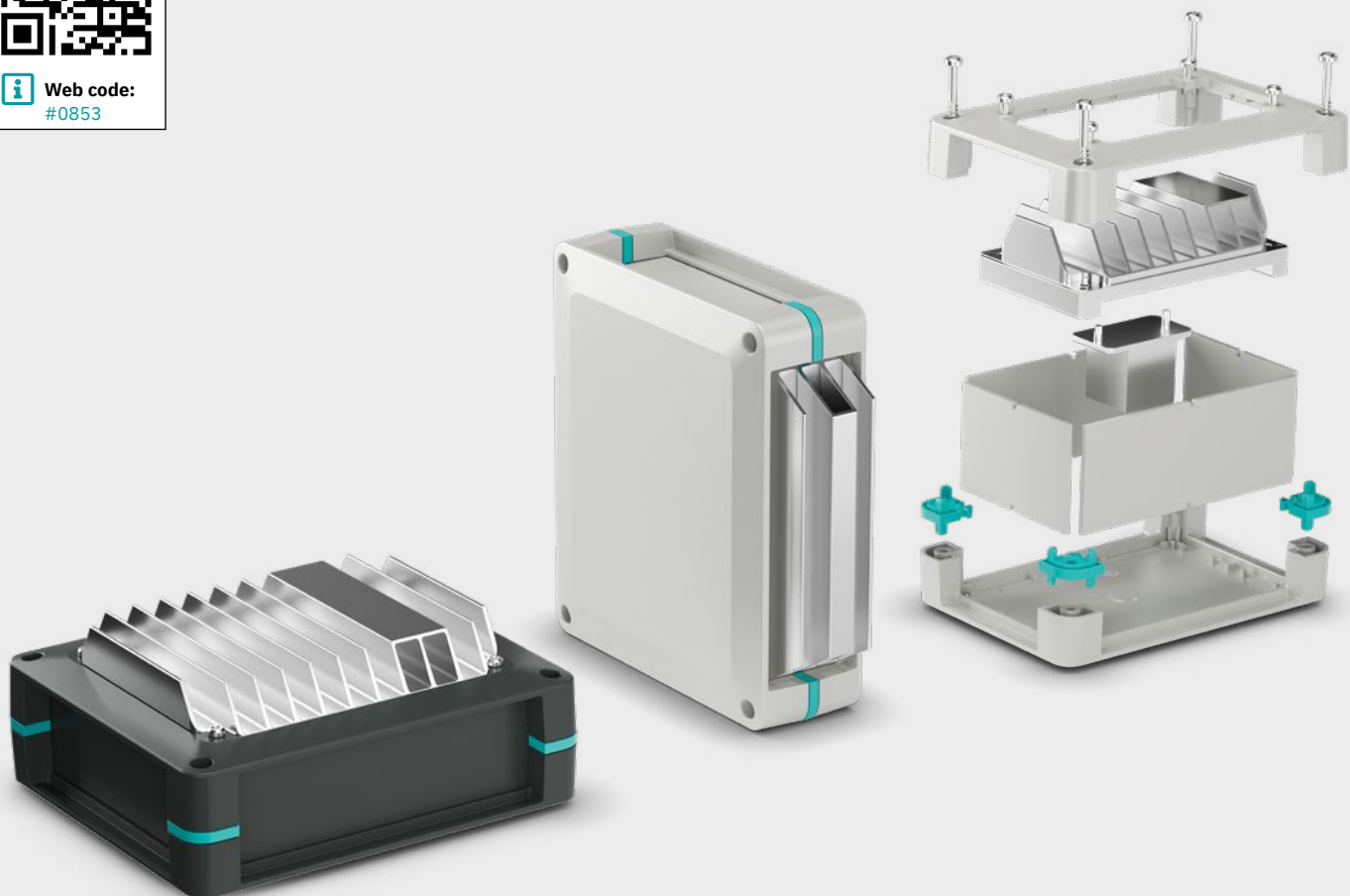
Fiber optics				
FO transceivers for industrial device connection				
	Web code: #2893	Type	Wavelength	Note
		SFP+	850 nm	Temperature range: -40°C ... +85°C
			1310 nm	Temperature range: -40°C ... +85°C
Cages and PCB connectors for industrial device connection				
	Web code: #2893	Type	Module slots	Note
		SFP/SFP+	2	Mounting: Press-in
Single Pair Ethernet				
SPE IP20 PCB connectors for industrial device connection				
	Web code: #2341	Soldering process	Orientation	Note
		Wave / THR	180° vertical	Pin contact, without LED



UCS housings for smart devices in industrial digitalization

UCS housings for embedded systems with heatsinks and thermal simulation

Embedded systems are becoming increasingly more compact and powerful. This increase in performance inevitably causes a thermal load on the devices. An intuitive web-based platform makes it easier to assess this load in the early stages of development. With specially adapted heat sinks and heat spreaders, you can design products that meet the requirements of a state-of-the-art device.

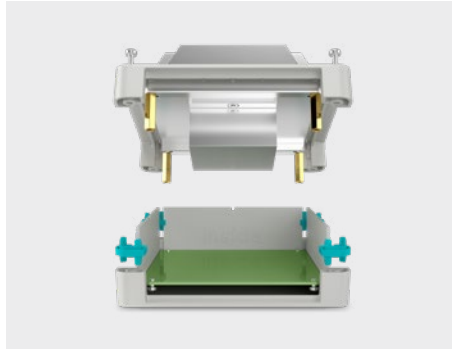


Your advantages



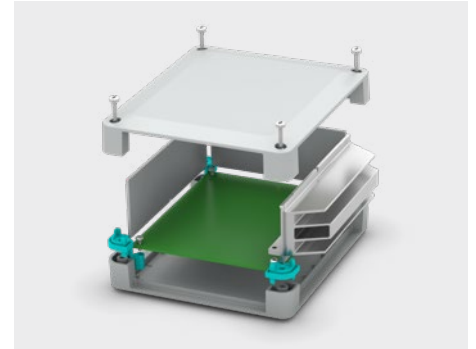
Rapid development

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



Fast heat dissipation

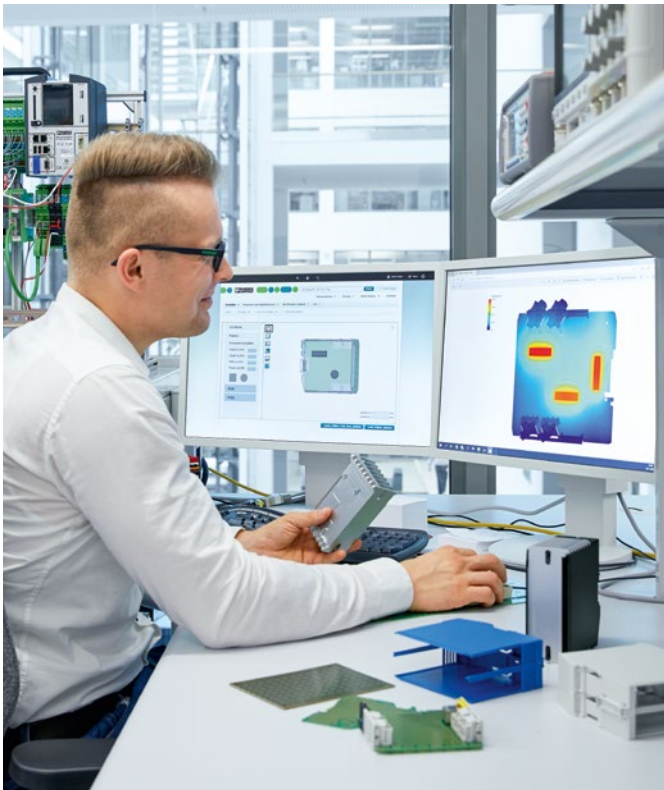
Customer-specific heatsink/heat spreader combinations ensure reliable heat dissipation.



Special solutions

Heatsink as a side panel especially for upright mounted components.

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, 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 email.

Go directly to the online configurator

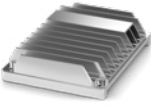
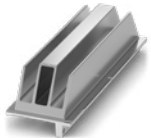
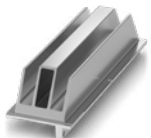
Simply enter the web code into the search field on our website.

 Web code: #0512

Contact us at:

Email: housing-thermal-management@phoenixcontact.com

UCS heatsink solutions configuration overview

UCS heatsink solutions							
	Type	Cooling elements					
	Description	Type	Item no.	Length [mm]	Width [mm]	Depth [mm]	Use
	Heatsink for integration in UCS half-shells	UCS HS-HH 125-87 AL	1481697	56.8	94.8	28	UCS 125-87...
							UCS 145-125...
							UCS 195-145...
							UCS 237-195...
	Heatsink for integration in UCS half-shells	UCS HS-HH 145-125 AL	1481698	94.8	114.8	28	UCS 145-125...
							UCS 195-145...
							UCS 237-195...
	Heatsink designed as a side panel element	UCS HS-SW 125-F AL	1481699	96	40.1	35.1	UCS 125-87-F...
							UCS 145-125-F...
	Heatsink designed as a side panel element	UCS HS-SW 145-F AL	1481701	116	40.1	35.1	UCS 145-125-F...
							UCS 195-145-F...
	Heat spreader for connecting the hot spot to the UCS heatsink	UCS HSP 22-25 AL	1481702	22	39	25	UCS HS-HH 125-87 AL
							UCS HS-HH 145-125 AL
	Heat spreader for connecting the hot spot to the UCS heatsink	UCS HSP 50-25 AL	1481703	50	67	25	UCS HS-HH 145-125 AL
	Preassembled heatsink/heat spreader combination and UCS half shell	UCS HH-HSAS1 125-87 7035	1481707	125	87	48	UCS 125-87...7035
	Preassembled heatsink/heat spreader combination and UCS half shell	UCS HH-HSAS2 145-125 9005	1481709	145	125	48	UCS 145-125...9005

UCS heatsink solutions

	Type	Cooling elements					
	Description	Type	Item no.	Length [mm]	Width [mm]	Depth [mm]	Use
	Housing half-shell for accommodating a heatsink	UCS HH-HS 125-87 7035	1494976	125	87	21.75	UCS HS-HH 125-87 AL
	Housing half-shell for accommodating a heatsink	UCS HH-HS 125-87 9005	1494977	125	87	21.75	UCS HS-HH 125-87 AL
	Housing half-shell for accommodating a heatsink	UCS HH-HS 145-125 7035	1494978	145	125	21.75	UCS HS-HH 145-125 AL
	Housing half-shell for accommodating a heatsink	UCS HH-HS 145-125 9005	1494981	145	125	21.75	UCS HS-HH 145-125 AL
	Spacer bolt for fixing the PCB to the heatsink, M2.5 thread, Pcs./Pkt.: 20 pcs.	UCS SB M2,5X5	1494983	5			UCS HS-HH 125-87 AL; UCS HH-HS 145-125 AL
	Spacer bolt for fixing the PCB to the heatsink, M2.5 thread, Pcs./Pkt.: 20 pcs.	UCS SB M2,5X10	1494984	10			UCS HS-HH 125-87 AL; UCS HH-HS 145-125 AL
	Spacer bolt for fixing the PCB to the heatsink, M2.5 thread, Pcs./Pkt.: 20 pcs.	UCS SB M2,5X15	1494989	15			UCS HS-HH 125-87 AL; UCS HH-HS 145-125 AL
	Spacer bolt for fixing the PCB to the heatsink, M2.5 thread, Pcs./Pkt.: 20 pcs.	UCS SB M2,5X20	1494990	20			UCS HS-HH 125-87 AL; UCS HH-HS 145-125 AL
	Spacer bolt for fixing the PCB to the heatsink, M2.5 thread, Pcs./Pkt.: 20 pcs.	UCS SB M2,5X25	1494992	25			UCS HS-HH 125-87 AL; UCS HH-HS 145-125 AL
	Screw for fixing the PCB to the UCS SB M2,5x... spacer bolt, Pcs./Pkt.: 20 pcs.	UCS SHS M2,5X4	1495002	4			UCS SB M2,5X...

MCS monitoring housings

For sensor and IoT/IIoT applications

The Monitoring Case System (MCS) is ideal for field devices used in sensor technology as well as for IoT and IIoT applications. Featuring IP65/IP67 degree of protection, the housings are suitable for industrial use. Alternatively, an IP40 version is available. Combine standard components, optional accessories, and our comprehensive portfolio of connection technology to create a wide range of solutions for your application.



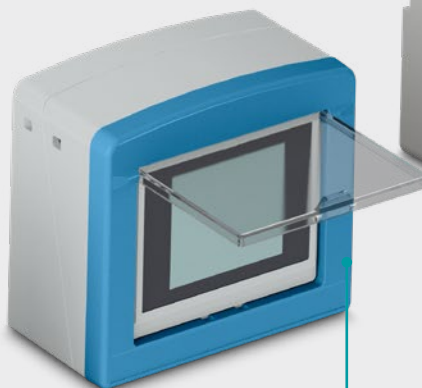
NEW

Optional adapter plate for various forms of mounting

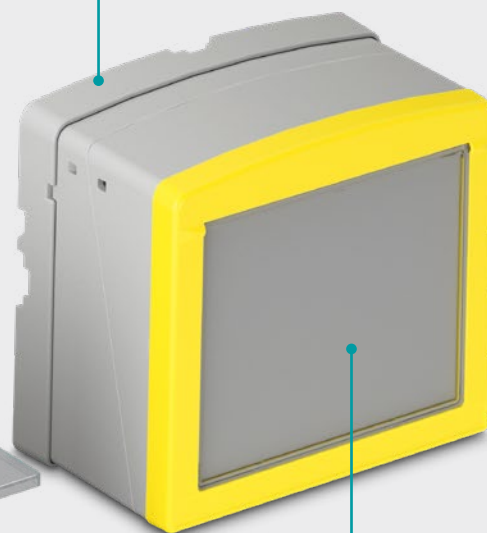
Protection against unauthorized opening with the additional sealing option



Individual processing and printing options



Covers for different applications

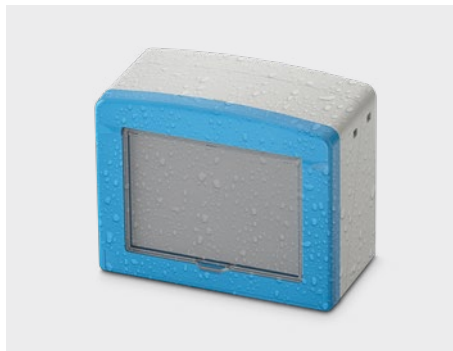


Various sizes and versions

Your advantages



The practical housing design keeps your hands free. In combination with the innovative hinges, the cover and upper housing part remain securely attached to the lower part.

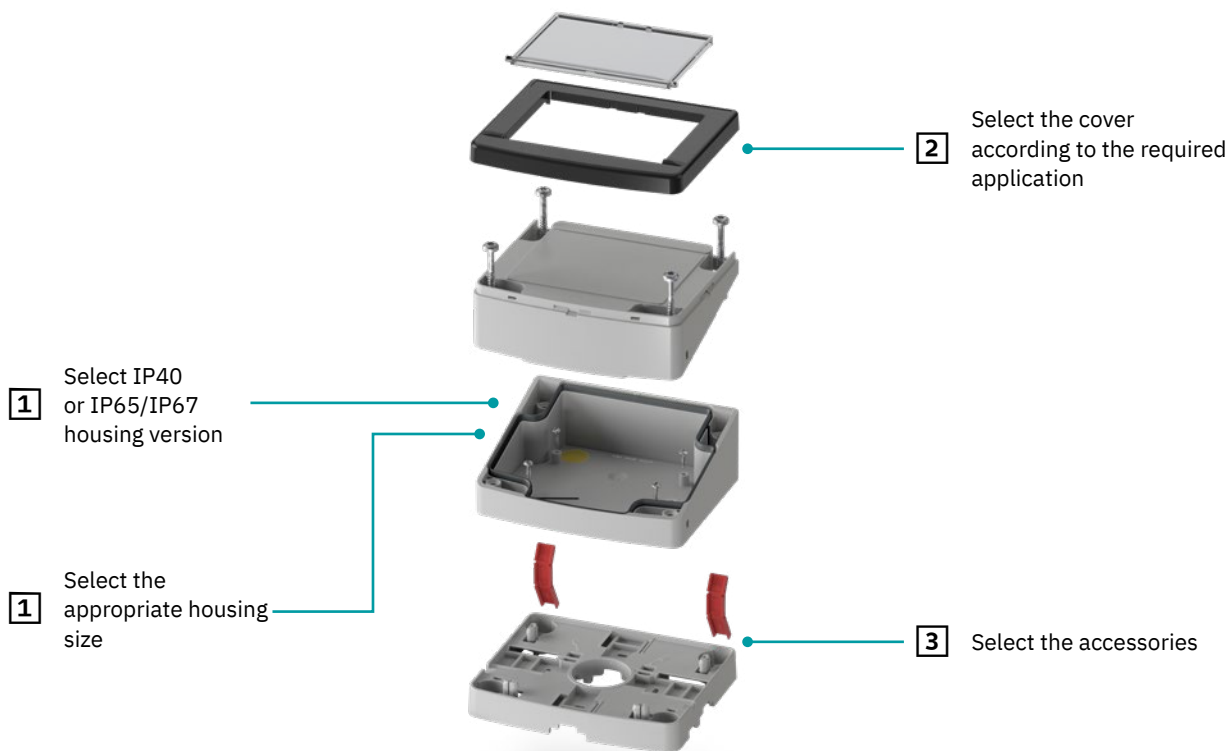


Depending on the version, the electronics housing conforms to IP40 or IP65/IP67. You can therefore use the housing in buildings as well as in industrial environments.



The angled housing edge enables almost horizontal mounting of the PCB. This feature enables the connectors to glide through the holes in the housing. This achieves maximum utilization of the base area.

Configure your desired product



Go directly to the online configurator

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

i Web code: #3462

Housing color options (based on RAL color system):

■ 7035

Frame colors:

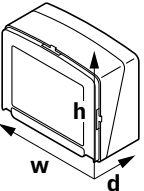
■ 7035 ■ 9005 ■ 5015 ■ 1018

Other colors on request.

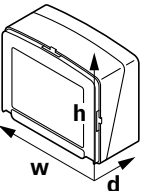
Test the MCS series and get in touch with your sales contact person (sample set: 1666583).

MCS series configuration overview

1 IP40 housing version

			
Width / w [mm]	78	112	156
Height / h [mm]	64	90	127
Depth / d [mm]	42	52	65
Type	MCS-78X64X42-IP40-7035	MCS-112X90X52-IP40-7035	MCS-156X127X65-IP40-7035
Item no.	1523800	1524058	1524052

1 IP65/IP67 housing version

			
Width / w [mm]	78	112	156
Height / h [mm]	64	90	127
Depth / d [mm]	42	52	65
Type	MCS-78X64X42-IP6X-7035	MCS-112X90X52-IP6X-7035	MCS-156X127X65-IP6X-7035
Item no.	1524047	1524044	1524038

Sure to impress at all stages, from installation of the PCB and simple mounting to maintenance of the device

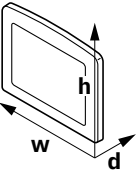
Mounting of the PCB occurs in a nearly horizontal orientation due to the angled housing edge. This feature enables the preassembled connectors to glide through the holes in the housing. The result is maximum utilization of the base area of the housing as the PCB surface.

In practice, the electronics housing impresses with its additional hinges. These hinges are subsequently inserted into the housing and connect the upper housing part and the cover to the lower part. This leaves your hands free for maintenance or installation work. The seal is also connected to the housing in such a way that it cannot be lost.

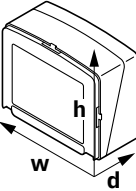


Convenient operation during device installation and maintenance

2 Cover versions

Dimensions	Color	Design	Swivel window	Snap-in window, non-detachable
				
w x h [mm]		MCS-...-C-D-...	MCS-...-C-S-...	MCS-...-C-L-...
78 x 64	 RAL 7035	1524240	1524435	1524411
	 RAL 9005	1524241	1524413	1524414
	 RAL 5015	1524243	1524478	1524693
	 RAL 1018	1524244	1524419	1524422
112 x 90	 RAL 7035	1524256	1524426	1524482
	 RAL 9005	1524257	1524424	1524432
	 RAL 5015	1524260	1524484	1524418
	 RAL 1018	1524261	1524431	1524479
127 x 156	 RAL 7035	1524266	1524438	1524412
	 RAL 9005	1524267	1524474	1524416
	 RAL 5015	1524268	1524477	1524428
	 RAL 1018	1524272	1524476	1524481

3 Accessories

Dimensions	Living hinge	Adapter plate	PCB screws
			
w x h [mm]	MCS-H-40-3031	MCS-...-AP-7035	MCS-S-PCB-2,5X8
78 x 64	1524154	1524155	1524149
112 x 90	1524154	1524160	1524149
127 x 156	1524154	1524150	1524149

MCS series configuration overview

MCS housings for sensor and IoT/IIoT applications

The housings from the MCS series are ideal for accommodating various connectors, especially with a higher IP degree of protection. The individual cutouts in the tall side panel allow the connectors to be sealed securely.

This makes the entire housing system particularly suitable for robust industrial applications. The integration of display and operating elements, such as light guides or touch displays, is also possible.

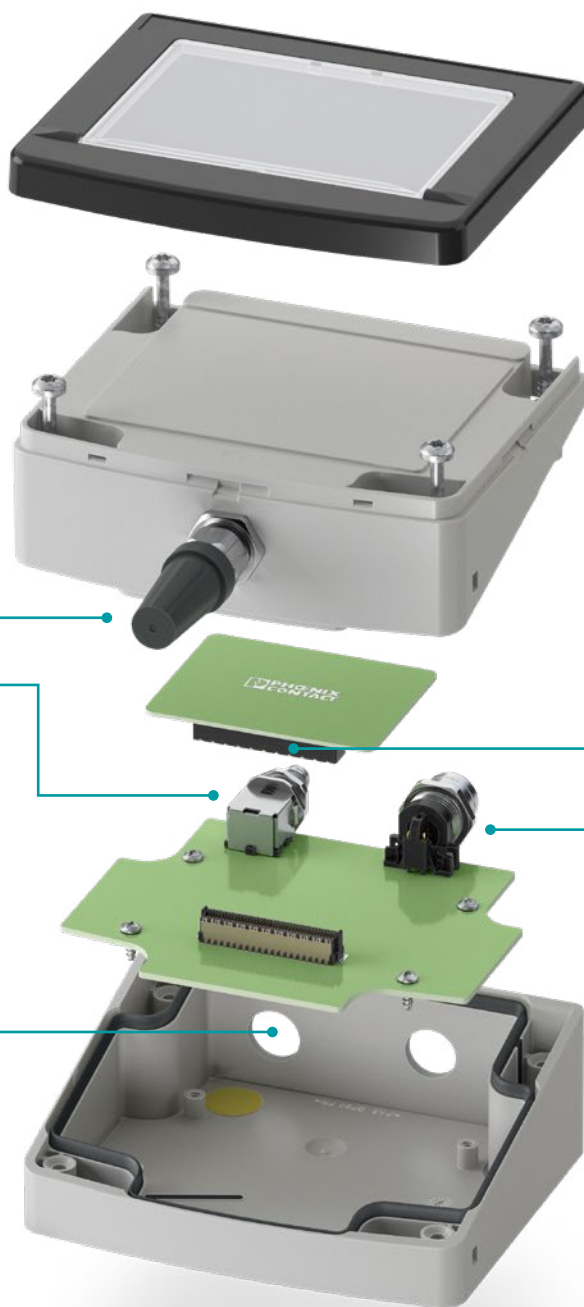
Ready to receive at all times: A wide range of omnidirectional antennas for mobile applications and directional antennas for bridging large distances support you in your field of application.

With Single Pair Ethernet (SPE), the established Ethernet protocol is advancing into the final automation levels and forms the basis for future-proof networking from the sensor to the cloud.

Production of customized cutouts on the tall side panel – ideal for connection technology in the high IP range.

With FR series board-to-board connectors with 1.27 mm pitch or FP with 0.8 mm pitch, you will be prepared for future industrial requirements. Benefit from high-speed data transmission and efficient design-in.

Phoenix Contact provides metric circular connectors in numerous designs for industrial automation. The wide-ranging portfolio offers versatile solutions for transmitting signals, data, and power.



MCS series configuration overview

Cable glands				
				
Description	M12 panel feed-through	M16 panel feed-through		
Item no.	1417652	1424470		
Type	G-INS-M12-S68N-PNES-LG	G-INS-M16-T68N-PNES-LG		
IP protection	IP66/IP68	IP66/IP68		
Locking	M12	M16		

M8 and M12				
				
Description	M8 PCB connector	M8/M10 PCB connector	M12 PCB connector	M12 PCB connector
Item no.	1424244	1424239	1694240	1436974
Type	SACC-DSI-M8MS-6CON-M8-L90 SH	SACC-DSI-M8FS-5CON-M10-L90 DN	SACC-DSIV-M12FS-5CON-L 90	SACC-DSIV-FS-8CON-L90 SCO
Soldering process	Solder pins	Solder pins	Solder pins	Solder pins
Orientation	90°	90°	90°	90°
IP protection	IP67	IP67	IP67	IP67
Locking	M8	M8	M12	M12

Single Pair Ethernet				
				
Description	SPE M12 single device connector	SPE M12 single device connector	SPE M12 PCB connector	
Item no.	1107993	1107999	1363338	
Type	SACC-BP-M-M12-SMD PP	SACC-FP-M-M12-SMD PP	SPE-T1-M12MRM-90	
Soldering process	-	-	THR	
Orientation	-	-	90°	
IP protection	IP67	IP67	See housing screw connections	
Locking	M12 PUSH-PULL	M12 PUSH-PULL	-	

SPE and Ethernet				
				
Description	SPE M12 single device connector	SPE M12 single device connector	SPE M12 PCB connector	Ethernet M12 PCB connector
Item no.	1027662	1027678	1363341	1436592
Type	SACC-BP-F-M12-THR PP	SACC-FP-F-M12-THR PP	SPE-T1-M12FRF-90	SACC-DSIV-MSD-4CON-L90 SCO
Soldering process	-	-	THR	Solder pins
Orientation	-	-	90°	90°
IP protection	IP67	IP67	See housing screw connections	IP67
Locking	M12 PUSH-PULL	M12 PUSH-PULL	-	M12 SPEEDCON

ECS outdoor housings

For harsh 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. With up to IP69 degree of protection and a wide temperature range, the housings made from UV-stabilized polycarbonate are ideal for challenging ambient conditions. This also includes marine or offshore use, for which the ECS housings are also approved.



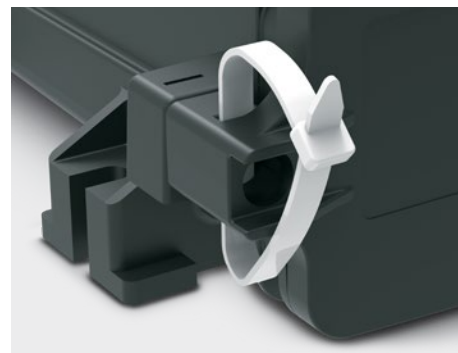
Your advantages



Integrated interlock to protect against unintentional release of the PCB.



Optional pressure compensation membrane for ventilated housing versions, premounted.

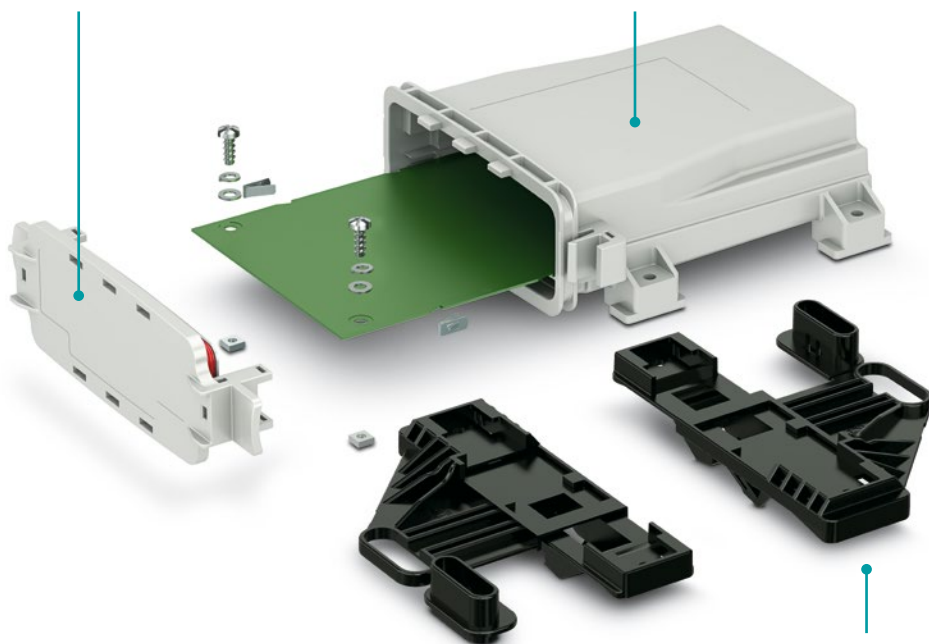


Protection against tampering with a simple seal.

Configure your desired product

2 Choose the front panel

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.

 **Web code:** #0512

Housing color options (based on RAL color system):

■ 9005 ■ 7042

Other colors on request.

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

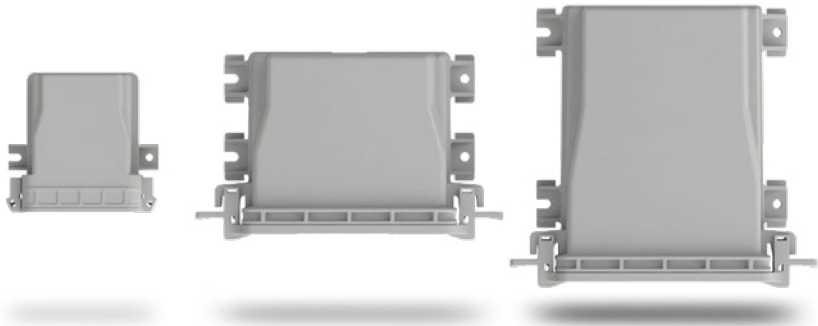
ECS series configuration overview

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

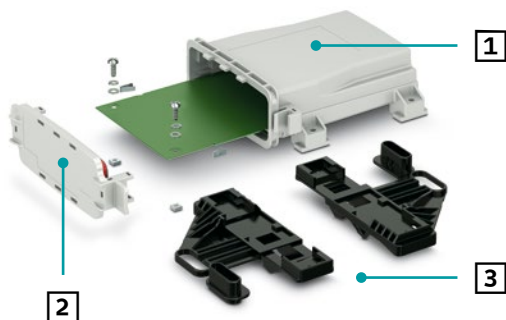
Housings with front panel without connection technology satisfy the IP65/IP68 and IP69 requirements.



2 Front panel

	Design	Dimensions (W x H x D) [mm]	Connection	Color	Item no.	Type
	Snap-in locking	196 x 34 x 62	None	Black Gray	2230004 1050386	ECS-P-122X169-L-UV1-B ECS-P-122X169-L-UV-B GY
	Screw locking mechanism	163 x 30 x 62	None	Black Gray	2230008 1050382	ECS-P-122X169-S-UV1-B ECS-P-122X169-S-UV-B GY
	Snap-in locking	97 x 15 x 42	None	Gray	1186436	ECS-P-64x80-L-UV-B GY
	Screw locking mechanism	97 x 15 x 42	None	Gray	1186435	ECS-P-64x80-S-UV-B GY
	Snap-in locking	196 x 34 x 62	1x M12 nut	Black Gray	2230005 1050385	ECS-P-122X169-L-UV1-1M12 ECS-P-122X169-L-UV- 1M12 GY
			2x 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 mechanism	163 x 30 x 62	1x M12 nut	Black Gray	2230009 1050381	ECS-P-122X169-S-UV1-1M12 ECS-P-122X169-S-UV- 1M12 GY
			2x 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
			1x M12 nut and 1x M12 male	Black	1091841	ECS-P-122X169-S-UV1- 1M1FM12

Configure your
desired product.



Go directly to the online configurator

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

 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 mm 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
	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 Ø9 mm x 16 mm	1400259	SEALING PLUG 9X16 RD
	Screw plug for unused M12 female connectors	1680539	PROT-M12

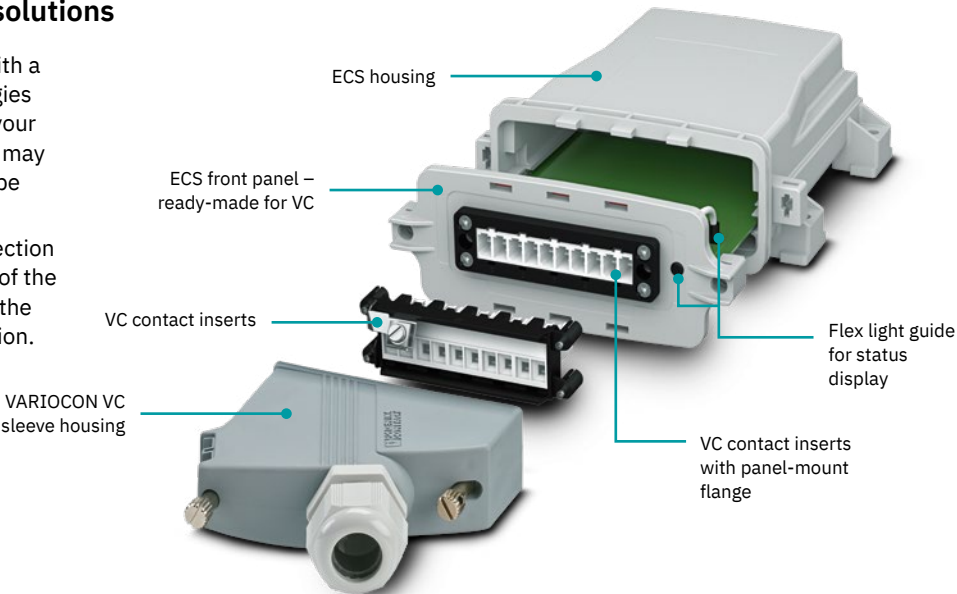
Benefit from ready-made solutions

Ready-made front panels 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 panels with connection technology, the IP protection class of the connection technology determines the protection class of the overall solution.

Find out more about VARIOCON:

 Web code: #0363



Ready-made front panel							
	Design	Dimensions (W x H x D) [mm]	Connection	Components			
					Item no.	Type	Description
	Screw locking mechanism	196 x 34 x 62	2 x cable gland M25 x 1.5 (13 mm ... 18 mm)		1135275	ECS-P-122X169-L-UV1-B M25/M25	Ready-made ECS front panel
					1424472	G-INS-M25-L68N-PNES-LG	M25 cable gland RAL 7035
					1417661	A-INL-M25-P-LG	M25 x 1.5 counter nut RAL 7035
	Screw locking mechanism	196 x 34 x 62	1x VARIOCON 4		1143770	ECS-P-122x169-S-UV1-VC4AML2/6	Ready-made ECS front panel
					1853007	VC-AR4/5M	VC 4 panel-mount frame
					1852862	VC-AF	VC panel-mount flange
					1853531	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	1x SUNCLIX male and 1x SUNCLIX female		1143769	ECS-P-122x169-S-UV1-2PV	Ready-made ECS front panel
					1158451	PV-FT-C3M-C-6-130-RD-00	Photovoltaic connectors
					1158448	PV-FT-C3F-C-6-130-BU-00	Photovoltaic connectors
					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 panel							
	Design	Dimensions (W x H x D) [mm]	Connection	Components			
					Description	Item no.	Type
	Screw locking mechanism	163 x 30 x 62	2x RJ45 jack 1x RJ45 jack		Ready-made ECS front panel	1143740	ECS-P-122x169-S-UV1-2RJ45
					Ready-made ECS front panel	1143761	ECS-P-122x169-S-UV1-1RJ45
					Push-pull panel-mount frame	1658655	VS-08-A-RJ45/LP-1-IP67-BK
					Protective covers	1658066	VS-08-SD-F-BK
					RJ45 jack insert	1653087	VS-08-BU-RJ45-6
					RJ45 connector	1414408	CUC-V06-C1PBK-S/R4CE8:1
					Dust protection	2832991	FL RJ45 PROTECT CAP
					Protective covers	1658066	VS-08-SD-BK
	Screw locking mechanism	163 x 30 x 62	1x PRC connector, 5-pos.		Ready-made ECS front panel	1143768	ECS-P-122x169-S-UV1-1PRC
					Device connector, rear mounting	1409213	PRC 5-FT25-MC6-150
					PCB terminal block	1719228	SPT 5/5-H-7,5-ZB
					Protective cap	1409237	PRC COVER M
					Coupler connector	1017632	PRC 5-FC-FS6 8-21 HR
					Nut for mating connector	1457937	FT NUT M25 BK
					Protective cap	1409236	PRC COVER F

Ready-made front panel							
	Design	Dimensions (W x H x D) [mm]	Connection	Components			
					Description	Item no.	Type
	Screw locking mechanism	163 x 30 x 62	1x D-SUB, 25-pos.		Ready-made ECS front panel	1143766	ECS-P-122x169-S-UV1-1DSUB25
					D-SUB contact insert	1689886	VS-25-BU-DSUB-ER
					D-SUB panel-mount frame	1689750	VS-25-A
					D-SUB sleeve housing	1689792	VS-25-T-2M20
					D-SUB contact insert	1655218	VS-25-ST-DSUB-HD-ER
					D-SUB pressure nut	1652127	VS-M20 (5-13)
					Filler plugs	1679235	Q-PROT 9/11

Connection technology
To view the selection of M12 contact inserts, simply enter the web code #0205 on our website at phoenixcontact.com.

ECS-Ex outdoor housings

For potentially explosive areas

Outdoor housings from 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°C, the housings made from UV-stabilized polycarbonate are ideal for this challenging environment.



Your advantages

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.



Go directly to the online configurator

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



Web code: [#0512](#)

Housings for use in explosive environments

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

¹⁾ Integrated pressure compensation membrane

OCS outdoor housings for autonomous systems

OCS outdoor housings feature a large installation space for device applications subject to extreme ambient conditions. They are both lightweight and durable, and protect your valuable contents from heat, UV radiation, and impact stress (IK 10) up to IP69. As a result, they ensure that mobile and location-independent equipment systems can permanently operate with reliability under adverse conditions.



NEW



Your advantages



Smart versatility

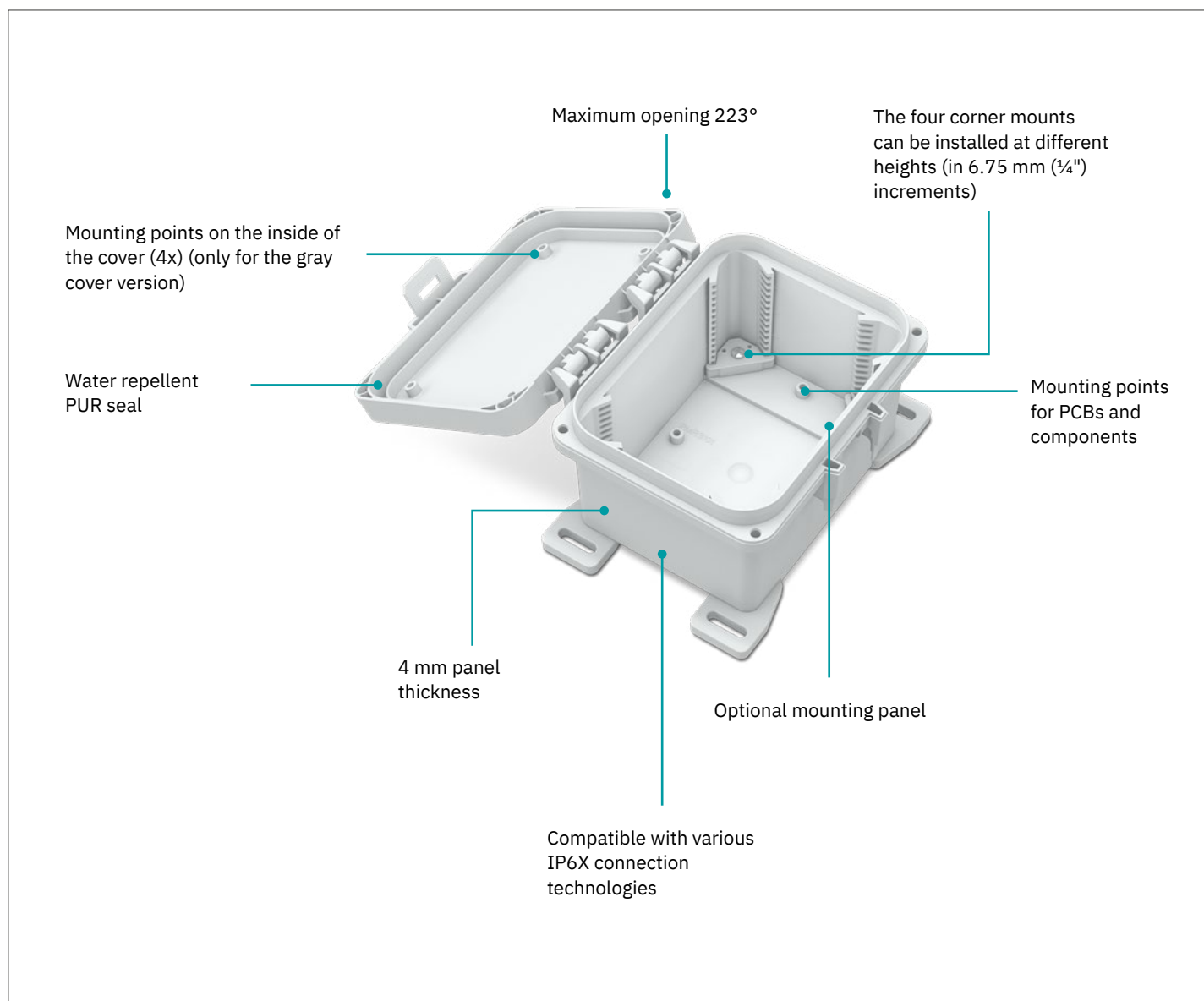
A versatile range of sizes and designs for stand, panel, or mast mounting, made from UV-stabilized polycarbonate.

Integrable PCBs

Multiple PCBs or mounting panels can be mounted in parallel in the housing.

Secure mounting

Different mounting systems are available.



OCS series configuration overview

1 Outdoor housings with swivel cover and snap closure, incl. height adjustable corner mounting, UV-stabilized polycarbonate				
External dimensions (W x H x D)	Design	Cover color	Item no.	Type
204 mm x 223 mm x 134 mm		Light gray (similar to RAL 7035)	1471770	OCS HP 080604 GY7035
		Transparent	1471772	OCS HP 080604 TRANS
257 mm x 276 mm x 185 mm		Light gray (similar to RAL 7035)	1471773	OCS HP 100806 GY7035
		Transparent	1471774	OCS HP 100806 TRANS
308 mm x 326 mm x 185 mm		Light gray (similar to RAL 7035)	1471775	OCS HP 121006 GY7035
		Transparent	1471776	OCS HP 121006 TRANS
358 mm x 377 mm x 185 mm		Light gray (similar to RAL 7035)	1557790	OCS HP 141206 GY7035
		Transparent	1557795	OCS HP 141206 TRANS

1 Outdoor housings with swivel cover and snap closure, incl. height adjustable corner mounting, UV-stabilized polycarbonate

External dimensions (W x H x D)	Design	Cover color	Item no.	Type
410 mm x 429 mm x 228 mm		Light gray (similar to RAL 7035)	1557792	OCS HP 161408 GY7035
		Transparent	1557796	OCS HP 161408 TRANS
463 mm x 482 mm x 286 mm		Light gray (similar to RAL 7035)	1557794	OCS HP 181610 GY7035
		Transparent	1557797	OCS HP 181610 TRANS

2 Battery holder set, suitable for OCS and POS housing

	Item no.	Designation	Compatibility	Description	Min. battery dimension (W x D x H)/ (L x W x H)	Max. battery dimension (W x D x H)/ (L x W x H)
	1768074	OCS BAT PANEL SET 1210-150-195	OCS HP 121006... and POS HP 121006...	Holder for easy integration of batteries, consisting of battery fastening set + mounting panel with base, galvanized steel	140/120/80	195/136/150
	1768078	OCS BAT PANEL SET 1412-150-195	OCS HP 141206... and POS HP 141206...		140/120/80	195/136/170
	1768076	OCS BAT PANEL SET 1614-170-270	OCS HP 161408... and POS HP 161408...		140/120/80	270/156/220
	1768077	OCS BAT PANEL SET 1816-170-190-270	OCS HP 181610...		140/120/80	270/176/220

OCS series configuration overview

2 Accessories, specially adapted to the OCS series				
Compatible housings	Design	Description	Item no.	Type
All housings		Mounting foot, set of 4, incl. screws	1471777	OCS FOOT SET
		Corner attachment, set of 4, incl. screws (optional)	1471789	OCS CORNER SET
		Mounting screw for mounting domes, 20 pcs., steel	1557900	OCS MOUNT SCREW
		Corner inlay set, 2+2x hinges	1557904	OCS HINGED CORNER SET
		Ventilation unit	1557909	OCS VENT IP55
		Mounting screw, Set of 4, UNF 10-32	1521845	OCS CORNER SCREW SET
OCS HP 080604 GY7035 OCS HP 080604 TRANS 204 mm x 223 mm x 134 mm		Mounting plate, set of 2, incl. screws	1471778	OCS MOUNT 0806 SET
		Mounting panel, 4 mm thick, polycarbonate	1471783	OCS PANEL 0806 PC
		Mast mounting set, Ø60 mm to 140 mm, steel	1476923	OCS POLEFIX 0806
OCS HP 100806 GY7035 OCS HP 100806 TRANS 257 mm x 276 mm x 185 mm		Mounting plate Set of 2, incl. screws	1471781	OCS MOUNT 1008 SET
		Mounting panel, 4 mm thick, polycarbonate	1471785	OCS PANEL 1008 PC
		Mast mounting set, Ø60 mm to 140 mm, steel	1476924	OCS POLEFIX 1008

2 Accessories, specially adapted to the OCS series

Compatible housings	Design	Description	Item no.	Type
OCS HP 121006 GY7035 OCS HP 121006 TRANS 308 mm x 326 mm x 185 mm		Mounting plate Set of 2, incl. screws	1471782	OCS MOUNT 1210 SET
		Mounting panel, 4 mm thick, polycarbonate	1471786	OCS PANEL 1210 PC
		Mast mounting set, Ø60 mm to 140 mm, steel	1476926	OCS POLEFIX 1210
OCS HP 141206 GY7035 OCS HP 141206 TRANS 358 mm x 377 mm x 185 mm		Mounting plate Set of 2 incl. screws	1562129	OCS MOUNT 1412 SET
		Mounting panel, 4 mm thick, polycarbonate	1562143	OCS PANEL 1412 PC
		Mast mounting set, Ø60 mm to 140 mm, steel	1562148	OCS POLEFIX 1412
OCS HP 161408 GY7035 OCS HP 161408 TRANS 410 mm x 429 mm x 228 mm		Mounting plate Set of 2, incl. screws	1562132	OCS MOUNT 1614 SET
		Mounting panel, 4 mm thick, polycarbonate	1562144	OCS PANEL 1614 PC
		Mast mounting set, Ø60 mm to 140 mm, steel	1562151	OCS POLEFIX 1614
OCS HP 181610 GY7035 OCS HP 181610 TRANS 463 mm x 482 mm x 286 mm		Mounting plate Set of 2, incl. screws	1562133	OCS MOUNT 1816 SET
		Mounting panel, 4 mm thick, polycarbonate	1562145	OCS PANEL 1816 PC
		Mast mounting set, Ø60 mm to 140 mm, steel	1562153	OCS POLEFIX 1816

OCS series configuration overview

2 Accessories, can be used universally for the OCS series

Function	Design	Description	Item no.	Type
Pressure compensation element		IP66/IP67/IP69 EN 50629, thread: M12 x 1.5, with O-ring, color: light gray, material: PA	1415222	A-INB-M12-69KN-P-LG
Counter nut for pressure compensation element		Thread: M12 x 1.5, color: light gray, material: PA 6 GF 30	1417659	A-INL-M12-P-LG
Tamper protection		Cable tie, 4.6 x 150 mm, material: stainless steel	3240820	WT-STEEL SH 4,6X150
Cable gland		Thread: M25 x 1.5, outside cable diameter: 13 mm ... 18 mm, color: light gray, material: PA	1424472	G-INS-M25-L68N-PNES-LG
Cable gland with insertion sleeve		Thread: M25 x 1.5, outside cable diameter: 9 mm ... 17 mm, color: light gray, material: PA	1415175	G-INB-M25-M68N-PEPDS-LG
Counter nut for cable gland		Thread: M25 x 1.5, color: light gray, material: PA 6 GF 30	1417661	A-INL-M25-P-LG
Screw plug		Thread: M25 x 1.5, with O-ring, color: light gray, material: PA	1424520	A-INSP-M25-68N-P-LG
Cable gland		Thread: M40 x 1.5, outside cable diameter: 19 mm ... 28 mm, color: light gray, material: PA	1417656	G-INS-M40-M68N-PNES-LG
Cable gland with insertion sleeve		Thread: M40 x 1.5, with O-ring, incl. counter nut, outside cable diameter: 16 mm ... 28 mm, material: brass, nickel-plated	1415185	G-INB-M40-M68N-NEPDS-S
Counter nut for cable gland		Thread: M40 x 1.5, color: light gray, material: PA 6 GF 30	1417664	A-INL-M40-P-LG
Screw plug		Thread: M40 x 1.5, with O-ring, color: light gray, material: PA	1424522	A-INSP-M40-68N-P-LG
Push-pull panel-mount frame		RJ45 jack	1689446	VS-08-A-RJ45/LP-1-IP67
Protective covers		RJ45 jack	1658066	VS-08-SD-F
Connectors		Panel feed-through, QUICKON connection	1582557	QPD W 4PE2,5 6-11 M25 0,5 BK
Connectors		Panel feed-through, Push-in connection	1047363	IPD WD 5P2,5 0,5 M25 BK

2 Accessories, can be used universally for the OCS series

Function	Design	Description	Item no.	Type
RJ45 jack insert		RJ45 PCB connector	1653087	VS-08-BU-RJ45-6
RJ45 connector		RJ45 connector	1414383	CUC-V06-C1PGY-S/R4CE8:1
Dust protection		Protective cap for RJ45 jack	2832991	FL RJ45 PROTECT CAP
Device connector, rear mounting		PRC connector, 5-pos., conductor cross-section: 6 mm², cable length: 150 mm, contact connection type: male	1409213	PRC 5FT25 MC6-150
Nut		Suitable for PRC device connectors	1049832	FT NUT M25 GY
Protective cap		Suitable for PRC device connectors	1409237	PRC COVER M
Coupler connector		PRC connector, 5-pos., connection cross-section: 1.5 mm² ... 6 mm², screw connection, contact connection type: female	1017632	PRC 5-FC-FS6 8-21 HR
Protective cap		Suitable for PRC coupler connectors	1409236	PRC COVER F
PCB terminal block		For connecting PRC device connectors to the PCB, 5-pos., Push-in connection 5-pos., with Push-in connection	1719228	SPT 5/ 5-H-7,5-ZB
Photovoltaic device connector, front mounting		SUNCLIX device connector with crimp connection, contact connection type: pin	1158451	PV-FT-C4M-C-6-130-RD-00
Photovoltaic device connector, front mounting		SUNCLIX device connector with crimp connection, contact connection type: female	1158448	PV-FT-C4F-C-6-130-BU-00
Nut		For fastening SUNCLIX device connectors in housing	1083475	PV-FT-C COLLAR NUT BK
Protective cap		Set containing one protective cap for SUNCLIX male and one protective cap for SUNCLIX female	1785430	PV-C PROTECTION CAP
PCB terminal block		For connecting SUNCLIX device connectors to the PCB, 1-pos., Push-in connection	1719189	SPT 5/ 1-H-7,5

Further cable entry systems and accessories: [#0571](#)

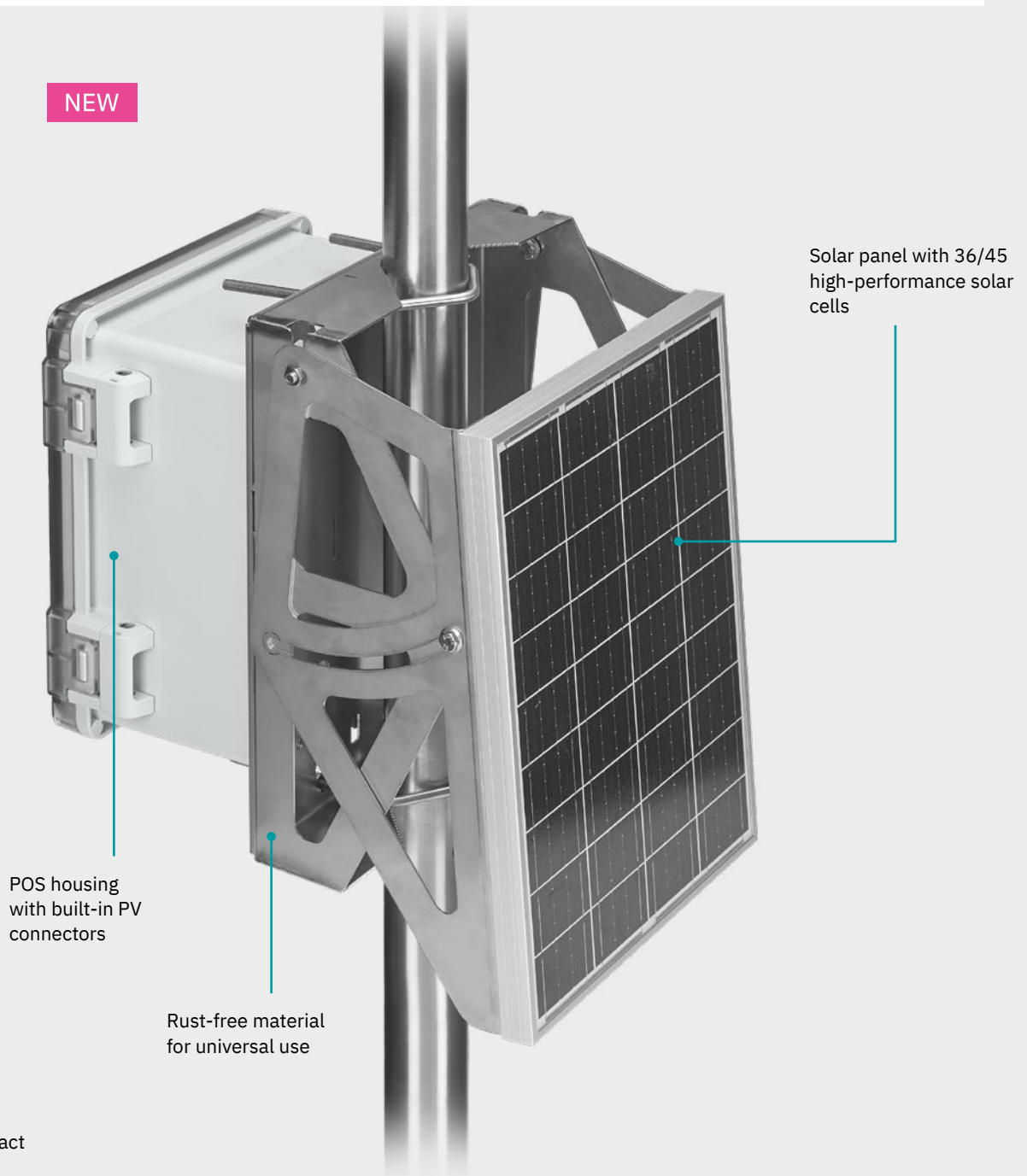
POS series PV system solution

For energy-self-sufficient systems

The POS (Pico Off-Grid System) is a PV panel-based solution for the simple setup of energy-self-sufficient systems with multiple performance classes up to 190 watts peak. The solution includes a stable housing, a pole bracket, and a solar panel. Computers, communication units, batteries and more can be added to create a self-sufficient solution for field use.



NEW



Your advantages



Simple one-person mounting with a tool (wrench size 13) in just 20 minutes.

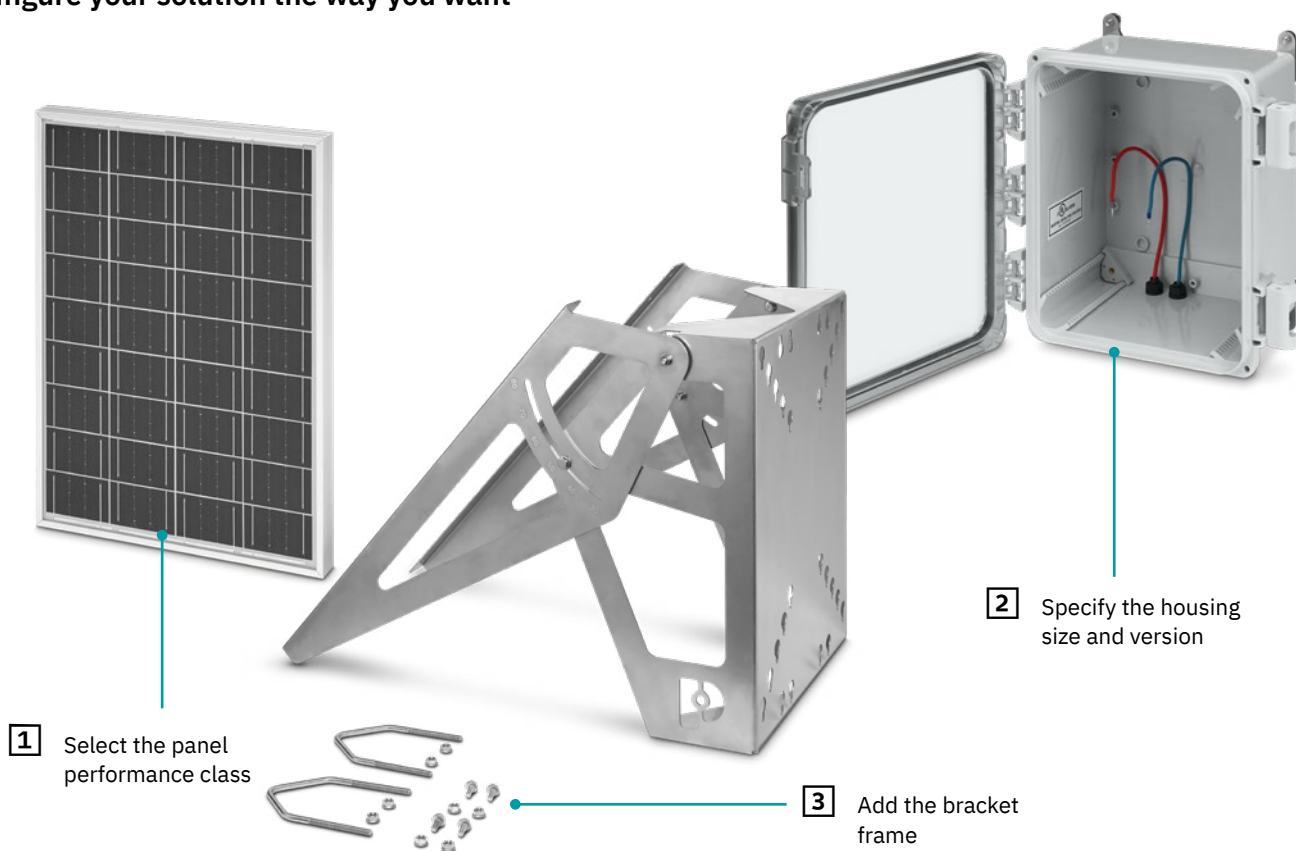


Five robust POS housing sizes compatible with the system.

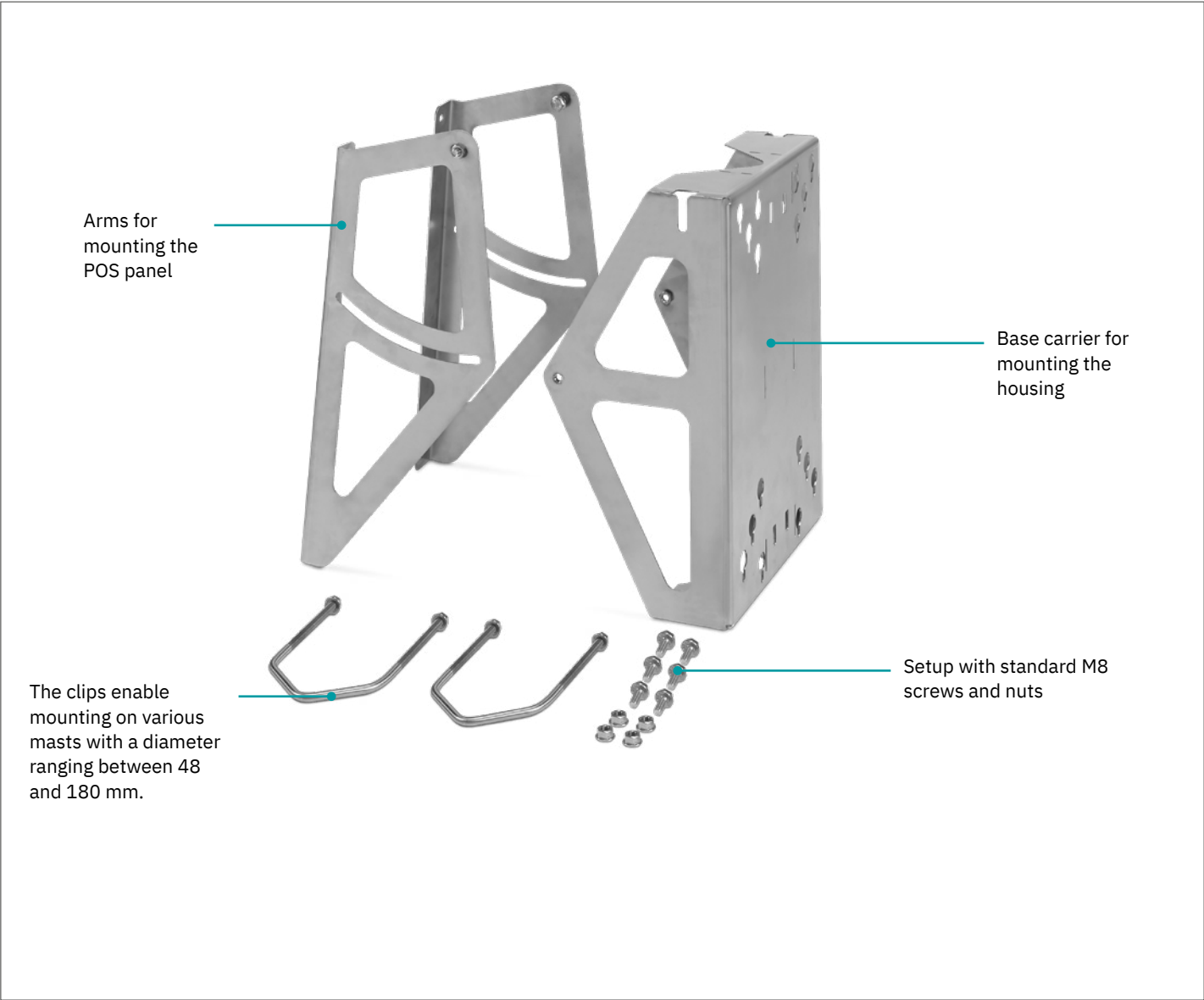


PV panels adjustable up to 55° for maximum energy generation.

Configure your solution the way you want



POS series configuration overview



1 Panel				
	Dimensions (W x H x D)	Description	Item no.	Type
	308 mm x 417 mm x 25 mm	22 W solar panel, SUNCLIX connector	1587082	POS PV PANEL 22
	660 mm x 630 mm x 35 mm	75 W solar panel, SUNCLIX connector	1587083	POS PV PANEL 75
	550 mm x 1250 mm x 35 mm	110 W solar panel, SUNCLIX connector	1587085	POS PV PANEL 110
	680 mm x 1500 mm x 35 mm	190 W solar panel, SUNCLIX connector	1587086	POS PV PANEL 190

POS series configuration overview

2 Housing version NEW				
	Dimensions (W x H x D)	Description	Item no.	Type
	255 mm x 185 mm x 134 mm	OCS housing with transparent cover, with POS-Mount 0806 mounting profile, incl. SUNCLIX device connector	1588625	POS HP 080604 TRANS
	276 mm x 255 mm x 185 mm	OCS housing with transparent cover, with POS-Mount 1008 mounting profile, incl. SUNCLIX device connector	1588624	POS HP 100806 TRANS
	326 mm x 276 mm x 185 mm	OCS housing with transparent cover, with POS-Mount 1210 mounting profile, incl. SUNCLIX device connector	1588626	POS HP 121006 TRANS
	377 mm x 358 mm x 185 mm	OCS housing with transparent cover, with POS-Mount 1412 mounting profile, incl. SUNCLIX device connector	1588627	POS HP 141206 TRANS
	429 mm x 410 mm x 228 mm	OCS housing with transparent cover, with POS-Mount 1614 mounting profile, incl. SUNCLIX device connector	1588623	POS HP 161408 TRANS
	255 mm x 185 mm x 134 mm	OCS housing with light gray cover, with POS-Mount 0806 mounting profile, incl. SUNCLIX device connector	1586887	POS HP 080604 GY7035
	276 mm x 255 mm x 185 mm	OCS housing with light gray cover, with POS-Mount 1008 mounting profile, incl. SUNCLIX device connector	1586885	POS HP 100806 GY7035
	326 mm x 276 mm x 185 mm	OCS housing with light gray cover, with POS-Mount 1210 mounting profile, incl. SUNCLIX device connector	1586884	POS HP 121006 GY7035
	377 mm x 358 mm x 185 mm	OCS housing with light gray cover, with POS-Mount 1412 mounting profile, incl. SUNCLIX device connector	1586877	POS HP 141206 GY7035
	429 mm x 410 mm x 228 mm	OCS housing with light gray cover, with POS-Mount 1614 mounting profile, incl. SUNCLIX device connector	1586881	POS HP 161408 GY7035

3 Bracket frame			
			
Type	POS POLEFIX S 108 VA	POS POLEFIX M 108 VA	POS POLEFIX M 180 VA
Item no.	1587067	1587068	1587071
Description	Pole bracket – type 2, base carrier arms for PV, clips for mast Ø <108 mm, mounting material	Pole bracket – type 1, base carrier arms for PV, clips for mast Ø <108 mm, mounting material	Pole bracket – type 1, base carrier arms for PV, clips for mast Ø <180 mm, mounting material
Material	V2A	V2A	V2A
Compatible POS housings	1586887 / 1588625 1586885 / 1588624 1586884 / 1588626	1586887 / 1588625 1586885 / 1588624 1586884 / 1588626 1586877 / 1588627 1586881 / 1588623	1586887 / 1588625 1586885 / 1588624 1586884 / 1588626 1586877 / 1588627 1586881 / 1588623
Compatible panel sizes	Solar panel 22 W (1587082)	Solar panel 75 W (1587083) Solar panel 110 W (1587085) Solar panel 190 W (1587086)	Solar panel 75 W (1587083) Solar panel 110 W (1587085) Solar panel 190 W (1587086)

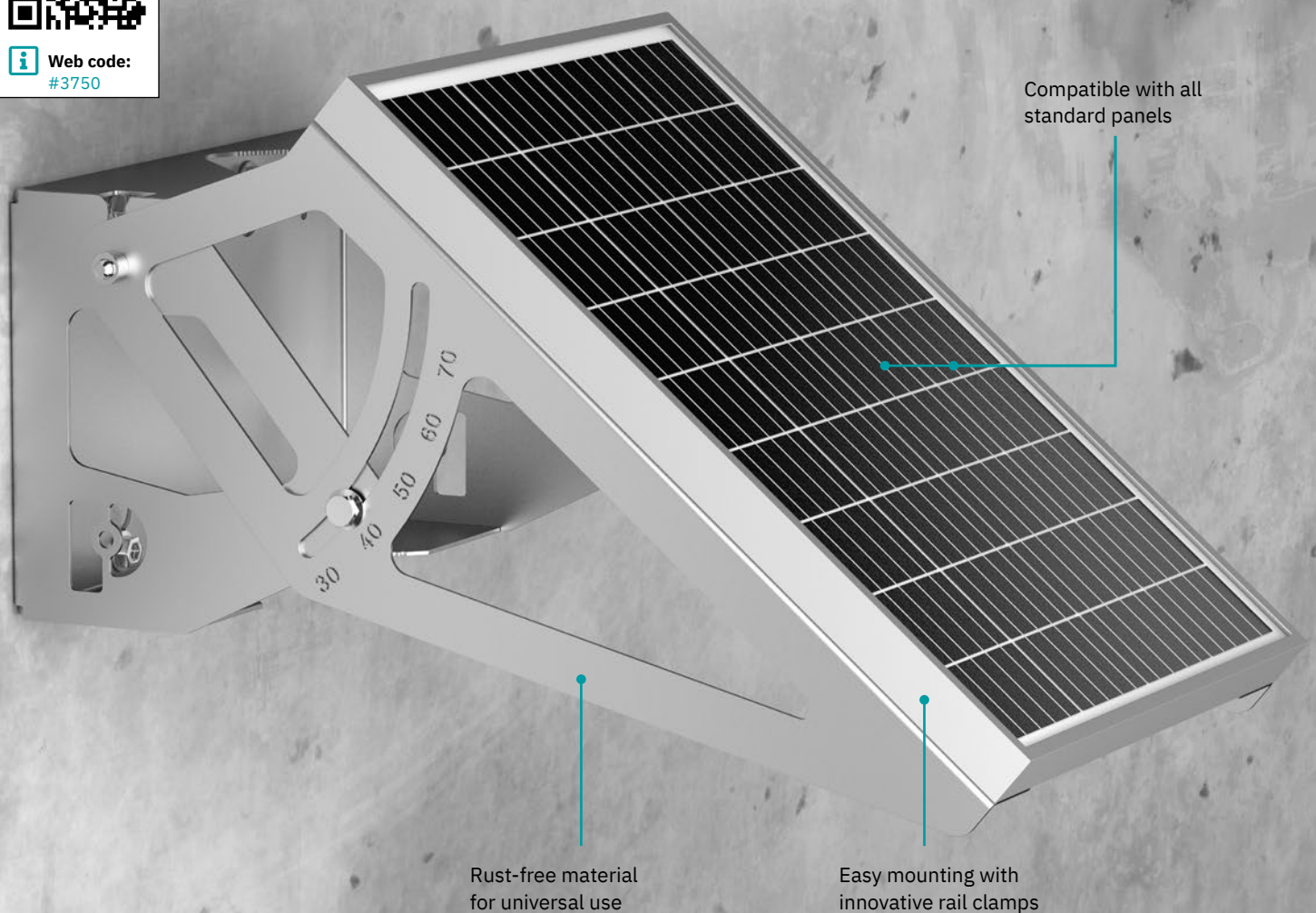
PV panel bracket, POS PANELFIX

For energy-self-sufficient systems

The PV panel bracket is suitable for mounting various panels in the range from 20 to 200 Wp. The flexible design enables mounting on the panel and the mast. With the innovative clamping solution, the panel can be attached by one person in just 15 minutes using just one tool. The bracket frame is suitable for harsh environments and holds reliably up to wind force 10.

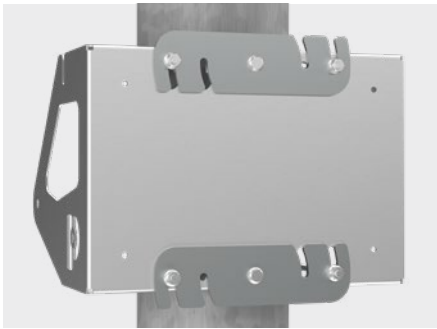


NEW



Your advantages





Even more stability for higher wind forces with additional reinforcement



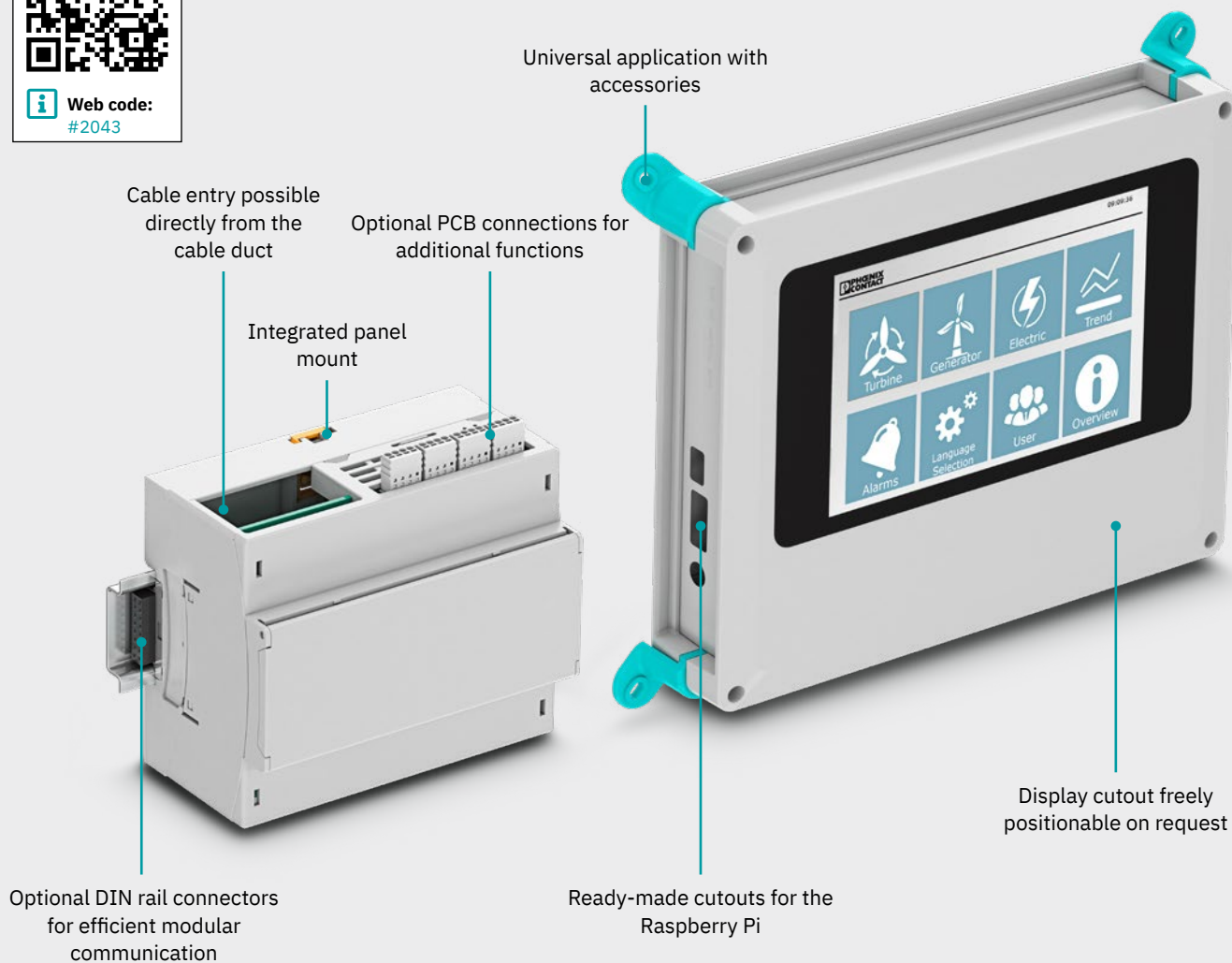
Compatible with all standard panels (20 to 200 Wp) with innovative mounting

Bracket frame					
	Description	Type	Item no.	Min. panel width (min. panel length: 360 mm)	Max. panel width (max. panel length: free)
	Bracket frame for PV panel incl. mounting material for screw mounting	POS PANELFIX S	1653801	90 mm	380 mm
	Bracket frame for PV panel incl. mounting material for screw mounting	POS PANELFIX M	1653798	310 mm	680 mm

Accessories				
	Function	Type	Item no.	Compatibility
	2 mast fastenings for Ø <108, includes brackets and nuts	POS POLEMOUNT SET 108	1790330	POS PANELFIX M VA POS PANELFIX S VA
	2 mast fastenings for Ø <180, includes brackets and nuts	POS POLEMOUNT SET 180	1790333	POS PANELFIX M VA
	2 reinforcement plates for improved stability for Ø <108	POS POLEMOUNT SHIM 108	1790327	POS PANELFIX M VA, POS PANELFIX S VA, POS POLEMOUNT SET 108
	2 reinforcement plates for improved stability for Ø <180	POS POLEMOUNT SHIM 180	1790329	POS PANELFIX M VA, POS POLEMOUNT SET 108, POS POLEMOUNT SET 180
	4 panel terminal blocks for clamp mounting of the PV panels	CLAMP SET POS	1790338	POS PANELFIX M VA POS PANELFIX S VA

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 panel. With the comprehensive range of accessories, the UCS-RPI can be used universally. Optional interfaces enable simple function extension.



Your advantages



Individual function extensions with optional interfaces and additional accessories.



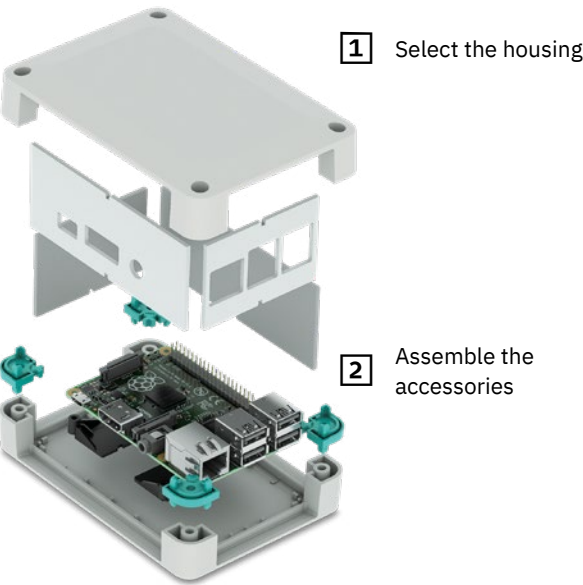
Easy integration of the Raspberry Pi touch display and increased functionality with more space available for individual circuits.



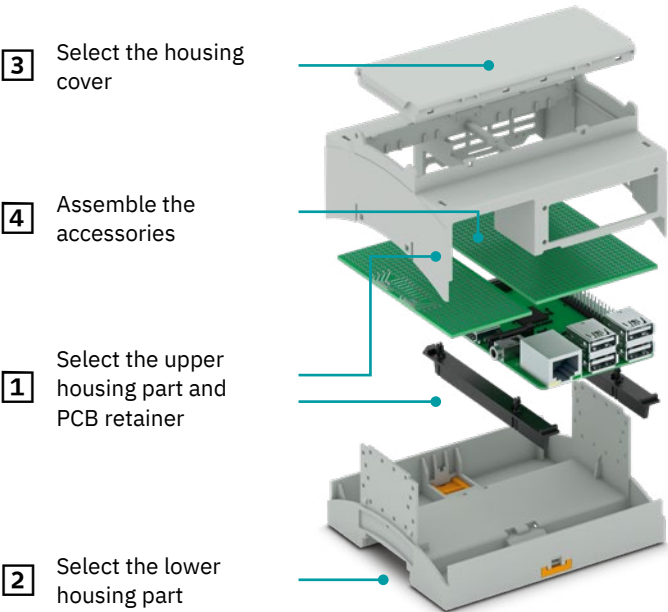
16-pos. DIN rail connector for serial and parallel module communication.

Configure your desired product

UCS-RPI



RPI-BC



Go directly to the online configurator

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

 **Web code:** #0512

Housing color options (based on RAL color system):

■ 9005	■ 7035				
Other colors on request.					

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

Configuration overview for the RPI-BC series

 Product list web code: #2362

Set			
	Description	Type	Item no.
	Set, consisting of lower part incl. base latch, upper part, cover (latched shut), and PCB retainer (suitable for Raspberry Pi A+, B+, 2B, 3B, 4B, and 5B), color: light gray (similar to RAL 7035)	RPI-BC 107,6 DEV-KIT KMGY ¹⁾	2202874
	DIN rail housing for Raspberry Pi computers (suitable for Raspberry Pi A+, B+, 2B, 3B, 4B, and 5B), set consisting of HBUS, pin and female strips, lower part, upper part, cover, PCB with perfboard for connecting the HBUS and the GPIO strip, housing in accordance with DIN 43880, color: light gray (similar to 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: jet black (similar to RAL 9005), PCB holder, color: anthracite gray (similar to RAL 7016)	RPI-BC 107,6 DEV-KIT KMGY P10	2202875
		RPI-BC 107,6 DEV-KIT BK P10	1227311

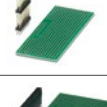
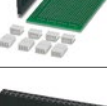
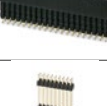
2 Lower housing part

	Lower part incl. base latch, color: light gray (similar to RAL 7035)	BC 107,6 UT HBUS KMGY	2202951
	Lower part incl. base latch, color: jet black (similar to RAL 9005)	BC 107,6 UT HBUS BK	2896270

3 Housing cover

	Transparent cover (can be swiveled) and plate	BC 107,6 DKL S TRANS	2896131
	Cover (latched shut), color: light gray (similar to RAL 7035)	BC 107,6 DKL R KMGY	2896173

4 Accessories

	Adapter for using the Raspberry Pi A+, color: anthracite gray (similar to 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 perfboard	RPI-BC EXT-PCB HBUS SET	2202995
	PCB with GPIO connection and solder rings for PTSM terminal blocks, incl. socket strips and PTSM terminal blocks, with perfboard	RPI-BC INT-PCB SET	2202994
	Female strip for connecting an additional PCB or PCB with perfboard 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 perfboard to the HBUS	PSTD 0,65X0,65 / 18-3IS-2,54	2202993

Configuration overview for the UCS-RPI series

 Product list web code: #0664

Configuration pages

1 Complete housing

	Description	Form factor	Color	Type	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 inlays	Raspberry Pi 2B and 3B	Light gray (RAL 7035)	UCS 237-195-F-GD-RPI-DT7 7035	1104780
			Jet black (RAL 9005)	UCS 237-195-F-GD-RPI-DT7 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 inlays	Raspberry Pi 2B and 3B	Light gray (RAL 7035)	UCS 125-87-F-GD-RPI 7035	1019724
			Jet black (RAL 9005)	UCS 125-87-F-GD-RPI 9005	1019723
		Raspberry Pi 4B	Light gray (RAL 7035)	UCS 125-87-F-GD-RPI4B 7035	1139227
			Jet black (RAL 9005)	UCS 125-87-F-GD-RPI4B 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 inlays	Raspberry Pi 2B and 3B	Light gray (RAL 7035)	UCS 145-125-F-GD-RPI 7035	1019749
			Jet black (RAL 9005)	UCS 145-125-F-GD-RPI 9005	1019720
		Raspberry Pi 4B	Light gray (RAL 7035)	UCS 145-125-F-GD-RPI4B 7035	1139240
			Jet black (RAL 9005)	UCS 145-125-F-GD-RPI4B 9005	1139242
	Complete housing for integrating the Raspberry Pi computer, side panels with openings for all relevant connections, coordinated heatsink/heat spreader combination, with turquoise blue corner inlays	Raspberry Pi 5	Light gray (RAL 7035)	UCS 125-87-F-RPI5-HSAS 7035	1661047
			Jet black (RAL 9005)	UCS 125-87-F-RPI5-HSAS 9005	1661048
			Light gray (RAL 7035)	UCS 145-125-F-RPI5-HSAS 7035	1661050
			Jet black (RAL 9005)	UCS 145-125-F-RPI5-HSAS 9005	1661051

2 Accessories¹⁾

	Description	Color	Type	Item no.
	Basic wall bracket			
	Adapter for attaching the UCS housing to the wall, to a VESA bracket frame, or to a wall outlet box. ²⁾	Light gray (RAL 7035)	UCS WM-MP 125-87 7035	1225407
		Jet black (RAL 9005)	UCS WM-MP 145-125 7035	1225406
	Stand			
	Stand for holding the UCS housing. Latches into the housing screw holes.	Light gray (RAL 7035)	UCS PED 7035	2203392
		Jet black (RAL 9005)	UCS PED 7035	2203393
		Turquoise blue (RAL 5018)	UCS PED 5018	2203394
	Corner guards			
	Adapter for protecting the corners of the UCS housing. Held in place in the housing screw holes.	Light gray (RAL 7035)	UCS CP 7035	2203346
		Jet black (RAL 9005)	UCS CP 9005	2203347
		Turquoise blue (RAL 5018)	UCS CP 5018	2203348
	Stack corners			
	Adapter for stacking several UCS housings of the same size. Held in place in the housing screw holes.	Light gray (RAL 7035)	UCS CS 7035	2203720
		Jet black (RAL 9005)	UCS CS 9005	2203721
		Turquoise blue (RAL 5018)	UCS CS 5018	1029039
	DIN rail adapters			
	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.	Light gray (RAL 7035)	UCS DIN 125-F 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.	Light gray (RAL 7035)	UCS DIN 145-F 7035	2203839

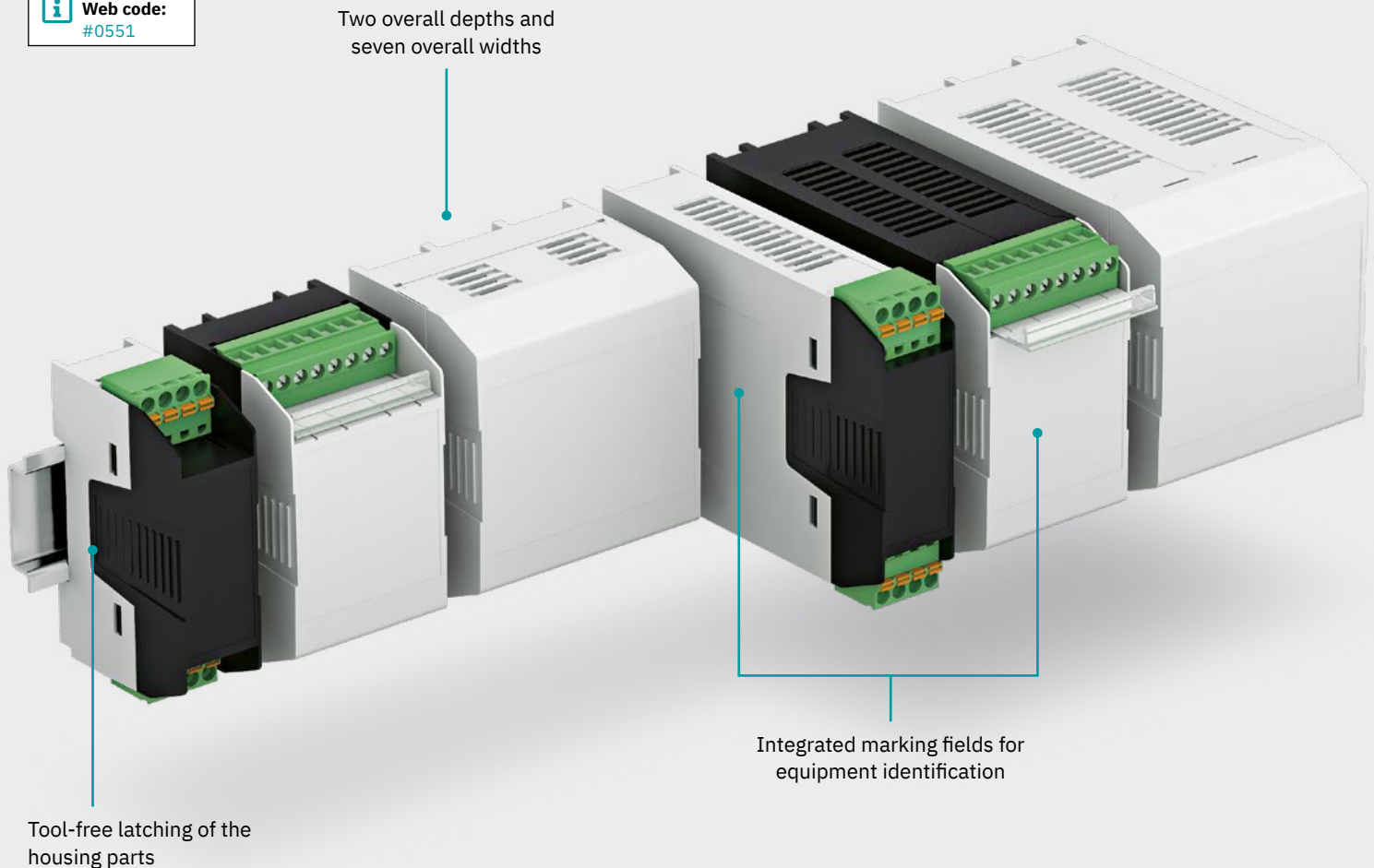
¹⁾ For UCS accessories, see page 40.

²⁾ Brackets for VESA 75/100 and 100/200 applications; for wall outlet boxes with 60 mm diameter; can also be used in conjunction with HS.../ type monitor brackets (more information starting on page 196).

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.



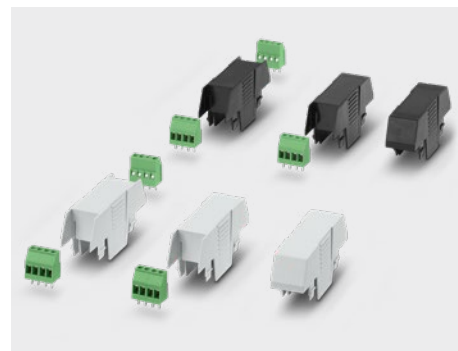
Your advantages



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



DIN rail or panel mounting for application-specific device fastening.



Three cover versions for individual PCB connections.

Configure your desired product

Tall design

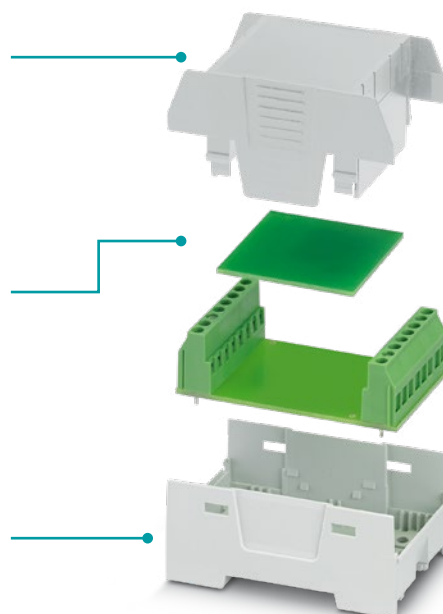


2 Choose the matching upper housing part

3 Select the connection technology or filler plug

1 Select the design, color and width of the lower housing part

Flat design



Go directly to the online configurator

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

 **Web code:** #0512

Housing color options (based on RAL color system):

■ 7035 ■ 9005

Other colors on request.

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

EH series configuration overview

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 ...							
			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 VO	Flammability rating HB	Flammability rating VO	Flammability rating HB	Flammability rating VO	Flammability rating HB	Flammability rating VO
	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
Flat design, overall depth (lower part + upper part): 53.5 mm	Light gray (similar to RAL 7035)	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
Flat design, overall depth (lower part + upper part): 53.5 mm	Black (similar to RAL 9005)	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
									Flammability rating HB	Flammability rating V0
4-pos., green	1712805	2x 1721045	1753479	1758034	4-pos., black	1933202	5-pos., green	1803455		
6-pos., green	1701144	2x 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	2x 1721045	1753479	1758034	4-pos., black	1933202	5-pos., green	1803455		
6-pos., green	1701144	2x 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 offered by the modular housing system ICS are as varied as the requirements of future-oriented automation devices. Benefit from a housing system with graduated sizes and with variable connection technology. Passive heatsinks enable the finished devices to be used in thermally demanding applications. Displays or configurable membrane keypads make your devices more user-friendly.



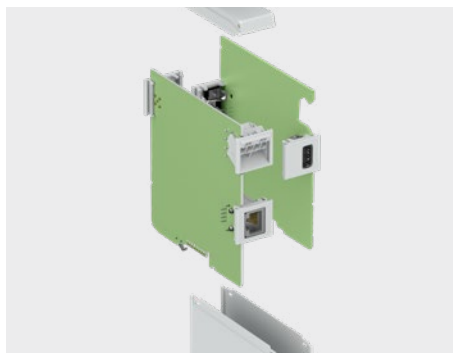
Web code:
#1635



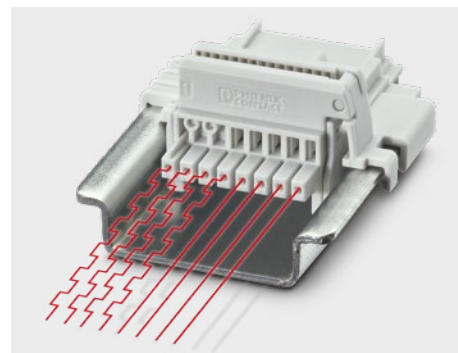
Your advantages



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



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



8-pos. DIN rail connectors with parallel and serial contacts for simple module-to-module communication.

Configure your desired product

2 Select the upper housing part

1 Define the lower housing part

5 Select a DIN rail connector

3 Specify the connection technology

4 Select the filler

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):

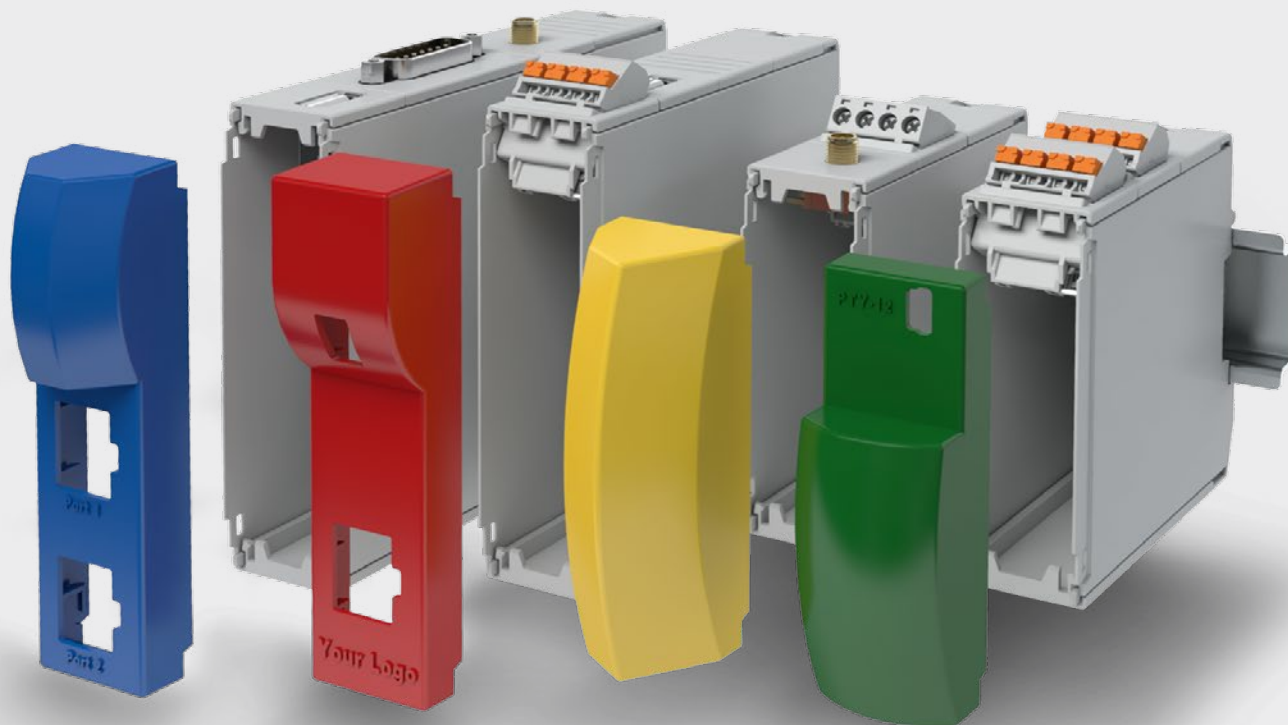
■ 7035 ■ 9005 ■ 5015 ■ 1018

Other colors 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. If you want a distinctive design, you can order your individual cover design with the digital ICS Cover Designer as a 3D print in just a few steps – followed by prototype deliveries and subsequent series production.



Your advantages



Comprehensive portfolio

A large selection of standard items 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 desired product



Go directly to the online configurator

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

 **Web code: #0512**

1. Configure the ICS housing:

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

2. Design the housing cover:

If you would like an individual cover, you will be automatically directed to the ICS Cover Designer where you can intuitively design your own cover. You can then order a single additively-manufactured prototype from our cooperation partner PROTIQ 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

Email: housing-modification@phoenixcontact.com

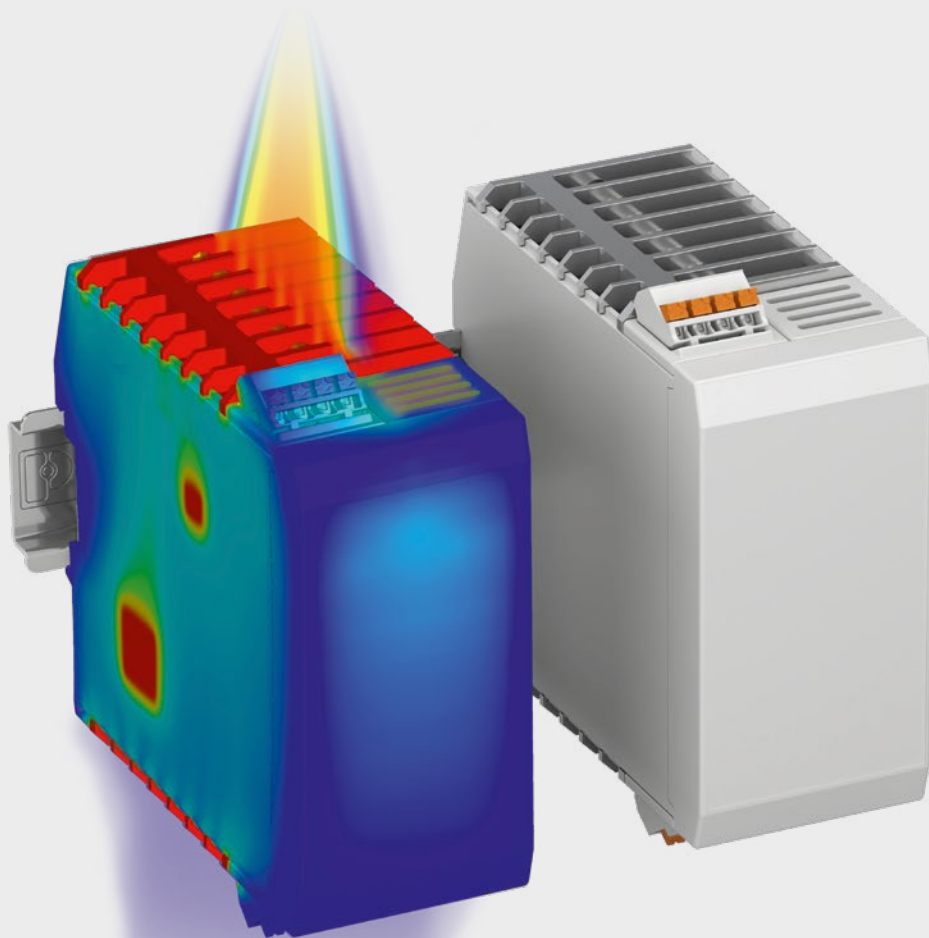
ICS Cover Designer

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

We provide a web-based platform for assessing the thermal behavior of electronic devices right in the early stages of development. You will receive an application-specific simulation and a recommendation for the optimal housing selection and heatsink design. For targeted heat dissipation, we offer an extensive selection of suitable heatsinks. We are also happy to produce customer-specific heatsinks for your application.

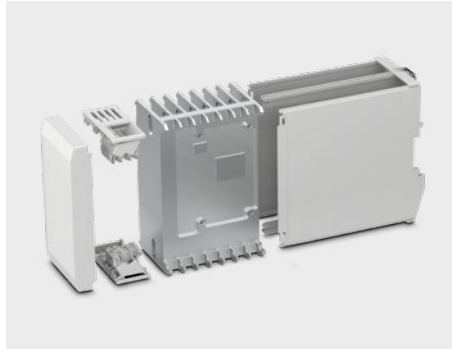


Your advantages



Online configuration

Automated thermal simulation after assembling the module online.



Tailored components

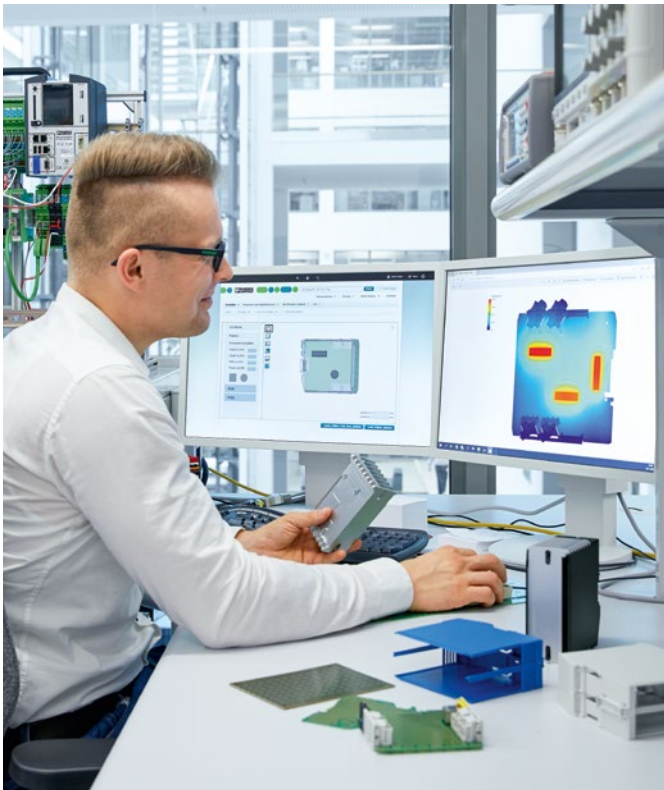
ICS housing milled to accommodate the electronics, including the heatsink.



Optimized devices

Heatsinks enable the 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, use the configurator for ICS housings to 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 email.

Go directly to the online configurator

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

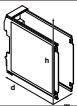
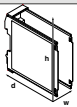
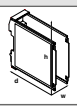
 Web code: #0512

Contact us at:

Email: housing-thermal-management@phoenixcontact.com

ICS series configuration overview

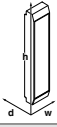
1 Lower housing part

Description	Housing width of 20 mm						
							
Width / w [mm]	20	20					
Height / h [mm]	100	100					
Depth / d [mm] ¹⁾	98	98					
Overall depth ^{1) 2)}	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] ¹⁾	75	98	98	120	120	98	98
Overall depth ^{1) 2)}	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 / w [mm]	50	50	50	50	50		
Height / h [mm]	100	100	122	122	122		
Depth / d [mm] ¹⁾	98	98	98	98	120		
Overall depth ^{1) 2)}	110	110	110	110	132		
Number of levels	4	4	4	4	5		
Design of 1st level	With vents	Open	With vents	Open	Open		
Number of connection levels (both sides)	6	8	6	8	10		
Type	ICS50-B100x98-V-V-7035	ICS50-B100x98-O-O-7035	ICS50-B122x98-V-V-7035	ICS50-B122x98-O-O-7035	ICS50-B122x120-O-O-7035		
Item no.	1076998	1118644	1077064	1118647	1691997		

¹⁾ Depth from top edge of DIN rail

²⁾ Lower housing part from the top edge of DIN rail with upper housing part

2 Upper housing part ³⁾

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 ²⁾ (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 ²⁾ (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

3) Custom cover: More information starting on pages 20 and 94

Design your own individual ICS housing cover

1. Configure the ICS housing:

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

2. Design the housing cover:

If you would like an individual cover, you will be automatically directed to the ICS Cover Designer where you can intuitively design your own cover. You can then order an additively-manufactured prototype individually 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
Email:
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 www.protiq.com/en/ics-cover-configurator.



ICS series configuration overview

Housing	3 Connection technology – headers							
	Headers							
	5.0 mm pitch							
								
Housing width	3-pos., left		3-pos., right		4-pos., left		4-pos., right	
	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							
	5.0 mm pitch							
								
	3-position		4-position		3-pos., can be coded		4-pos., can be coded	
Housing width	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		
25 mm/50 mm			PSPT 2,5/4-ST KMGY	2202344			ICC25-PPC2,5/4-5,0-AA-7035	1084034

Housing	3 Connection technology – connectors							
	5.0 mm pitch							
								
	3-position		4-position		3-pos., can be coded			
Housing width	Type / item no.		Type / item no.		Type / item no.			
20 mm	MSTBT 2,5 HC/3-STP	2200333			ICC20-PSC2,5/3-5,0-AA-7035	1084026		
25 mm/50 mm			MSTBT 2,5 HC/4-STP	2200332				

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

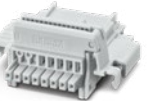
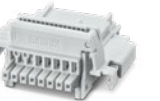
Push-in							
3.5 mm pitch							
							
4-position		5-position		4-pos., can be coded		5-pos., can be coded	
Type / item no.		Type / item no.		Type / item no.		Type / item no.	
PSPT 1,5/4-ST-3,5-7035	1102110			ICC20-PPC1,5/4-3,5-AA-7035	1102107		
		PSPT 1,5/5-ST-3,5-7035	1102114			ICC25-PPC1,5/5-3,5-AA-7035	1102108

Screw							
3.5 mm pitch							
							
4-pos., can be coded		4-pos., can be coded		5-pos., can be coded			
Type / item no.		Type / item no.		Type / item no.			
		ICC20-PSC1,5/4-3,5-AA-7035	1084020				
ICC25-PSC2,5/4-5,0-AA-7035	1084027			ICC25-PSC1,5/5-3,5-AA-7035	1084024		

ICS series configuration overview

Housing	3 Connection technology – PCB terminal blocks							
	Push-in							
	5.0 mm pitch							
								
Housing width	3-pos., left		3-pos., right		4-pos., left		4-pos., right	
	Type / item no.		Type / item no.		Type / item no.		Type / item no.	
20 mm	ICC20-TP2,5/3L5,0-7035	1474500	ICC20-TP2,5/3R5,0-7035	1474477				
25 mm / 50 mm					ICC25-TP2,5/4L5,0-7035	1474487	ICC25-TP2,5/4R5,0-7035	1474491

Housing	3 Connection technology – PCB terminal blocks							
	Screw							
	5.0 mm pitch							
								
Housing width	3-pos., left		3-pos., right		4-pos., left		4-pos., right	
	Type / item no.		Type / item no.		Type / item no.		Type / item no.	
20 mm	ICC20-TS2,5/3L5,0-7035	1380485	ICC20-TS2,5/3R5,0-7035	1380146				
25 mm / 50 mm					ICC25-TS2,5/4L5,0-7035	1380293	ICC25-TS2,5/4R5,0-7035	1380294

Housing	5 DIN rail connector, 8-pos.							
	2.54 mm pitch							
	TBUS8, 8 parallel contacts		TBUS8, 7 parallel contacts, 1 serial contact		TBUS8, 6 parallel contacts, 2 serial contacts		TBUS8, 4 parallel contacts, 4 serial contacts	
								
Housing width	Type / item no.		Type / item no.		Type / item no.		Type / item no.	
	TBUS8-20,0-PPPPPPPP-7035		TBUS8-20,0-PPPPPPPS-7035		TBUS8-20,0-PPPPPPSS-7035			
20 mm		2202889		2202894		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

Push-in							
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-TP1,5/4L3,5-7035	1474478	ICC20-TP1,5/4R3,5-7035	1474479				
				ICC25-TP1,5/5L3,5-7035	1474497	ICC25-TP1,5/5R3,5-7035	1474499

Screw							
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-TS1,5/4L3,5-7035	1380291	ICC20-TS1,5/4R3,5-7035	1380292				
				ICC25-TS1,5/5L3,5-7035	1380295	ICC25-TS1,5/5R3,5-7035	1380298

NEW

5 Accessories for DIN rail connector (8-pos.)

TBUS bridge (ICS 20)		TBUS bridge (ICS 25)		TBUS feed-in		TBUS load pick-off and output	
							
Type / item no.		Type / item no.		Type / item no.		Type / item no.	
TBUS8-20-BRIDGE-7035	1387011			TBUS8-SPL-KIT-7035	1488805	TBUS8-TAP-KIT-7035	1488806
		TBUS8-25-BRIDGE-7035	1387008				

ICS series configuration overview

4 Filler without vents ¹⁾						
Housing 						
	Color similar to	Depth 22.5 mm		Depth 45 mm		
		Type / item no.		Type / item no.		
Housing width						
20 mm	 RAL 7035	ICS20-F22S-7035	2203888	ICS20-F45S-7035	2203889	
25 mm / 50 mm	 RAL 7035	ICS25-F22S-7035	2203890	ICS25-F45S-7035	2203891	
20 mm	 RAL 9005	ICS20-F22S-9005	1072523	ICS20-F45S-9005	1072522	
25 mm / 50 mm	 RAL 9005	ICS25-F22S-9005	1072520	ICS25-F45S-9005	1072519	
20 mm	 RAL 5015	ICS20-F22S-5015	1072468	ICS20-F45S-5015	1071795	
25 mm / 50 mm	 RAL 5015	ICS25-F22S-5015	1071794	ICS25-F45S-5015	1071767	
20 mm	 RAL 1018	ICS20-F22S-1018	1179827	ICS20-F45S-1018	1179830	
25 mm / 50 mm	 RAL 1018	ICS25-F22S-1018	1099531	ICS25-F45S-1018	1099555	

4 Filler with vents ¹⁾						
Housing 						
	Color similar to	Depth 22.5 mm		Depth 45 mm		
		Type / item no.		Type / item no.		
Housing width						
20 mm	 RAL 7035	ICS20-F22V-7035	1079494	ICS20-F45V-7035	1079493	
25 mm / 50 mm	 RAL 7035	ICS25-F22V-7035	1079495	ICS25-F45V-7035	1079492	
20 mm	 RAL 9005	ICS20-F22V-9005	1104315	ICS20-F45V-9005	1104314	
25 mm / 50 mm	 RAL 9005	ICS25-F22V-9005	1104313	ICS25-F45V-9005	1104312	
20 mm	 RAL 5015	ICS20-F22V-5015	1104320	ICS20-F45V-5015	1104319	
25 mm / 50 mm	 RAL 5015	ICS25-F22V-5015	1104318	ICS25-F45V-5015	1104317	
20 mm	 RAL 1018	ICS20-F22V-1018	1287388	ICS20-F45V-1018	1287386	
25 mm / 50 mm	 RAL 1018	ICS25-F22V-1018	1287382	ICS25-F45V-1018	1287380	

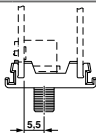
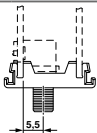
1) Filler with individual function cutouts and openings available on request. Other colors are available on request.

					
Depth 67 mm		Depth 90 mm		Depth 112 mm	
Type / item no.		Type / item no.		Type / item no.	
ICS20-F67S-7035	1287461	ICS20-F90S-7035	1287452		
ICS25-F67S-7035	1287434	ICS25-F90S-7035	1287425	ICS25-F112S-7035	1287413
ICS20-F67S-9005	1287455	ICS20-F90S-9005	1287450		
ICS25-F67S-9005	1287431	ICS25-F90S-9005	1287415	ICS25-F112S-9005	1287411
ICS20-F67S-5015	1287458	ICS20-F90S-5015	1287451		
ICS25-F67S-5015	1287433	ICS25-F90S-5015	1287416	ICS25-F112S-5015	1287412
ICS20-F67S-1018	1287453	ICS20-F90S-1018	1287449		
ICS25-F67S-1018	1287430	ICS25-F90S-1018	1287414	ICS25-F112S-1018	1287410

					
Depth 67 mm		Depth 90 mm		Depth 112 mm	
Type / item no.		Type / item no.		Type / item no.	
ICS20-F67V-7035	1287448	ICS20-F90V-7035	1287441		
ICS25-F67V-7035	1287409	ICS25-F90V-7035	1287405	ICS25-F112V-7035	1287401
ICS20-F67V-9005	1287446	ICS20-F90V-9005	1287437		
ICS25-F67V-9005	1287407	ICS25-F90V-9005	1287403	ICS25-F112V-9005	1287399
ICS20-F67V-5015	1287447	ICS20-F90V-5015	1287438		
ICS25-F67V-5015	1287408	ICS25-F90V-5015	1287404	ICS25-F112V-5015	1287400
ICS20-F67V-1018	1287443	ICS20-F90V-1018	1287435		
ICS25-F67V-1018	1287406	ICS25-F90V-1018	1287402	ICS25-F112V-1018	1287396

ICS series configuration overview

Housing	4 Filler for data connector ¹⁾						
		USB-A		RJ45		Double RJ45	
							
	Color similar to	Depth 22.5 mm		Depth 22.5 mm		Depth 45 mm	
Housing width		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-F45-2J-7035	1754070
20 mm	 RAL 9005	ICS20-F22U-9005	1072503				
25 mm/50 mm	 RAL 9005	ICS25-F22U-9005	1072494	ICS25-F22J-9005	1072501	ICS25-F45-2J-9005	1754075
20 mm	 RAL 5015	ICS20-F22U-5015	1071659				
25 mm/50 mm	 RAL 5015	ICS25-F22U-5015	1071629	ICS25-F22J-5015	1071641	ICS25-F45-2J-5015	1754069
20 mm	 RAL 1018	ICS20-F22U-1018	1287385				
25 mm/50 mm	 RAL 1018	ICS25-F22U-1018	1287377	ICS25-F22J-1018	1287378	ICS25-F45-2J-1018	1754081

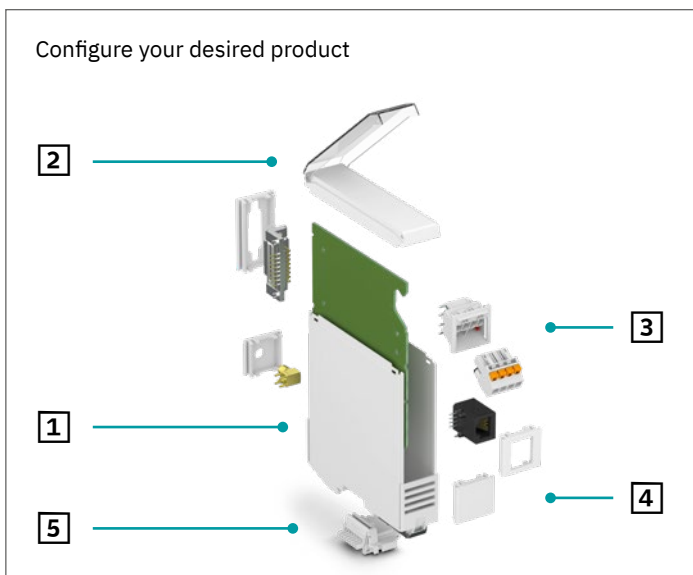
Housing	4 Filler for antennas ¹⁾					
						
Housing width	Color similar to		Spacing ²⁾ : 5.5 mm		Spacing ²⁾ : 6.4 mm	
			Type / item no.		Type / item no.	
20 mm	 RAL 7035		ICS20-F22A-7035	2203892	ICS20-F22A6-7035	1287371
25 mm / 50 mm	 RAL 7035		ICS25-F22A-7035	2203894	ICS25-F22A6-7035	1287369
20 mm	 RAL 9005		ICS20-F22A-9005	1073007	ICS20-F22A6-9005	1287373
25 mm / 50 mm	 RAL 9005		ICS25-F22A-9005	1072502	ICS25-F22A6-9005	1287367
20 mm	 RAL 5015		ICS20-F22A-5015	1071765	ICS20-F22A6-5015	1287372
25 mm / 50 mm	 RAL 5015		ICS25-F22A-5015	1071642	ICS25-F22A6-5015	1287368
20 mm	 RAL 1018		ICS20-F22A-1018	1287383	ICS20-F22A6-1018	1287370
25 mm / 50 mm	 RAL 1018		ICS25-F22A-1018	1287376	ICS25-F22A6-1018	1287366

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

2) Spacing from the central filler opening to the PCB (see drawing).

Housing	4 Filler for data connector ¹⁾									
		D-SUB 9		D-SUB 15		M12		Double M12		
										
Housing width	Color similar to	Depth 45 mm		Depth 45 mm		Depth 22.5 mm		Depth 45 mm		
		Type / item no.		Type / item no.		Type / item no.		Type / item no.		
20 mm	 RAL 7035									
25 mm / 50 mm	 RAL 7035	ICS25-F45D9-7035	1053054	ICS25-F45D15-7035	2203896	ICS25-F22M12-7035	1558623	ICS25-F45-2M12-7035	1754086	
20 mm	 RAL 9005									
25 mm / 50 mm	 RAL 9005	ICS25-F45D9-9005	1072500	ICS25-F45D15-9005	1072495	ICS25-F22-M12-9005	1754080	ICS25-F45-2M12-9005	1754085	
20 mm	 RAL 5015									
25 mm / 50 mm	 RAL 5015	ICS25-F67S-5015	1071639	ICS25-F45D15-5015	1071634	ICS25-F22-M12-5015	1754066	ICS25-F45-2M12-5015	1754084	
20 mm	 RAL 1018									
25 mm / 50 mm	 RAL 1018	ICS25-F67S-1018	1287374	ICS25-F45D15-1018	1287375	ICS25-F22-M12-1018	1754064	ICS25-F45-2M12-1018	1754071	

Connectors for fillers					
COAX	USB	RJ45	D-SUB 9	D-SUB 15	M12
					
1340153 (for 6.4 mm)	1332631	1149868 (without LED)	1688382	1688081	1437038 (male)
1340152 (for 6.4 mm)	1332634	1149866 (with LED)	1688405	1688120	1416145 (screw connection male)
	1332637				1437009 (female)
					1416144 (screw conn. fem.)



Go directly to the online configurator

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

 Web code: #0512

ICS series configuration overview

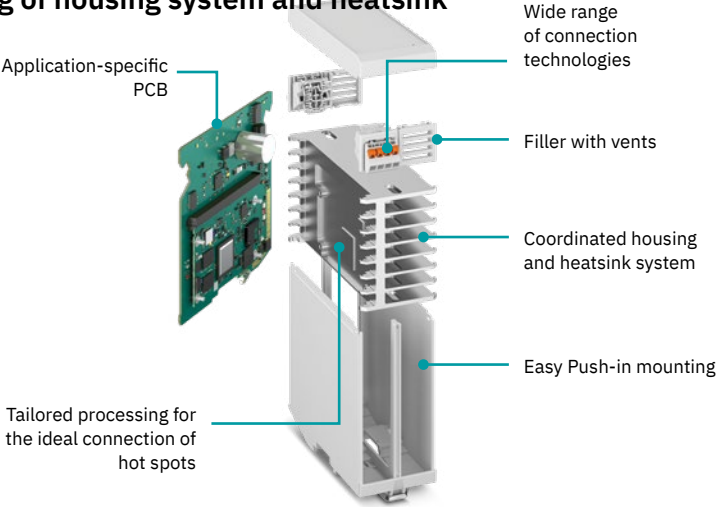
Heatsink								
	Heatsink dimensions ¹⁾							
	Height	Length	Width	Type	Item no.	Distance from base to PCB	Base thickness ⁴⁾	Recommended housing use
	25 mm	25 mm ²⁾	22.4 mm	ICE25-F22H-A1	1328704	0 mm (0 mm ... 11 mm) ³⁾	4 mm	ICS housing in widths of 25 mm and 50 mm
	25 mm	25 mm ²⁾	44.9 mm	ICE25-F45H-A1	1328703	0 mm (0 mm ... 11 mm) ³⁾	4 mm	ICS housing in widths of 25 mm and 50 mm
	25 mm	105 mm	22.4 mm	ICE25-R100X22-A1	1328715	4 mm (0 mm ... 11 mm) ³⁾	4 mm	ICS housing in widths of 25 mm and 50 mm
	25 mm	105 mm	44.9 mm	ICE25-R100X45-A1	1328714	4 mm (0 mm ... 11 mm) ³⁾	4 mm	ICS housing in widths of 25 mm and 50 mm
	50.1 mm	105 mm	22.4 mm	ICE50-R100X22-A1	1328713	4 mm (0 mm ... 11 mm) ³⁾	6 mm	ICS housing in width of 50 mm
	50.1 mm	105 mm	44.9 mm	ICE50-R100X45-A1	1328712	4 mm (0 mm ... 11 mm) ³⁾	6 mm	ICS housing in width of 50 mm
	50.1 mm	105 mm	67.4 mm	ICE50-R100X67-A1	1118306	4 mm	6 mm	ICS housing in width of 50 mm
	25 mm	127.5 mm	22.4 mm	ICE25-R122X22-A1	1328711	4 mm (0 mm ... 11 mm) ³⁾	4 mm	ICS housing in widths of 25 mm and 50 mm
	25 mm	127.5 mm	44.9 mm	ICE25-R122X45-A1	1328708	4 mm (0 mm ... 11 mm) ³⁾	4 mm	ICS housing in widths of 25 mm and 50 mm
	50.1 mm	127.5 mm	22.4 mm	ICE50-R122X22-A1	1328707	4 mm (0 mm ... 11 mm) ³⁾	6 mm	ICS housing in width of 50 mm
	50.1 mm	127.5 mm	44.9 mm	ICE50-R122X45-A1	1328706	4 mm (0 mm ... 11 mm) ³⁾	6 mm	ICS housing in width of 50 mm
	50.1 mm	127.5 mm	67.4 mm	ICE50-R122X67-A1	1118305	4 mm	6 mm	ICS housing in width of 50 mm

1) Relationship between heatsink dimensions and housing dimensions: 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 (more information starting on page 109).
4) The base can be custom-milled for different component heights. A minimum base thickness of 2 mm is recommended.

Your comprehensive solution consisting of housing system and heatsink

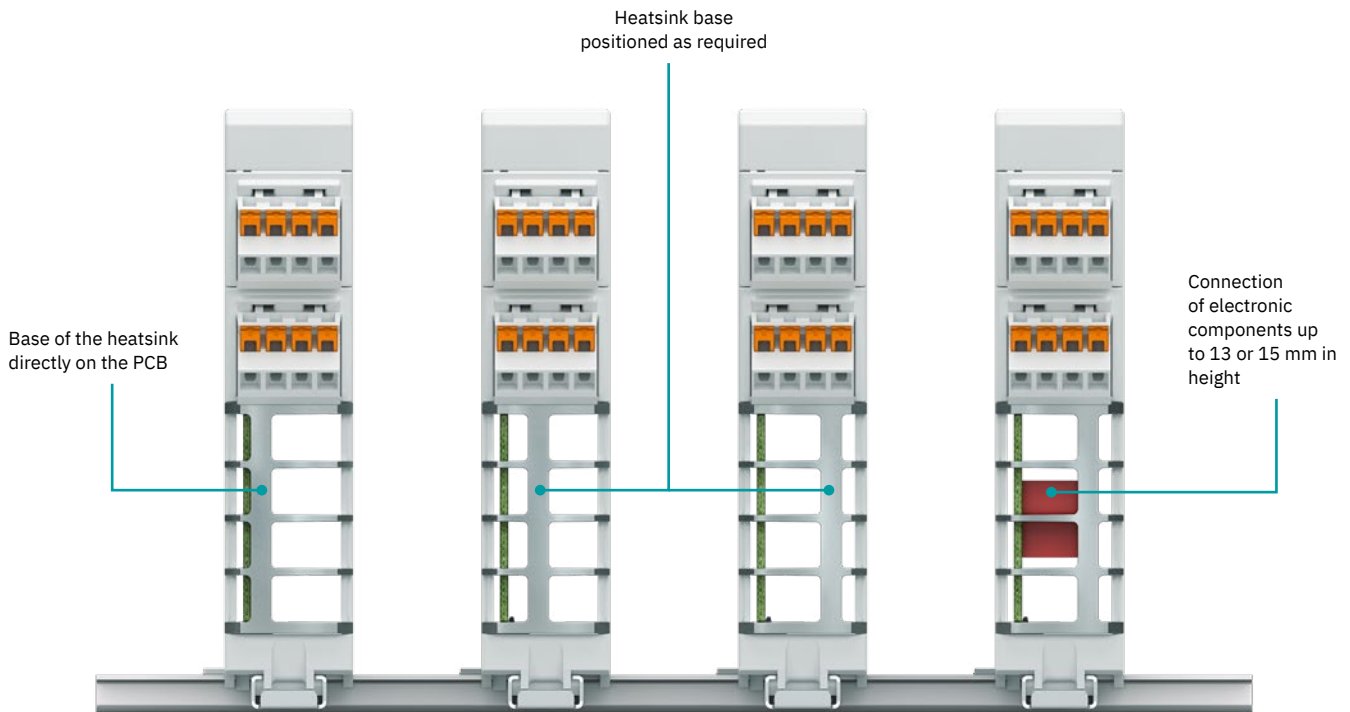
Use the ICS housing system heatsinks for the targeted optimization of heat transport. Using a heatsink allows you to benefit from the longer service life of electronic components.

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



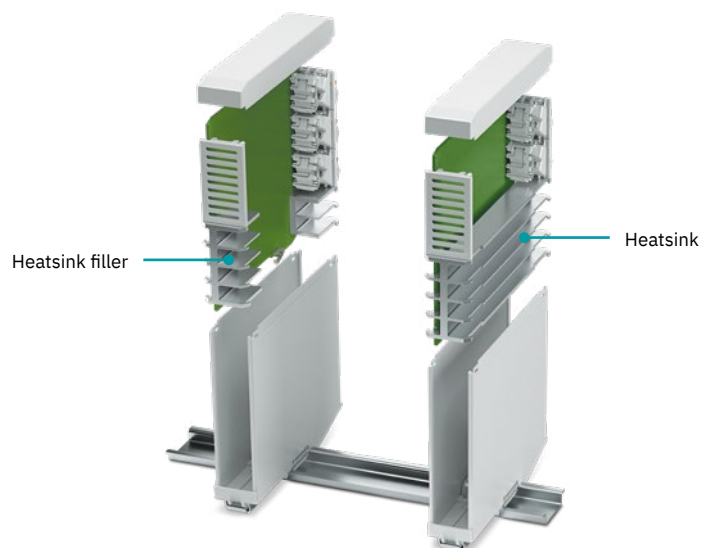
Positioned as required

The heatsinks in the ICS housing family are designed to allow you to connect electronic components with 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.



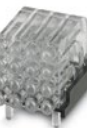
Optimal heatsink design

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. In addition to heatsinks, in our portfolio we also offer space-saving heatsink fillers for selective heat dissipation.



ICS series configuration overview

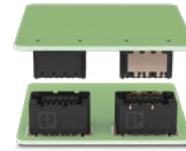
 Product list web code: #1636

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
					
Design	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" touch display, 10 Pcs./Pkt. ICS50 cover with 2.4" touch display, 1 Pcs./Pkt.
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 ICS50-C100x12-D2,4-TRG-7035-VPE1
Item no.	1215686	1215683	1215685	1215684	1077656 1226370

Accessories					
FE contact	Base latch for housing height 77 mm	Base latch for housing height 100 mm	Base latch for housing height 122 mm	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



ScaleX

Description

PCB spacing 9.5 mm (ICS 20)

	Number of positions	12	20	32	52	80
Female connector strip, shielded	Item no.	1043682	1053614	1043683	1043684	1043685
Male connector strip, shielded	Item no.	1043786	1053586	1043787	1043789	1043790
Female connector strip, unshielded	Item no.	1061580	1061583	1061584	1061585	1061586
Male connector strip, unshielded	Item no.	1061725	1061727	1061728	1061729	1061730

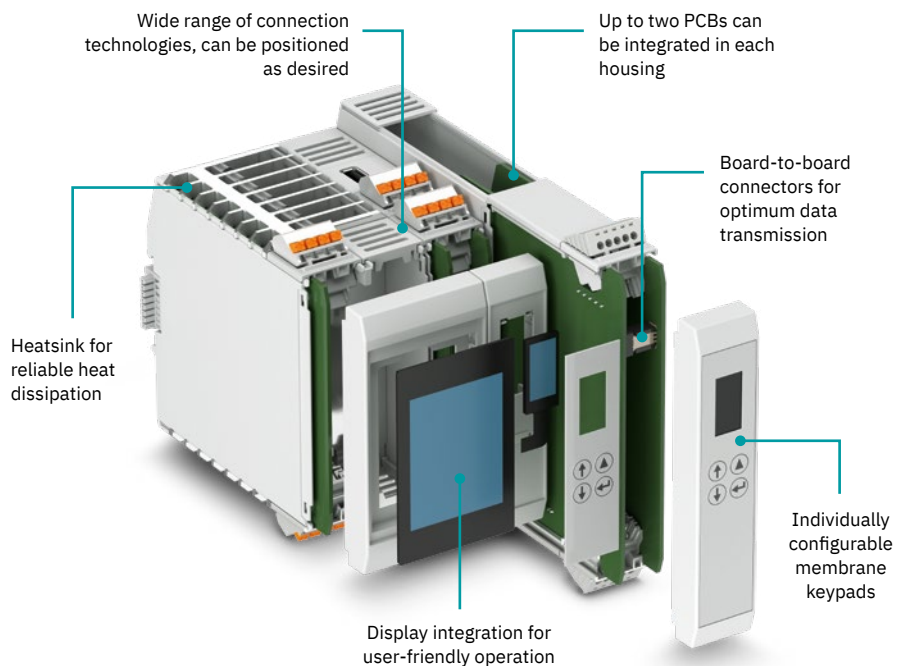
Description

PCB spacing 14.5 mm (ICS 25)

	Number of positions	12	20	32	52	80
Female connector strip, shielded	Item no.	1043710	1053612	1043711	1043713	1043714
Male connector strip, shielded	Item no.	1154119	1154120	1154121	1154122	1154123
Female connector strip, unshielded	Item no.	1061643	1061660	1061662	1061666	1061667
Male connector strip, unshielded	Item no.	1154012	1154013	1154014	1154015	1154016

ICS as the ideal housing system for your device application

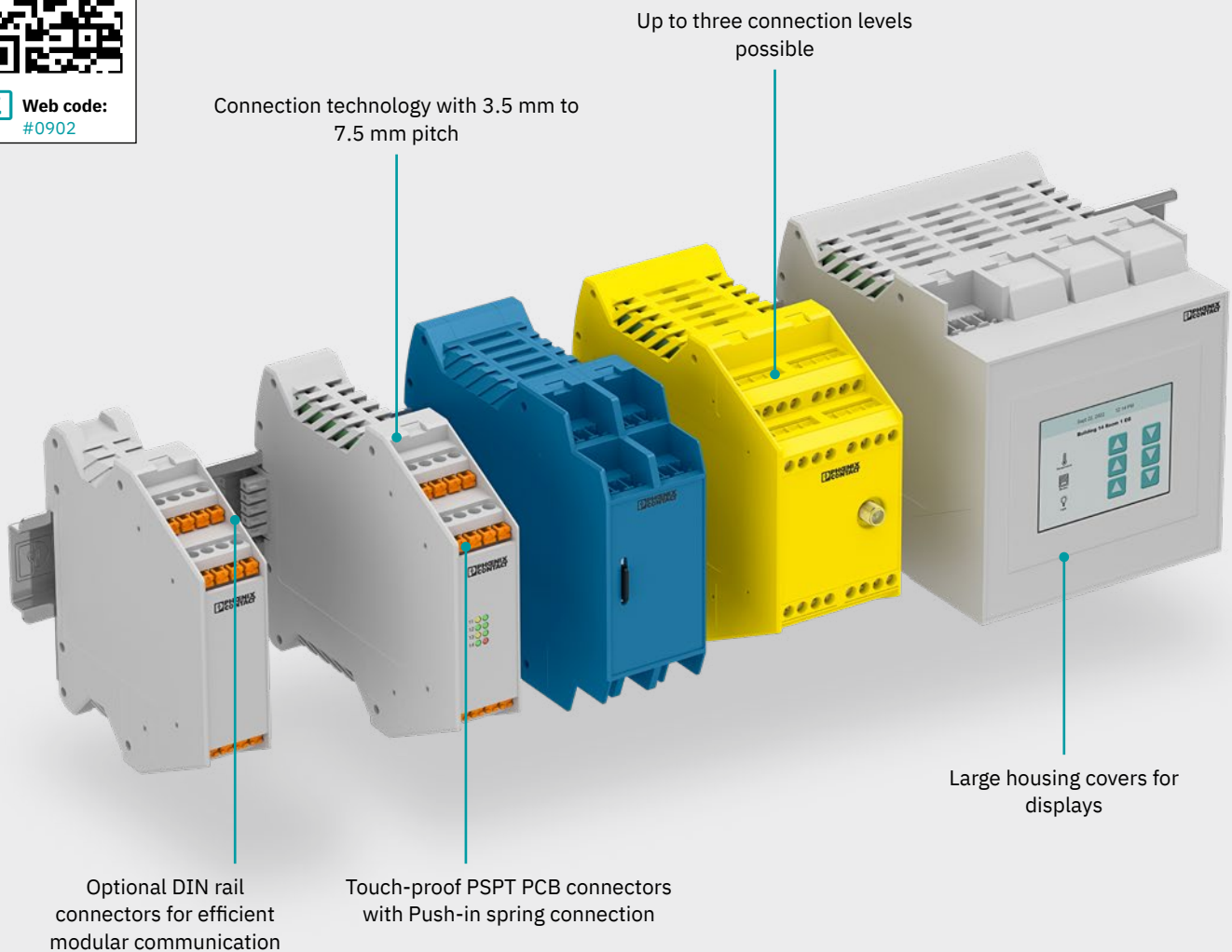
Benefit from the comprehensive selection of modules and high level of flexibility with regard to the connection technology. Take advantage of the unique possibilities afforded by the ICS housing series and create your own individual design. The ICS series housings also provide you with a broad portfolio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



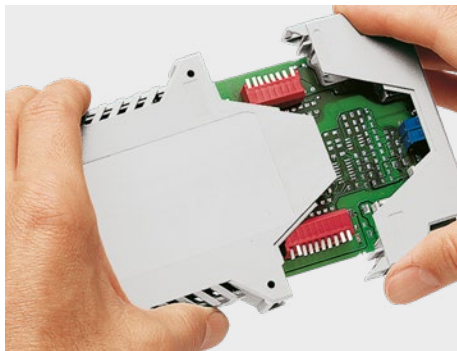
ME modular housings

With an easy-to-install cup shape

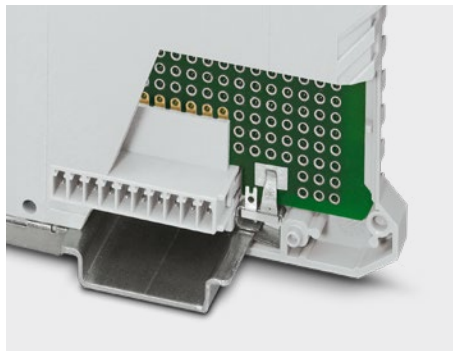
Modular electronics housings from the ME series transform assembled PCBs into easy-to-install and easy-to-service electronics modules. Variable connection technology with up to 120 positions, bus connectors, and modularity ensure the device configuration matches the application. Comprehensive accessories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



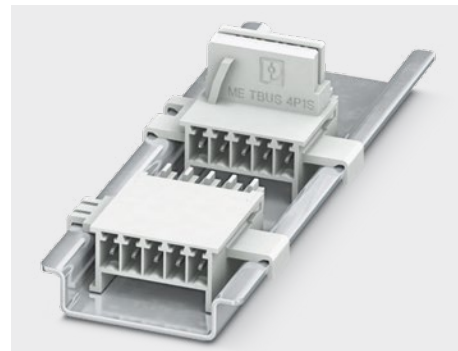
Your advantages



Cup principle for short installation times.



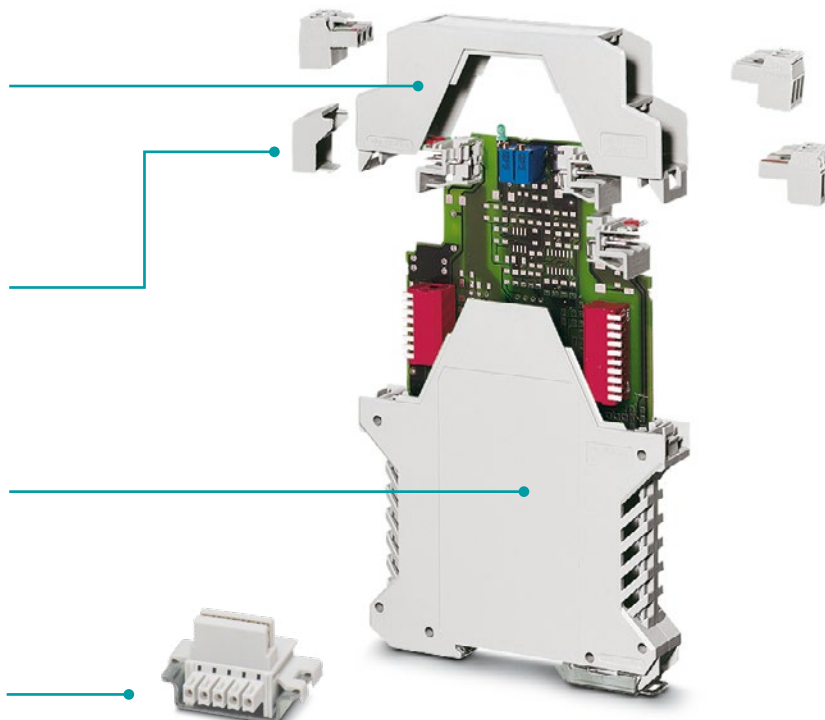
Functional ground contact and bus connector integrated in the housing with up to 12 positions.



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

Configure your desired product

- 3** Choose the matching upper housing part
- 4** Select the connection technology or filler plug (pages 116 to 119)
- 1** Select the lower housing part
- 2** Add optional 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	6021	9005	5015	3001	1018
2003	7031	7032	9002	9010	8019

Other colors 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 connectors
			5 parallel positions	5 parallel positions, 2 serial positions	10 parallel positions	10 parallel positions, 2 serial 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					

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2 DIN rail connector ⁵⁾			3 Upper housing part					
3.81 mm pitch			PCB terminal blocks		Connectors with header			
5 parallel positions	4 parallel positions, 1 series position	Adapter piece, 5 parallel positions	Screw connection	Spring connection	Single-level	Double-level	Double-level	Three-level
								
ME ... TBUS ...	ME ... TBUS ... 4P1S	ME ... TBUS ADAPTER	ME ... OTU-MKDSO	ME ... OT-FKDSO	ME ... OT-1MSTBO	ME ... OT-MSTBO	ME... OTP-MSTBO-PS	ME ... OT-3MSTBO
			2278869	2200321		2854775		
2713645	2201731	2201757	2278940	2200322		2853747	2279253 ⁸⁾	
2713722	2201732	2201756	2278953	2200323	2914877	2907761	2279282 ⁷⁾	2914880
2713645 ²⁾	2201731 ²⁾	2201757 ²⁾	2x 2278940	2x 2200322		2914864		
			2x 2278953	2200327	2709299	2854429		2x 2914880
2713722 ²⁾	2201732 ²⁾	2201756 ²⁾	3x 2278953	3x 2200323	2200522 ⁴⁾	3x 2907761		3x 2914880
			4x 2278953	2x 2200327	2200523 ⁴⁾	2x 2854429		4x 2914880
2278953	2201732	2201756	22788953	2200323	2914877	2907761	2279282 ⁸⁾	2914880
2713722	2201732	2201756	2278953	2200323	2914877	2907761	2279282 ⁸⁾	2914880

- 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 [2278076](#) for ME...UT BUS... and [2908294](#) for ME UT ...
Note: The lower housing parts shown here are also available without vents and in other colors.
4) Upper housing part suitable for integration of display frames [2203537](#), [2203538](#), and [2203539](#).

- 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 upper part ME 17,5 OTP-MSTBO-PS, an additional plate is required: [2279266](#).
8) When using the upper part ME 22,5 OTP-MSTBO-PS, an additional plate is required: [2279279](#).

ME series configuration overview: PCB connectors

3 Upper housing part				
	Width	Max. number of positions		
		Pitch		
		3.5 mm	5 mm	7.25 mm
 ME ... OT-1MSTBO	22.5 mm	5	4	3
	45 mm	10	8	6
	67.5 mm	15	12	9
	90 mm	20	16	12
 ME ... OT-MSTBO	12.5 mm	12	8	
	17.5 mm	16	12	8
	22.5 mm	20	16	12
	35 mm	32	24	16
	45 mm	40	32	24
 ME ... OT-3MSTBO	22.5 mm	30	24	18
 ME ... OTP-MSTBO-PS	17.5	16	12	
	22.5	20	16	

4 Connection technology									
3.5 mm pitch									
Headers		Connectors and connector locking mechanism					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 ...		
2278380	2278351	1769087		1773581		1773604	2907774	2907787	
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	
2278380	2278351	1769087		1773581		1773604	2907774	2907787	
2278364	2278377	1769087	2279842	1773578	2279949	1773594	2853750	2853763	
2278380	2278351	1769087	2279745	1773581	2279648	1773604	2907774	2907787	

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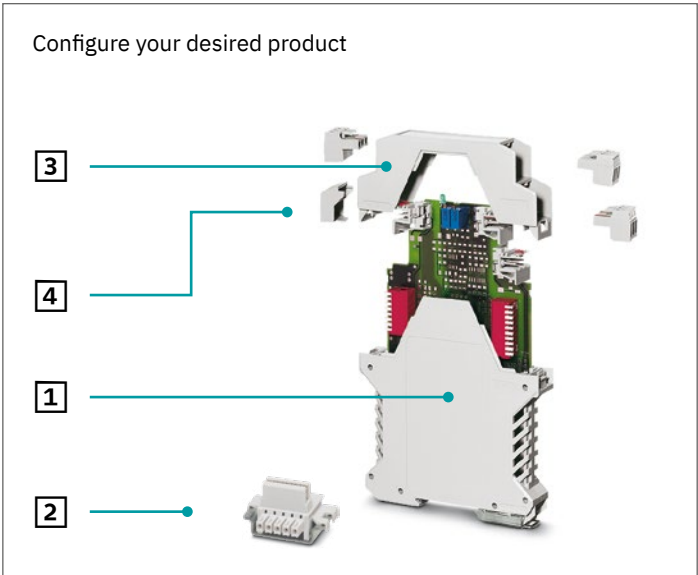
 Web code: #0512

Headers, connectors and connector locking mechanism														Filler plugs
5 mm pitch										7.25 mm pitch				
Headers								Connectors and connector locking mechanism			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					2x 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	8
	17.5 mm	16	12
	22.5 mm	20	16
	45 mm	40	32
 ME ... OT-FKDSO	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			
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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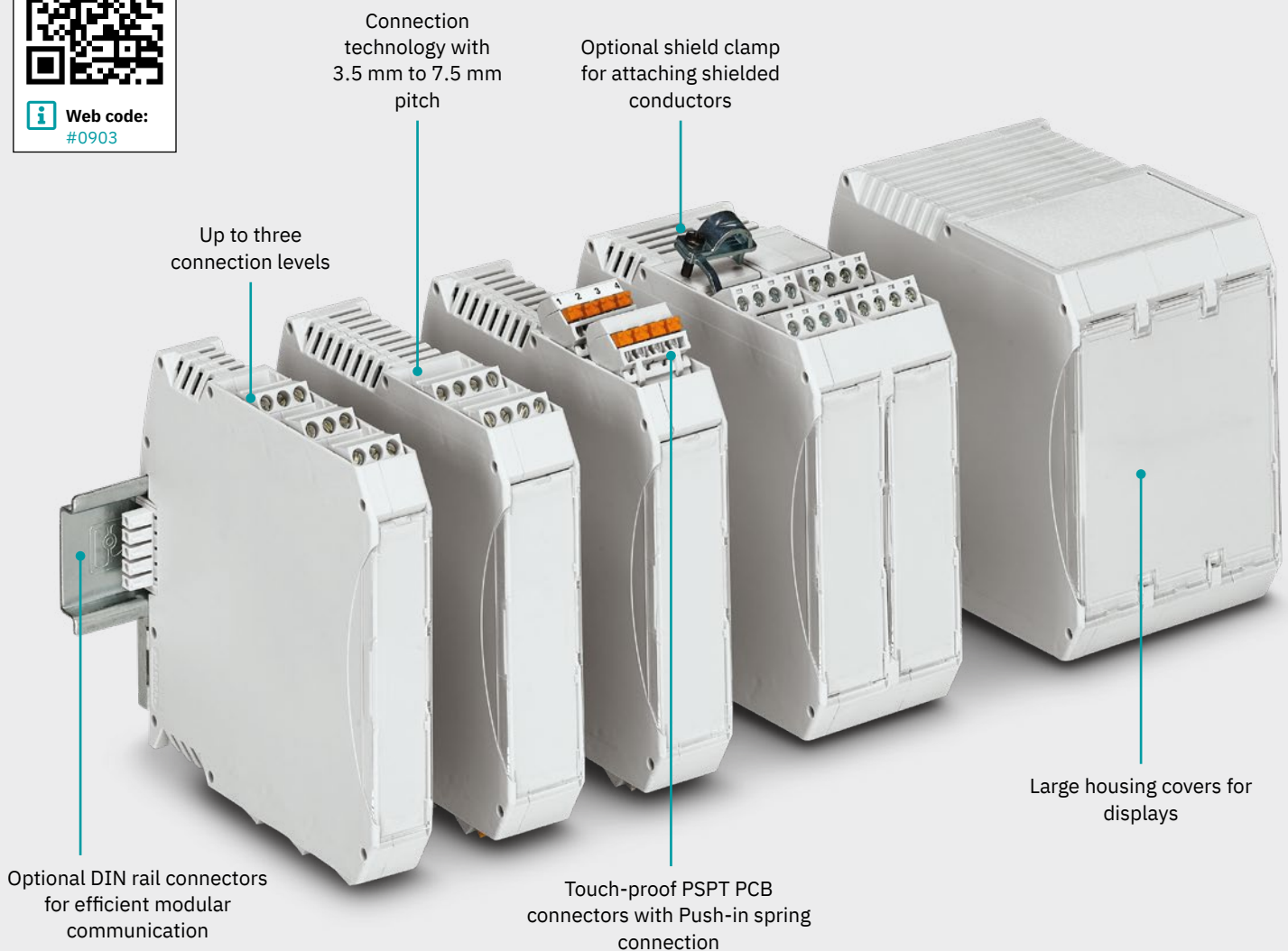
 Web code: #0512

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

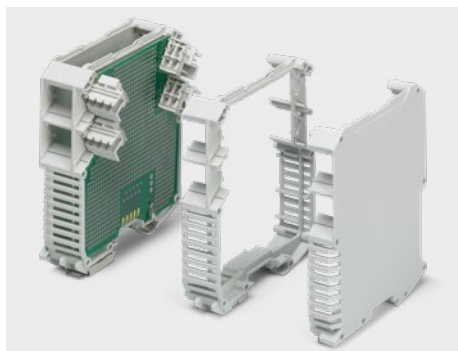
ME MAX modular housings

With a flexible modular design

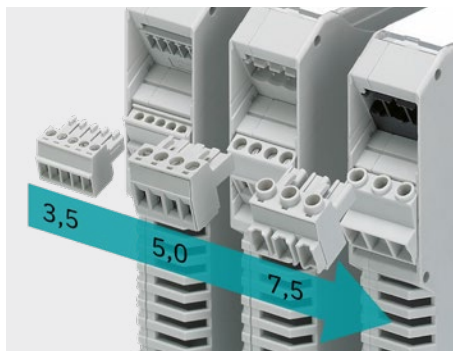
The modular, design-oriented ME MAX electronics housings are ideal for modern industrial electronics: They can be mounted efficiently and their overall width flexibly extended. Furthermore, they feature variable connection technology with up to 120 positions. The DIN rail housings can be connected on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



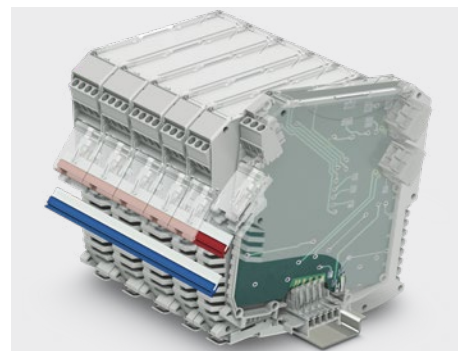
Your advantages



Modular housing design enables variable electronics solutions.



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



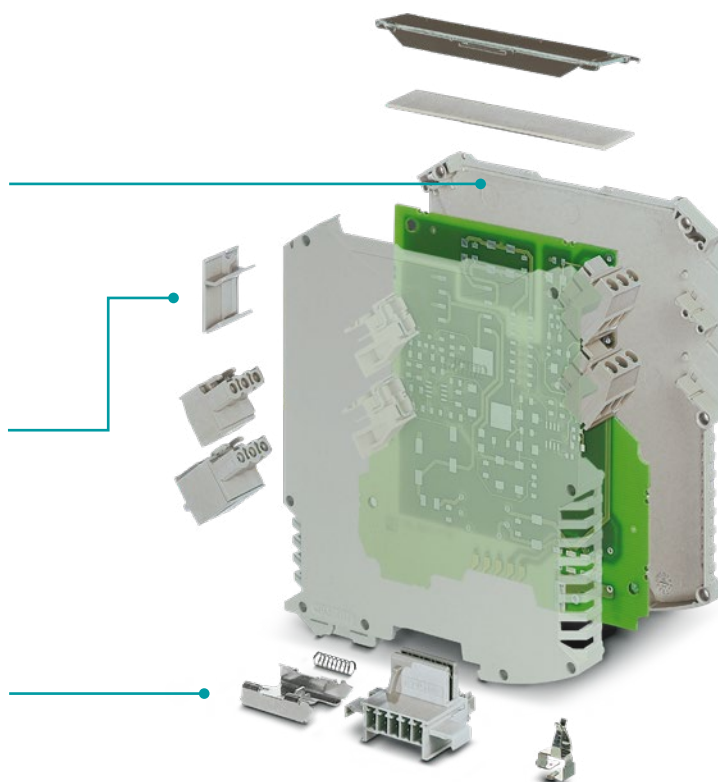
TBUS DIN rail cross-connectors and PCO power connectors for module-to-module communication.

Configure your desired product

1 Select the housing

3 Select the connection technology or filler plug (pages 124 to 127)

2 Add optional DIN rail connector and power connector



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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 on request.

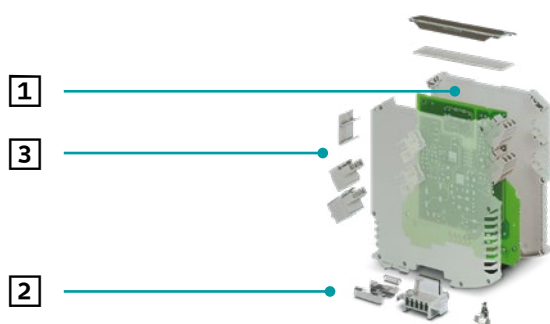
Test the ME MAX series and get in touch with your sales contact person (sample set: 52005224).

ME MAX series configuration overview

1 Housing

Housing	Housing width	Item no.	Max. number of positions			Item no.	Max. number of positions			Item no.	Max. number of positions			
			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					

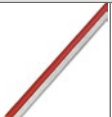
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					2 DIN rail connector ⁷⁾			3 Power connector up to 42 A				
Item no.	Max. number of positions				3.81 mm pitch			Left	Cross-connector			
	Pitch				5 parallel positions	4 parallel positions, 1 series position	Adapter piece, 5 parallel positions					
	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					
Housing	Housing width	Item no.			
					
		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⁾	2279020			
	12.5 mm, without ³⁾	2279017			
	17.5 mm, with ³⁾	2713612	2713599	2713641	2201536
	17.5 mm, without ³⁾	2713531	2713609	2713515	2201537
	22.5 mm, with ³⁾	2713939	2713625	2713476	2201538
	22.5 mm, without ³⁾	2713942	2713638	2713489	2201539
	35 mm, with ³⁾	2713696	2713670	2713667	
	35 mm, without ³⁾	2713544	2713683	2713528	
	45 mm, with ³⁾	2713913	2713706	2713492	2201682
 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		

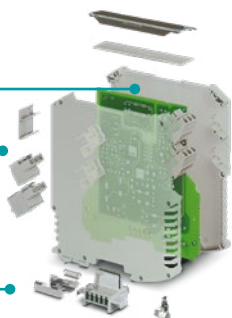
3 Connection technology						
3.5 mm pitch						
Headers		Connectors			Headers	
Wave soldering		Screw	Push-in	Push-in	Wave soldering	
Left	Right				Left	Right
						
MCO 1,5/ ... G1 ... -3,5		MC	FMC	FK-MCP	MSTBO 2,5/ ... G1 ...	
2278319	2278322	1769061			2854788	2854791
2278364	2278377	1769074	1773578	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					
Housing	Housing width	Item no.			
					
		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		

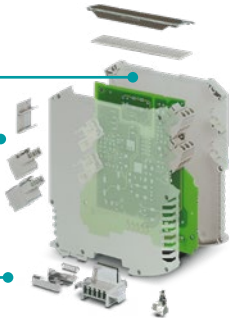
3 Connection technology	
3.5 mm pitch	
Screw	
Left	Right
	
MKDSO 1,5	
2278445	2278458
2278432	2278429
2278393	2278416
2278432	2278429
2278393	2278416
2278432	2278429
2278393	2278416

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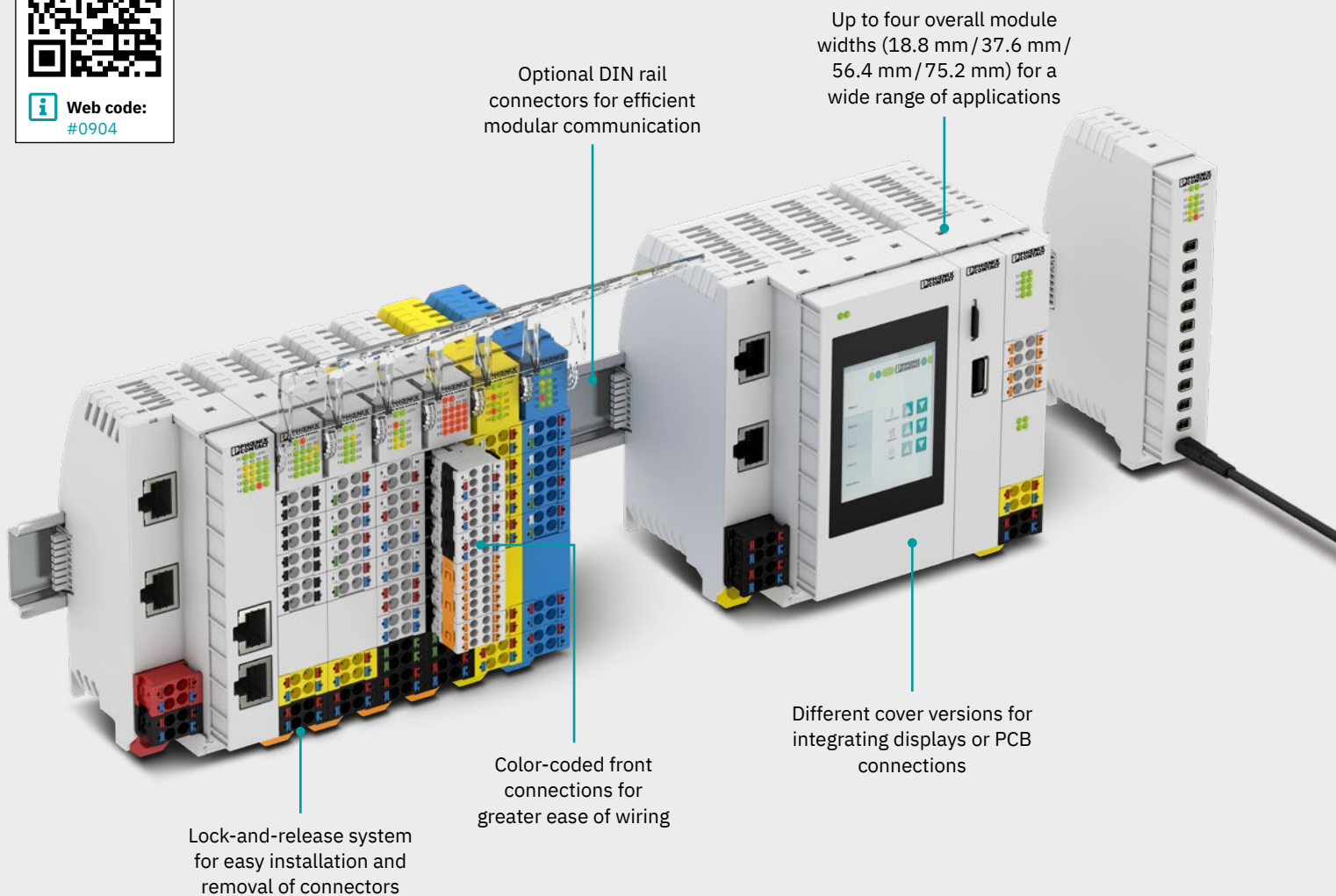
PCB terminal blocks								Filler plugs
5 mm pitch		7.5 mm pitch		5 mm pitch		7.5 mm pitch		
Screw		Screw		Push-in		Push-in		
Left	Right	Left	Right	Left	Right	Left	Right	
								
MKDSO 2,5		MKDSO 2,5 HV		FKDSO 2,5		FKDSO 2,5 HV		ME MAX B- ...
2915261	2915258			2200315	2200316			2914660
2854102	2854092	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

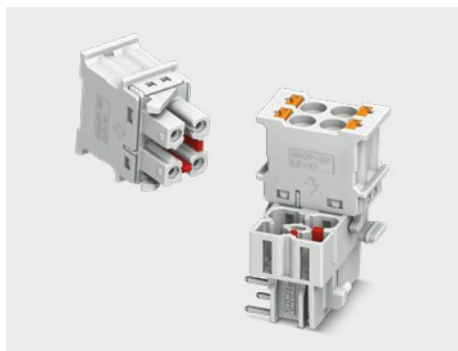
ME-IO multifunctional housings

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 with their modular design. The Push-in front connection technology and compact design enable the realization of individual devices with up to 48 positions per overall width of 18.8 mm.



Your advantages



More reliable connection with optional coding elements in connectors and headers.



Blockbelts enable connector types to be mechanically grouped in any way in extremely tight spaces.



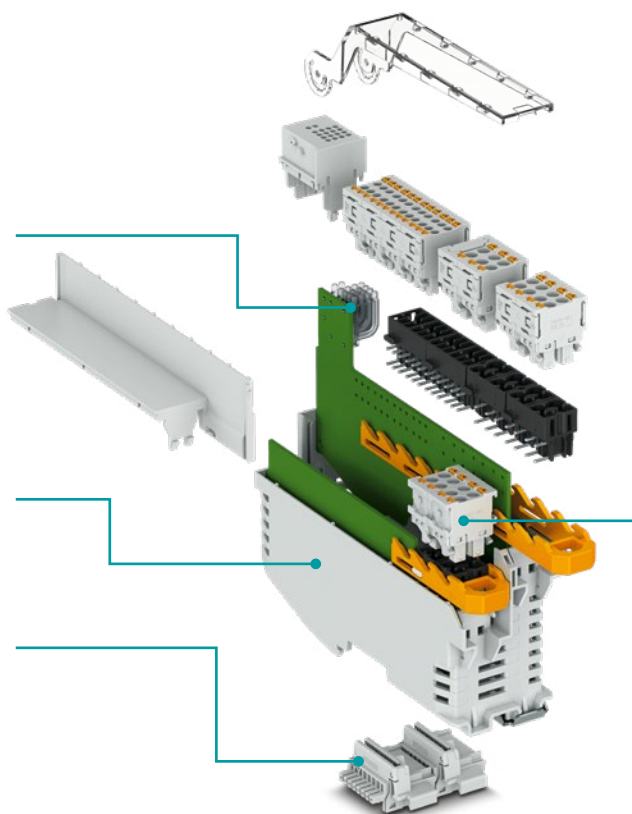
Can be combined with the ICS housing family via the 8-pos. TBUS DIN rail connector.

Configure your desired product

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

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

 **Web code: #0512**

Housing color options (based on RAL color system):

■ 7035

Other colors 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

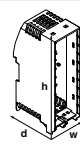
NEW

Designation: TBUS 18,8 ...

No. of pos.	8-position						
Description	8 parallel	7 parallel, 1 serial	6 parallel, 2 serial	4 parallel, 4 serial	Bridge	Feed-in	Load pick-off
							
Item no.	2202396	2202399	2202403	1140958	1387014	1488805	1488806

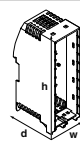
2 Standard lower housing part (PCB area max. ~6,580 mm²/18.8 mm width)

Designation: ME-IO ... B/LB ... (Modular Enclosure – IO ... Base/Low Base)

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 Extended lower housing part (PCB area max. ~8,510 mm²/18.8 mm width)

Designation: ME-IO ... EB/LEB ... (Modular Enclosure – IO ... Extended Base/Low Extended Base)

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.

 Web code: #0512

3 Connection technology – lock-and-release system (based on the number of connectors)

Designation: HSC-LR ... (Housing System Connection – Lock-and-Release...)

Description	9U L and R	7U L and R	5U L and R	3U L and 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 – headers (other versions available on request depending on the front connection technology connector)

Designation: HSCH ... (Housing System Connection Header)

Conductor cross-section	2.5 mm ²					1.5 mm ²	
Compatible connector type	4-position	4-position	4-position and 2-position, bottom	2-position, bridged	4-position and 2-position, bridged	6-position	6-position
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 – connectors¹⁾

Designation: HSCP-SP (Housing System Connection Plug – Spring)

Description	Standard types					
Conductor cross-section	2.5 mm ²					1.5 mm ²
Connector type	4-position	2 position, bridged ²⁾	2-position Bottom	2-position Top	Filler plugs	6-position
Actuating push button color similar to	 RAL 2011	 RAL 2011	 RAL 2011	 RAL 2011		 RAL 2011
						
Item no.	2201780	2201781	2201782	1081099	2202610	2202234

Description Actuating push button standard color options¹⁾

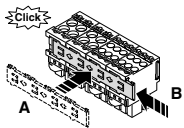
Conductor cross-section	2.5 mm ²						
Connector type	4-position	4-position	4-position	4-position	4-position	4-position	2 position, bridged ²⁾
Actuating push button color similar to:	 RAL 1018	 RAL 9010	 RAL 9005	 RAL 5015	 RAL 6021	 RAL 3013	 RAL 6021
							
Item no.	2202567	2202568	2202569	2202570	2202571	2202572	2202607

Description Actuating push button combination color options¹⁾

Conductor cross-section	2.5 mm ²						1.5 mm ²
Connector type	4-position	4-position	4-position	4-position	4-position	2 position, bridged ²⁾	6-position
							
Item no.	2202605	2202608	2203192	2203194	2203195	2202606	2202609

3 Connection technology – accessories

Designation: HSCP-CB (Housing System Connection Plug – Connection Belt)

Description	Blockbelts					Coding pins
Pitch	2U	3U	4U	5U	6U	
						
Item no.	1056724	1056723	1056722	1056892	1037100	1790647

¹⁾ Other versions available on request.

²⁾ Ideal for potential distribution.

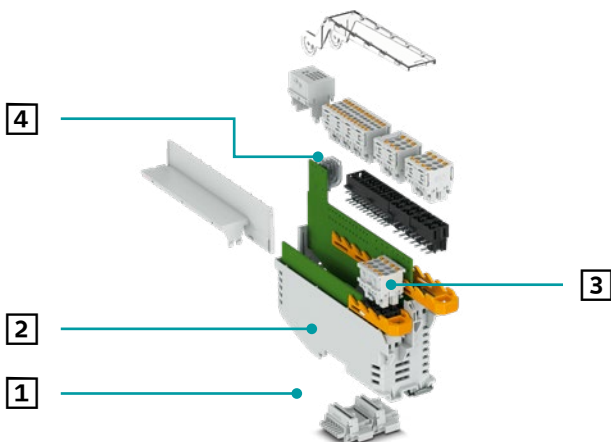
3 Housing cover ¹⁾

Designation: ME-IO ... C ... (Modular Enclosure – IO ... Cover...)

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	

¹⁾ Housing cover depends on the connection technology.

Configure your desired product



Go directly to the online configurator

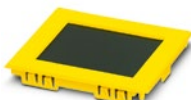
Simply enter the web code into the search field on our website.

 Web code: #0512

ME-IO series configuration overview

 Product list web code: #0308

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 – versions

Connectors for fillers

Description	RJ45			Single Pair Ethernet	USB		COAX
Slots	SMD female	LB cover 2 RJ45 jacks 8U	LB cover 2 RJ45 jacks 10U	SPE PCB connector	Type C	Type A	
							
Item no. for wave	1149874	1224119	1224121	1163797	1332643	1332634	1340151

¹⁾ For installation in 2202581 and 2202582

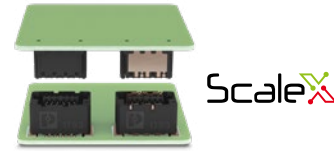
²⁾ For installation in 2202582

³⁾ For installation in 2202581

⁴⁾ Display frame can be integrated into 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)



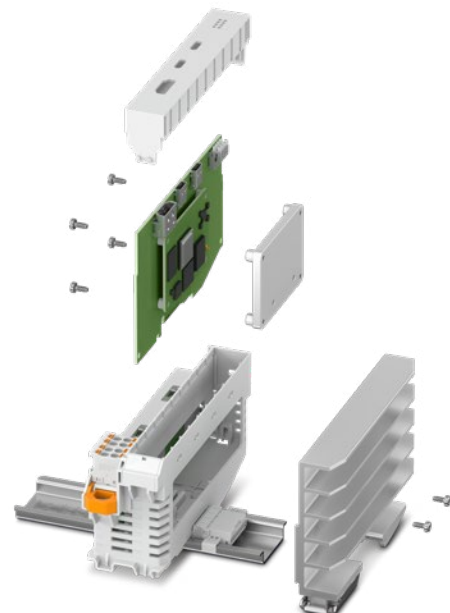
Description		Shielded				
	Number of positions	12	20	32	52	80
Female connector strip	Item no.	1043682	1053614	1043683	1043684	1043685
Male connector strip	Item no.	1154119	1154120	1154121	1154122	1154123
Description		Unshielded				
	Number of positions	12	20	32	52	80
Female connector strip	Item no.	1061580	1061583	1061584	1061585	1061586
Male connector strip	Item no.	1154012	1154013	1154014	1154015	1154016

Heatsinks (in combination with a processed housing)

	Description	Type	Item no.
	Heatsink	ME-IO HS 18,8 SET AL	1726193

Heatsinks for particularly demanding applications

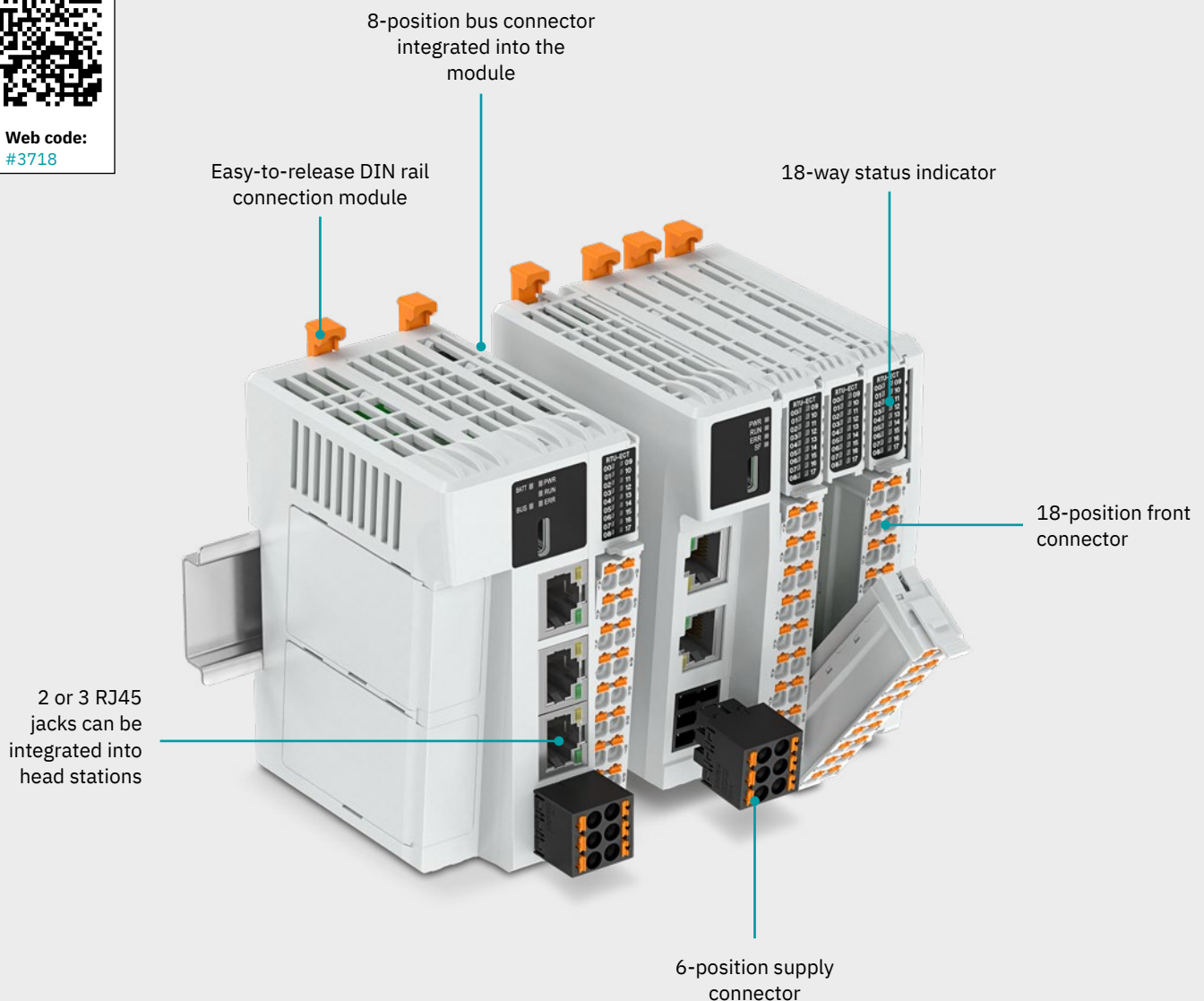
In order to achieve a targeted optimization of the heat transport, a heat spreader, customized for the application, together with a heatsink can be contacted on the right-hand PCB. By using a TBUS bridge, the data and signals are transmitted from the module to the right-aligned module. Using a heatsink can increase the service life of the electronic devices.



ME-IO Slim multifunctional housings

With front connection technology

The ME-IO Slim housing system is ideal for controllers that require a high density of front connection technology, but the comprehensive features of the ME-IO are not required. With a module width of 12 mm, a compact system design is possible. The 18-position front connectors can be contacted directly on the PCB. This makes the ME-IO Slim the perfect housing range for price-sensitive I/O applications.

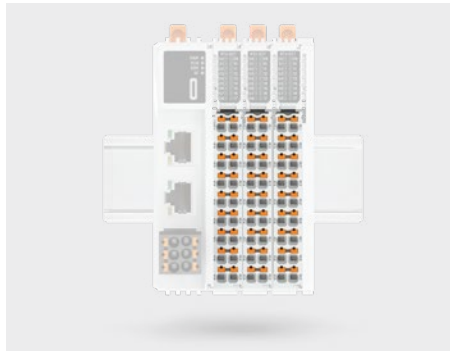


Your advantages



Space-saving status indicator

Easy integration of the status indicator without complex fiber optics.



Predefined front connectors

The 18-position front connectors are supplied pre-printed. This enables easy wiring.



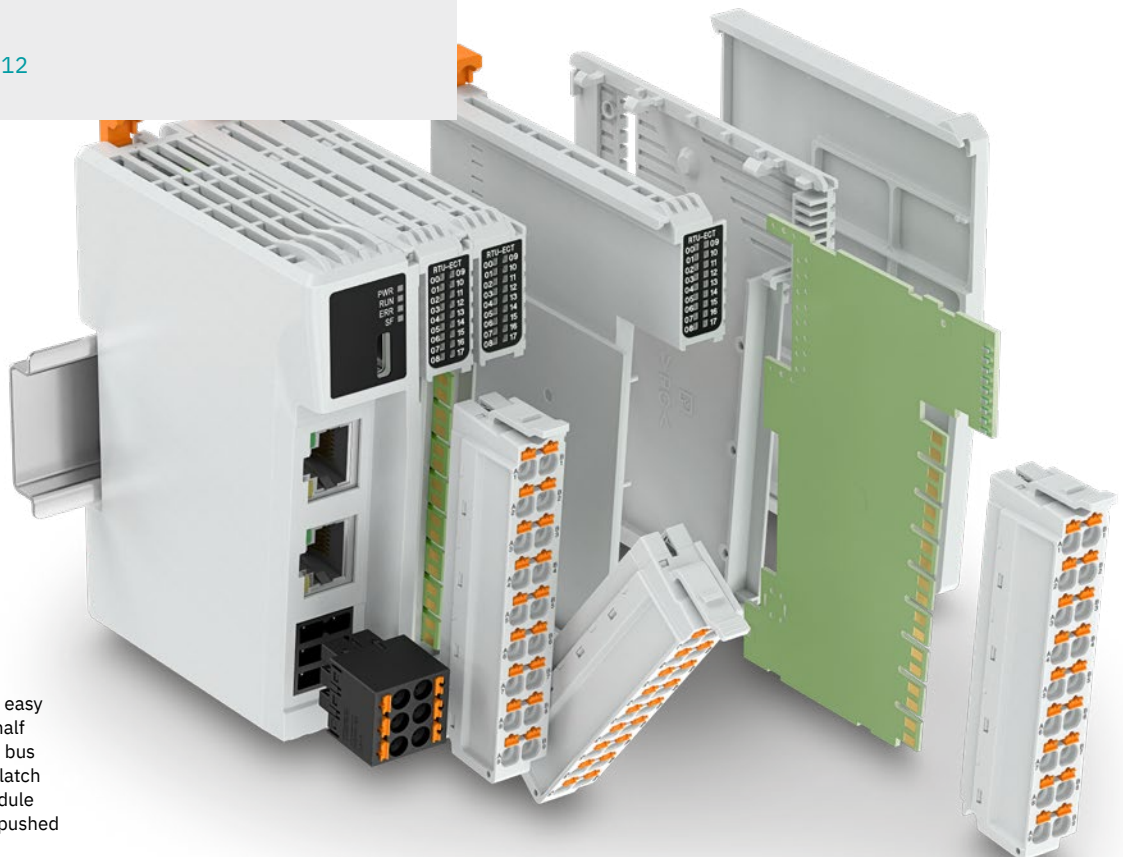
Further connection technology

Connections such as RJ45 and USB-C are already predefined for the CPU and coupler module and can be integrated seamlessly into the application. This means that you can get everything from a single source.

Go directly to the online configurator

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

 **Web code: #0512**



The ME-IO Slim is extremely easy to set up. Consisting of two half shells, only the PCB with the bus and the spring and the base latch need to be inserted. The module can then be assembled and pushed onto the DIN rail.

ME-IO Slim series configuration overview

1 Housing modules			
	Description	Type	Item no.
	CPU housing	ME-IO-S 55 CPU 100 7035	1632614
	Coupler housing	ME-IO-S 24 COUPLER 100 7035	1569887
	IO housing	ME-IO-S 12 IO 100 7035	1569889

2 Front connectors			
	Description	Type	Item no.
	18-position front connector, printed	HSCP-SP 1,5-18-IO-7035	1569965
	6-position supply connector	HSCP-SP 1,5-6 POWER-9005	1634000
	6-position header for supply connectors	HSCH-S 1,5-6 POWER-9005	1633999

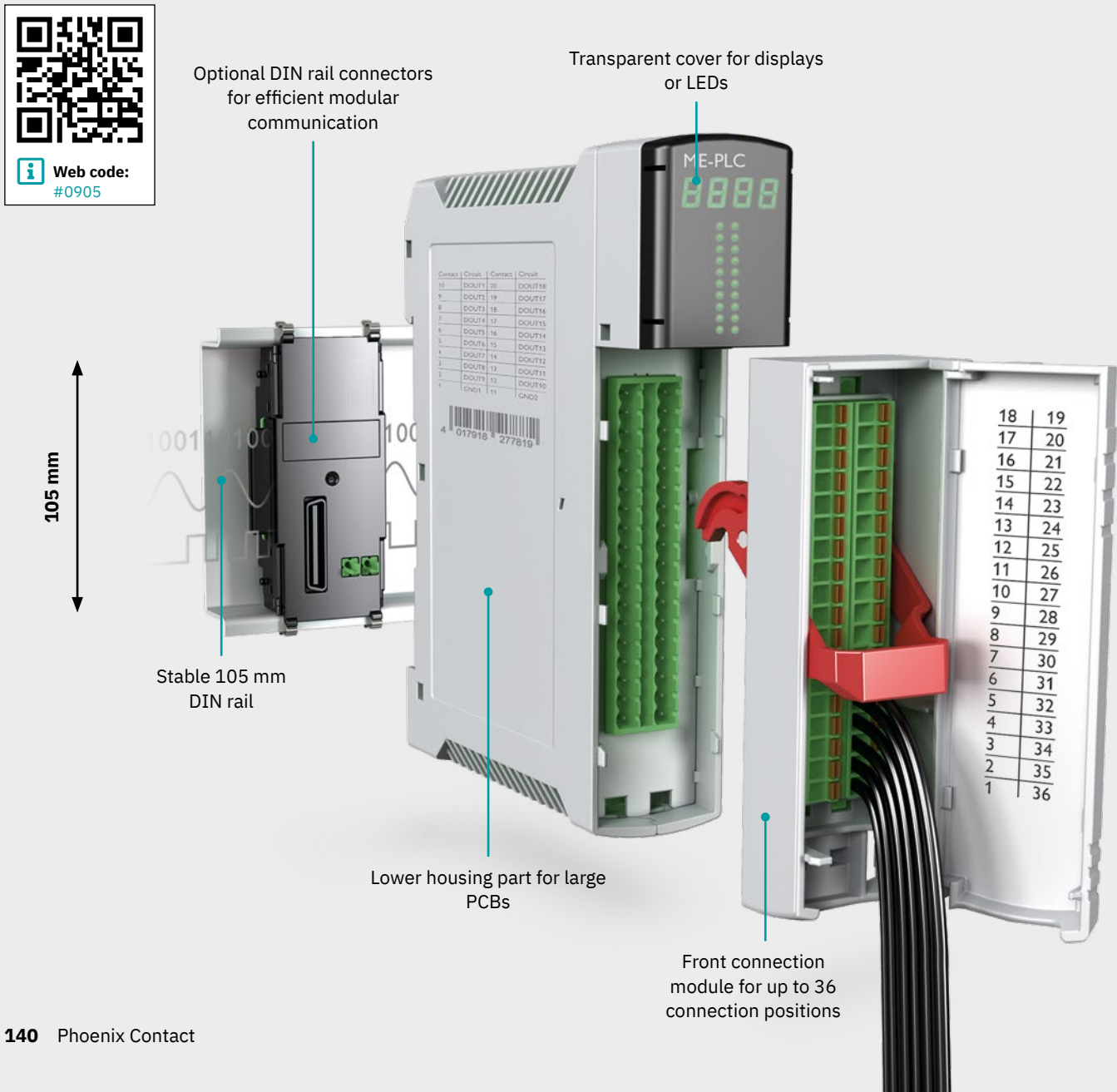
ME-IO Slim series configuration overview

3 Accessories			
	Description	Type	Item no.
	Bus connector	ME-IO-S BUS8-9005	1569885
	FE contact	ME-IO-S FE CONTACT SMT	1569960
	End cover	ME-IO-S cover 100 7035	1569961
	RJ45 PCB connector	CUC-SP-J1ST-A/R4LB-LED	1149866
	USB-C PCB connector	CUC-USB3.1-J1ST-AH/UCF-SMD/THR	1332643

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.

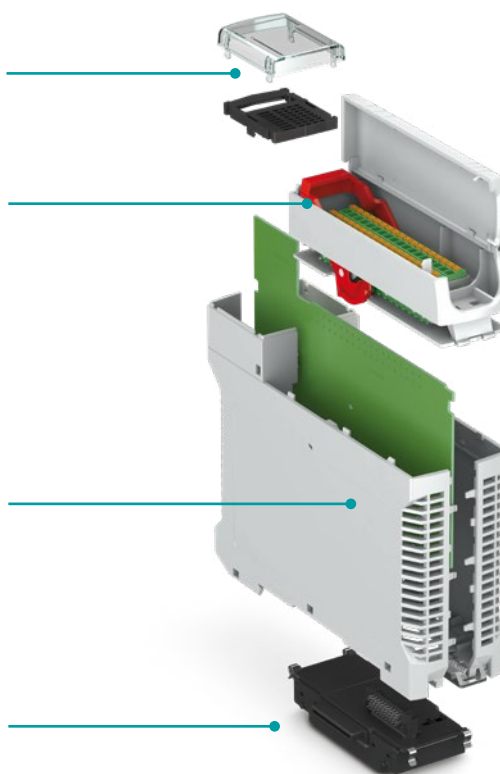
Configure your desired product

4 Select the housing termination

3 Select the front connection module

1 Select the lower housing part

2 Specify DIN rail connector



Go directly to the online configurator

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

 **Web code:** #0512

Housing color options (based on RAL color system):

■ 7035 ■ 9005 ■ 5015 ■ 1018

Other colors 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 connector

	Description	Type	Item no.
	Set including FE contact, 50-/40-pos. connector without PCB	ME PLC 40 BUS 50/40 KIT BK	2201502
	Set including FE contact, 2x 10-pos. connector without PCB	ME PLC 40 BUS 10/10 KIT BK	2201503

3 Front connection module

	Description	Type	Item no.
	Universal cover, securely snapped in	ME PLC 40 CL GY7035	2201505
	Including 2x 10-pos. FKCN connection technology, can be swiveled ¹⁾	ME PLC 40 CT20 GY7035	2201493
	Including 2x 18-pos. FKCN connection technology, can be swiveled ²⁾	ME PLC 40 CT36 GY7035	2201494
	Including 1x 10-pos. FKCN connection technology, can be swiveled ³⁾	ME PLC 40 CT10 GY7035	2201492
	Including 2x 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

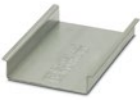
³⁾ Usable for [1754872](#) FKCN 2,5/10-STF-5,08

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

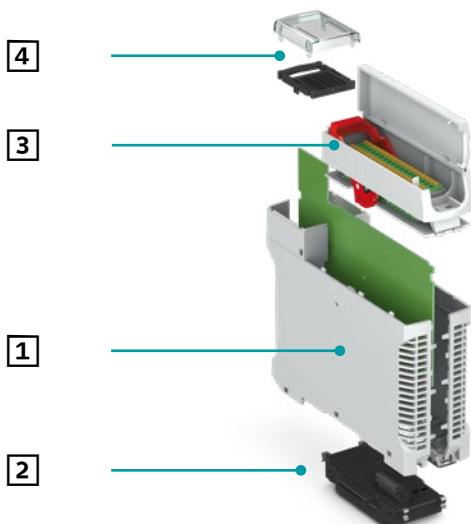
4 Housing termination

	Description	Type	Item no.
	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

	Description	Type	Item no.
	DIN rail, unperforated 105 mm 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 desired product



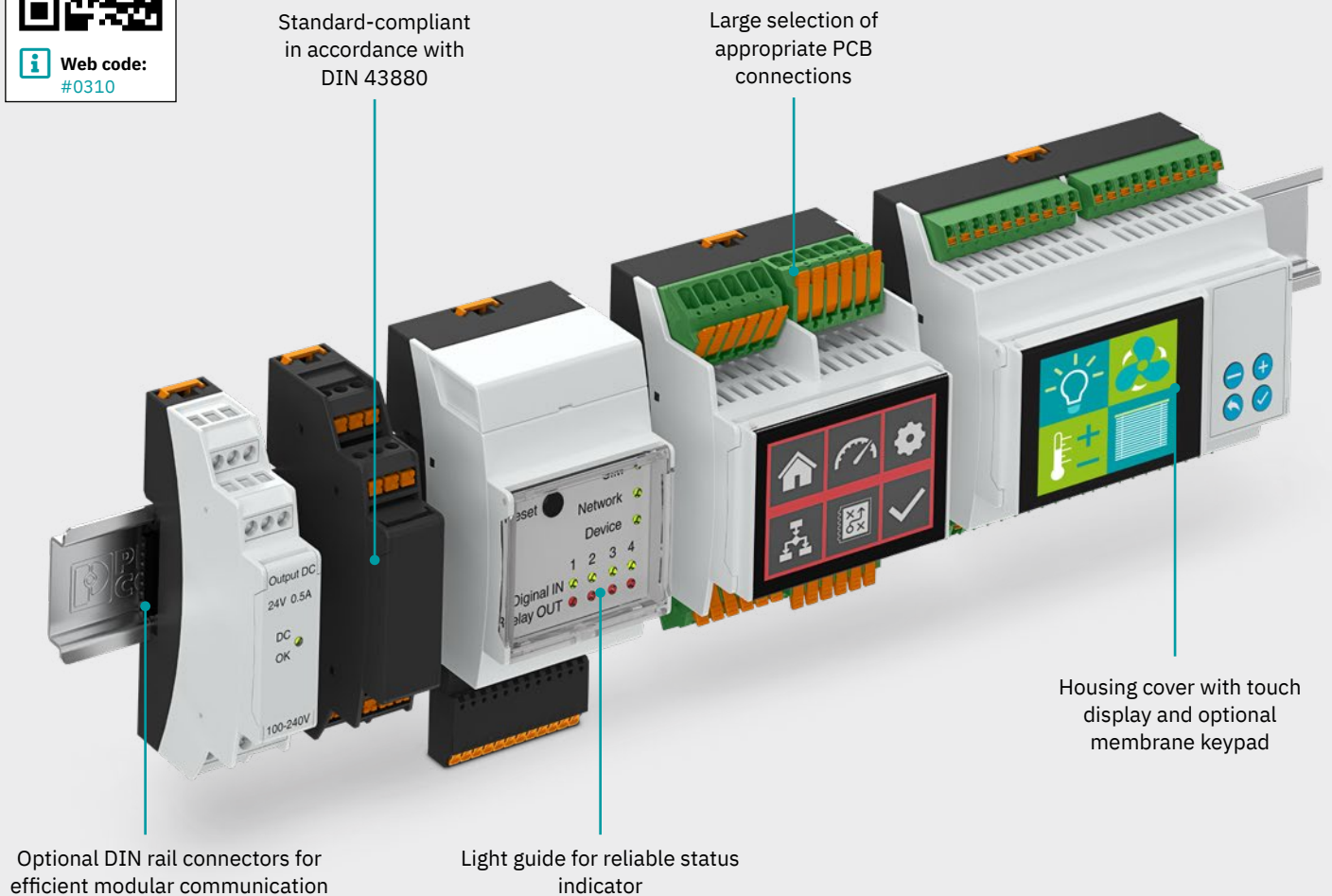
Go directly to the online configurator

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 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 modern design, multi-sided PCB connections, and an efficient DIN rail connector. The BC housings are suitable for direct panel mounting or for use in distribution boards in accordance with DIN 43880.



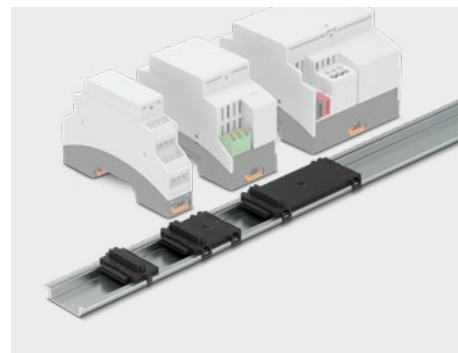
Your advantages



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

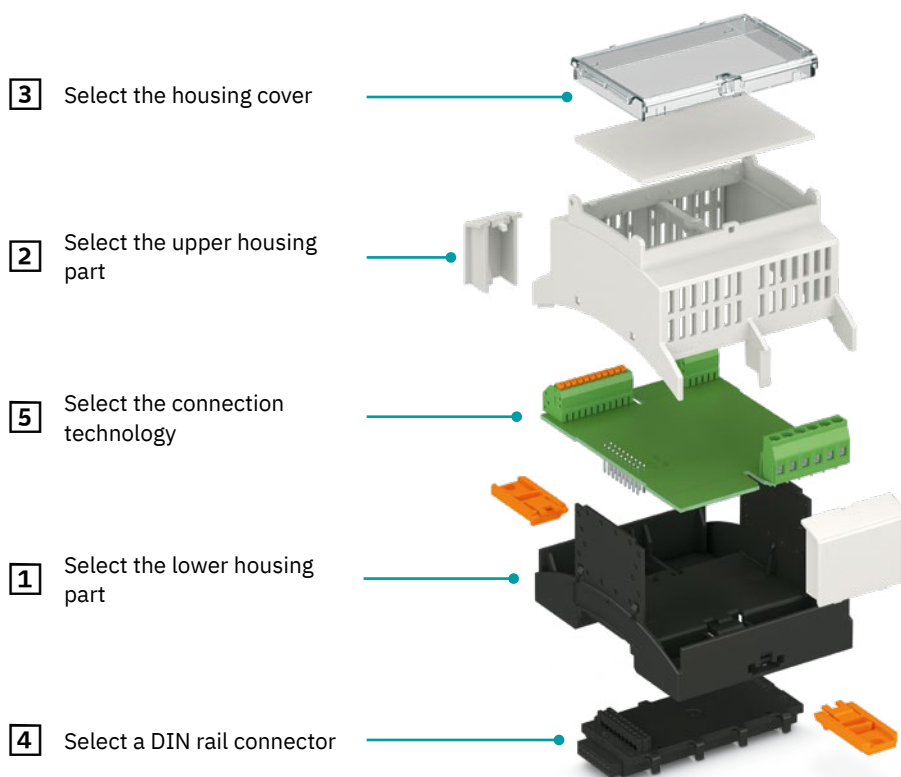


The highest possible degree of customization with mechanical processing, design customization, printing, and personal consultation.



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

Configure your desired product



Go directly to the online configurator

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

 **Web code:** #0512

Housing color options (based on RAL color system):

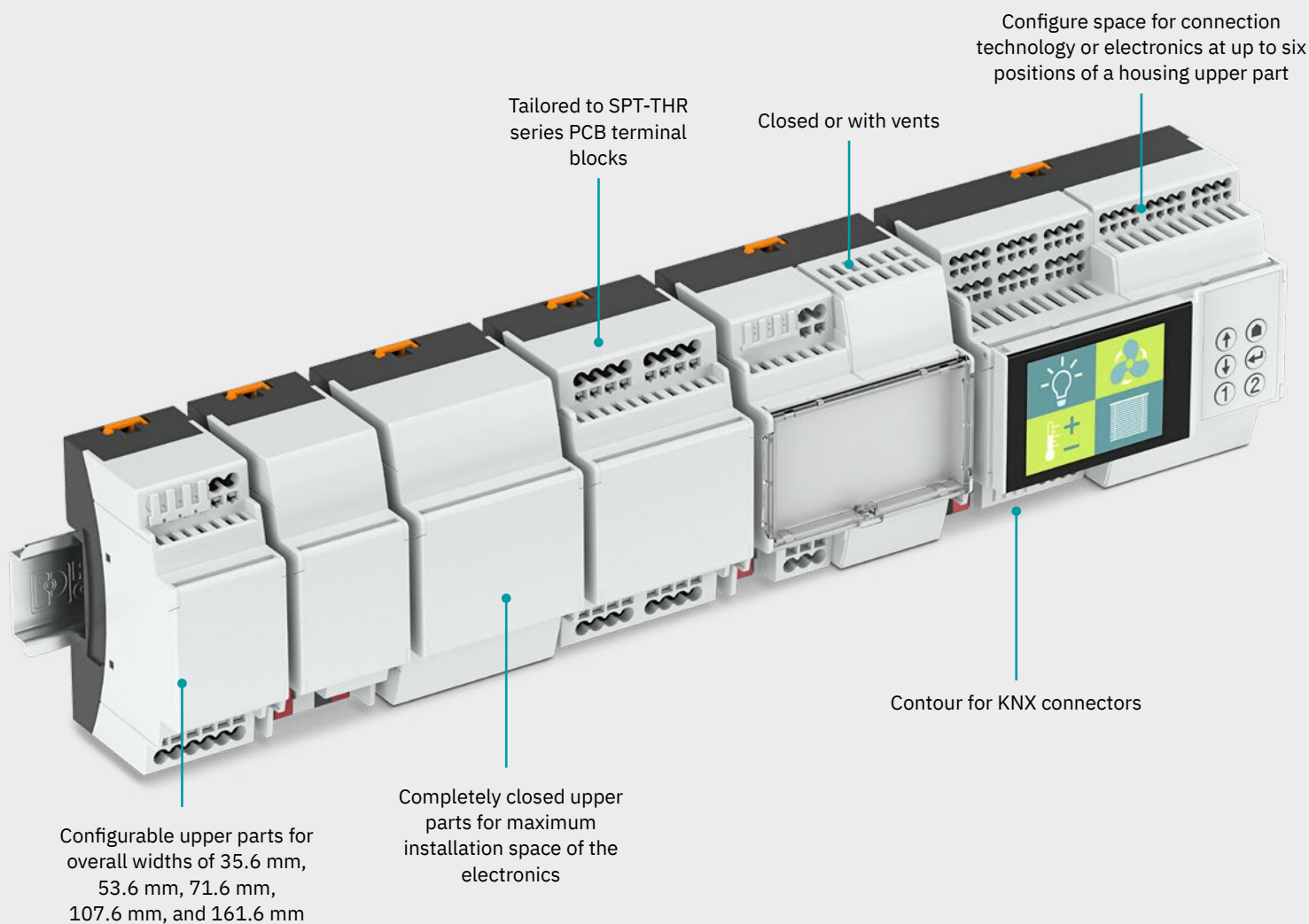
■ 7035 ■ 9005 ■ 5015 ■ 7042 ■ 3001 ■ 1018

Other colors on request.

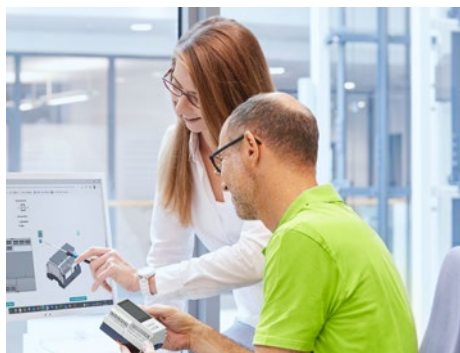
BC modular building installation housings are also available in RPI versions; more information starting on page 82. Test the BC series and get in touch with your sales contact person (sample set: 52005225).

BC modular configurable building installation housings

With configurable electronics housings from the BC modular series, the electronics or connection technology can be freely positioned. Compact device solutions for building automation can be developed without post-processing. In addition, versions with Push-in connection technology can be integrated for maximum space within the housing.



Your advantages



Individual online configuration for various applications in building automation.

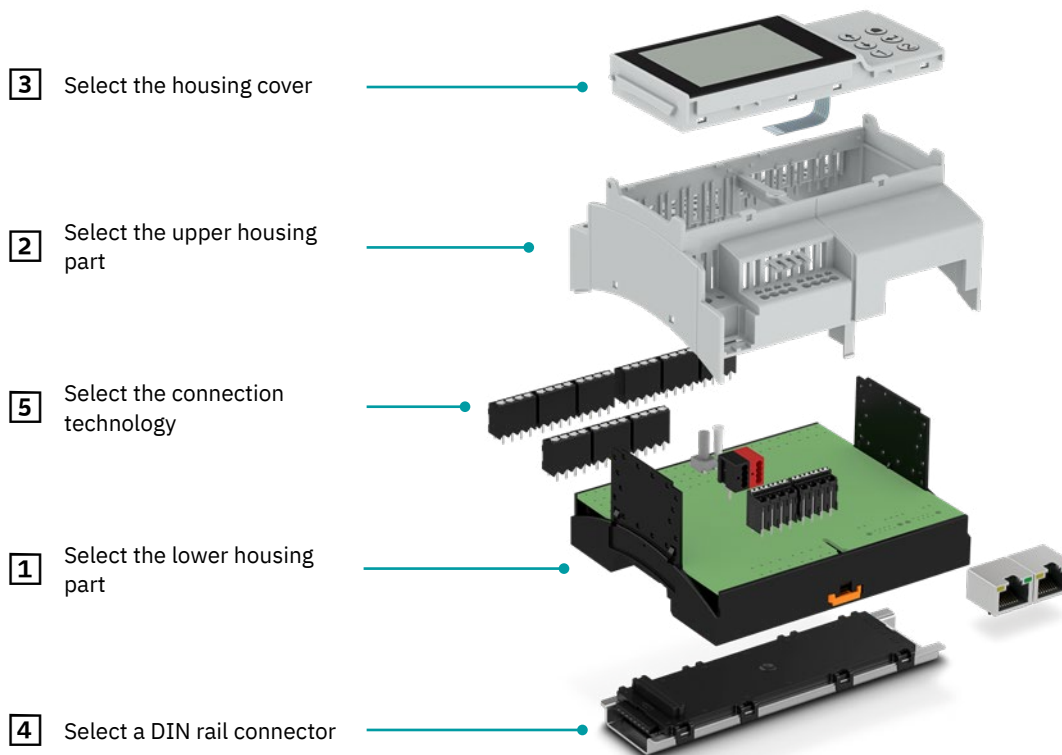


Push-in PCB terminal blocks for convenient front-panel operation and time savings during installation.



Coordinated housing and connection system for faster device development.

Configure your desired product



Go directly to the online configurator

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

 **Web code:** #0512

Housing color options (based on RAL color system):

7035 9005 5015 7042 3001 1018

Other colors on request.

BC modular building installation housings are also available in RPI versions; more information starting on page 82. Test the BC series and get in touch with your sales contact person (sample set: 52005225).

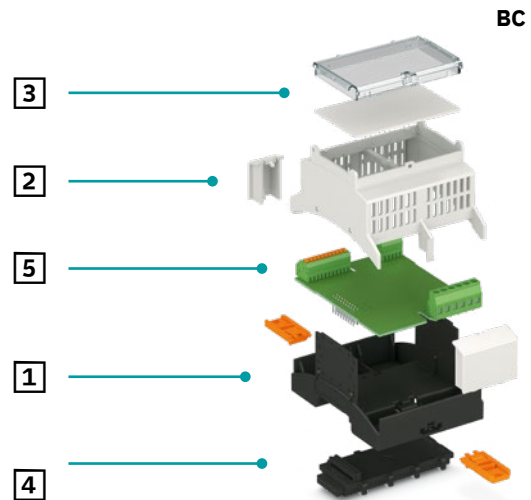
BC series configuration overview

1 Lower housing part				2 Upper housing part			
	Housing width	Color	Item no.		Version	Color	Item no.
	17.8 mm (1 HP)	■ RAL 7035	2201070		FKDSO 3/4-pos.	■ RAL 7035	1533652
		■ RAL 9005	2896241 /1377629¹⁾			■ RAL 9005	On request
	35.6 mm (2 HP)	■ RAL 7035	1227343		MKDSO 3/4-pos.	■ RAL 7035	2279732
		■ RAL 9005	2896254 /1464719¹⁾			■ RAL 9005	1227302
	53.6 mm (3 HP)	■ RAL 7035	1210716		U11	■ RAL 7035	2896034
		■ RAL 9005	2896403 /1006947¹⁾			■ RAL 9005	2200777
	71.6 mm (4 HP)	■ RAL 7035	1227344		U22	■ RAL 7035	2896047
		■ RAL 9005	2896267 /1006950¹⁾			■ RAL 9005	1227303
	107.6 mm (6 HP)	■ RAL 7035	2202951		U11	■ RAL 7035	2896416
		■ RAL 9005	2896270 /1006953¹⁾			■ RAL 9005	2201607
	161.6 mm (9 HP)	■ RAL 7035	1227345		U22	■ RAL 7035	2896429
		■ RAL 9005	2278500 /2200072¹⁾			■ RAL 9005	2202193
	215.6 mm (12 HP)	■ RAL 9005	1457588		U11	■ RAL 7035	2896050
						■ RAL 9005	2202539
					U22	■ RAL 7035	2896063
						■ RAL 9005	2202988
					U11	■ RAL 7035	2896076
						■ RAL 9005	2200721
					U22	■ RAL 7035	2896089
						■ RAL 9005	2203763
					U11	■ RAL 7035	2278513
						■ RAL 9005	2202833
					U22	■ RAL 7035	2278526
						■ RAL 9005	2201665
					U22	■ RAL 7035	1457587

3 Housing cover			
	Version	Color	Item no.
	Latching cover, non-detachable	 RAL 7035	2896144
		 RAL 9005	1210710
	Swivel cover, transparent	 RAL 7035	2896102
		 RAL 9005	1227299
	Latching cover, non-detachable	 RAL 7035	2896157
		 RAL 9005	2200776
	Swivel cover, transparent	 RAL 7035	2896115
		 RAL 9005	1227301
	Latching cover, non-detachable	 RAL 7035	2896432
		 RAL 9005	2201608
	Swivel cover, transparent	 RAL 7035	2896445
		 RAL 9005	1210712
	Latching cover, non-detachable	 RAL 7035	2896160
		 RAL 9005	1204540
	Swivel cover, transparent	 RAL 7035	2896128
		 RAL 9005	1210714
	Latching cover, non-detachable	 RAL 7035	2896173
		 RAL 9005	2200722
	Swivel cover, transparent	 RAL 7035	2896131
		 RAL 9005	1210715
	Latching cover, non-detachable	 RAL 7035	2278539
		 RAL 9005	2201664
	Swivel cover, transparent	 RAL 7035	2278542
		 RAL 9005	1059059
	Latching cover, non-detachable	 RAL 7035	1457589

3 Filler plugs			
	Version	Color	Item no.
	BC 17,8 FKDSO	 RAL 7035	1534556
		 RAL 9005	On request
	BC 17,8 MKDSO	 RAL 7035	2854115
		 RAL 9005	2853019
	Filler plug 17,6 U11	 RAL 7035	2896186
		 RAL 9005	1227309
	Filler plug 17,6 U22	 RAL 7035	2896199
		 RAL 9005	1227308
	Filler plug 35,6 U11	 RAL 7035	2896209
		 RAL 9005	1227307
	Filler plug 35,6 U22	 RAL 7035	2896212
		 RAL 9005	1227306
	Filler plug 53,6 U11	 RAL 7035	2896225
		 RAL 9005	1227305
	Filler plug 53,6 U22	 RAL 7035	2896238
		 RAL 9005	1227304

Configure your desired product



Go directly to the online configurator

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

 Web code: #0512

¹⁾ Item with bulk packing, packing unit 80 or higher.

BC modular series configuration overview

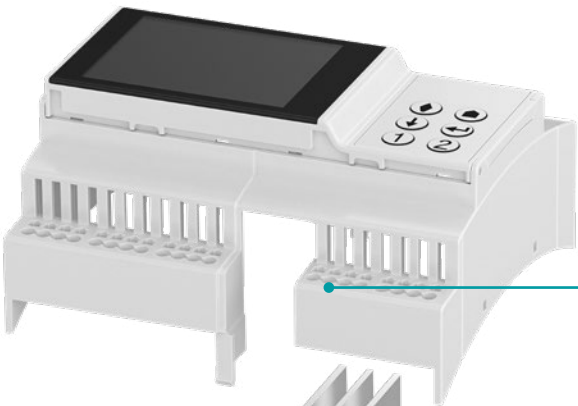
Heatsink										NEW
Heatsink dimensions ¹⁾										
	Height [mm]	Length [mm]	Width [mm]	Type	Item no.	Spacing base [mm]	Base thickness ²⁾ [mm]	Recommended housing use	Item no. upp. hous. part	
	28.7	89.7	15.5	BC 17,6 HS 90 AL	1754308	4	4.8	BC 35,6 - BC 215,6	1754310	
	28.7	89.7	28.9	BC 35,6 HS 90 AL	1754330	4	4.8	BC 35,6 - BC 215,6	1754329	
	28.7	43.85	28.9	BC 35,6 HS 45 AL	1754304	0	4.8	BC 35,6 - BC 215,6	1754307	
	28.7	89.7	46.9	BC 53,6 HS 90 AL	1754315	4	4.8	BC 53,6 BC 107,6 - BC 215,6	1756994	
	28.7	43.85	46.9	BC 53,6 HS 45 AL	1754311	12	4.8	BC 53,6 BC 107,6 - BC 215,6	1754305	

¹⁾ Relationship between heatsink dimensions and housing dimensions: height-width, length-height, width-depth.
²⁾ The base can be custom-milled for different component heights. A minimum base thickness of 2 mm is recommended.

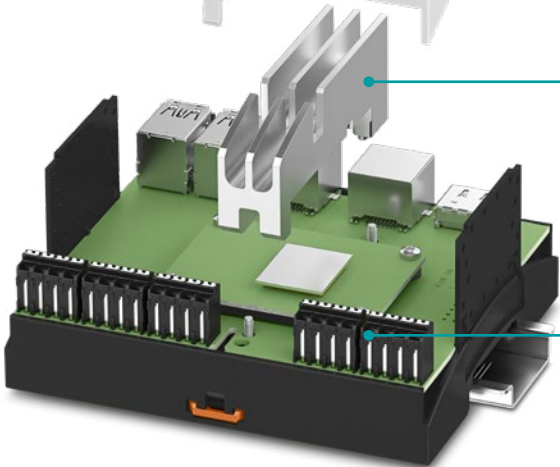
Your comprehensive solution consisting of housing system and heatsink

Use the BC 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.



Coordinated housing and heatsink system



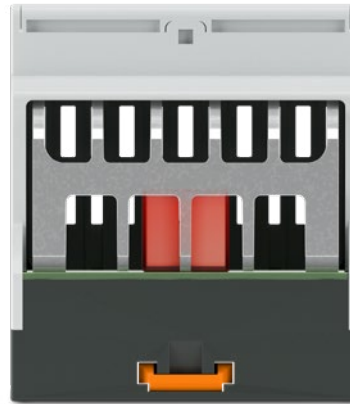
Tailored processing for the ideal connection of hot spots

Wide range of connection technologies

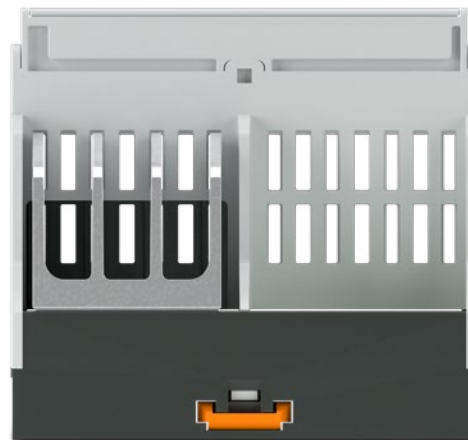
Positioned as required

The heatsinks in the BC housing family are designed to allow you to connect electronic components with an installed height of up to 14 mm. The distance between the PCB and the base of the heatsink can vary between 0 and 12 mm depending on the space requirements.

Base height 14 mm



Base height 0 mm



Optimal heatsink design

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.

Base height 6 mm



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	 RAL 7035	1335811	1335858¹⁾	1335860	1335863	1335864	1337341 1337344
	 RAL 9005	1335856	1335861	1684628	1335862		

¹⁾ Item with packaging size 1: [1335865](#)

3 Round light guide, vertical installation

Series	Item no.	Type	Size of indicators	Number of indicators	Pitch	Recommended housing use
	2202311	HS LC-V-D3/ R2XC1-5,08	3 mm	2 (2 x 1)	5.08 mm	BC 35,6 ... BC 161,6
	2202312	HS LC-V-D3/ R3XC1-5,08		3 (3 x 1)		

3 Round light guide, double-row, horizontal installation 3 mm

Series	Item no.	Type	Size of indicators	Number of indicators	Pitch	Recommended housing use
	2202315	HS LC-H-D3/ R2xC1-5,08	3 mm	2 (2 x 1)	5.08 mm	BC 17,8
	1474395	HS LC-H-D3PL/ R2XC2-5,08		4 (2 x 2)		
	1474396	HS LC-H-D3PL/ R2XC3-5,08		6 (2 x 3)		
	1474397	HS LC-H-D3PL/ R2XC4-5,08		8 (2 x 4)		
	1474399	HS LC-H-D3PL/ R2XC5-5,08		10 (2 x 5)		

On request, we can create the appropriate cutouts for the light guides at the desired position.

Go directly to the online configurator

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

 Web code: [#0512](#)

4 Bus connector for DIN rail mounting

Housing module	Housing width	8-position			16-position			Slots for the PCB
			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 connectors for DIN rail mounting

	8-position		16-position	
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 modular series configuration overview

2 Upper housing part, configurable			
	Housing width	Type	Item no.
	35.6 mm (2 HP)	BC 35,6 OT 2P2P KMGY	1538932
		BC 35,6 OT 0CKK KMGY	1585019
		BC 35,6 OT 0C0C KMGY	1538938
	53.6 mm (3 HP)	BC 53,6 OT 2P2K KMGY	1538927
		BC 53,6 OT 2P2P KMGY	1538929
		BC 53,6 OT 1P1P KMGY	1538930
	71.6 mm (4 HP)	BC 71,6 OT 2P2K00C KMGY	1340864
	107.6 mm (6 HP)	BC 107,6 OT 1D1K1P0R KMGY	1340863
	161.6 mm (9 HP)	BC 161,6 OT 2P2K1P0C1D1K KMGY	1335979

5 Select the connection technology		
	Type	Item no.
	SPT-THR 2,5/ 3-V-5,0	1135347
	BC F SPT 2,5/4 KMGY	1340861
	SPT-THR 1,5/ 4-V-3,81	1822448
	BC F SPT 1,5/4 KMGY	1340862
	PST 1,0/2-5,75 P20 THR R32 1)	1353228
	HS-LC-V-T-D2,1X3,7S-10,6 2)	1346167
	PTS 0,5/ 2-PH-5,75 BKRD KNX	1574300

1) 2-pos. pin strip for KNX connectors (item no. 1574299) 2) Light guide for KNX contour

Configure your desired product

Overall width of 71.6 (4 HP)

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

BC 71,6 OT **0** **1** **2** **1**

Designation and overall width

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

Overall width of 107.6 (6 HP)

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

Overall width of 161.6 (9 HP)

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

Go directly to the online configurator

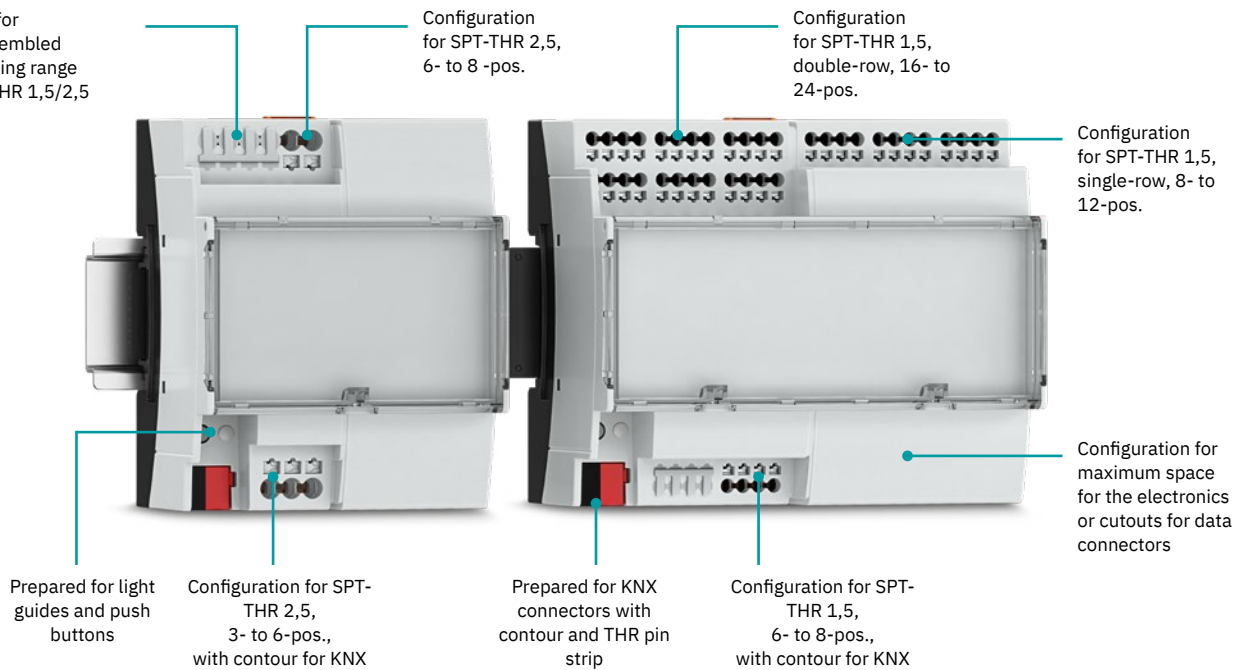
Simply enter the web code into the search field on our website.

Web code: #0512

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

BC modular with SPT-THR

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



BC series configuration overview: PCB terminal blocks and PCB connectors

Conductor cross-sections up to 1.5 mm ² (16 AWG), screw connection with tension sleeve							
Web code: #0709	Product family	Notes	Number of positions	Pitch [mm]	Current ¹⁾ [A]	Voltage ^{1) 2)} [V]	Connection direction
	MKDS 1	Suitable for U11/U22	2 ... 12	3.5/3.81	13.5 IEC 10 UL (B, D)	200 IEC 300 UL (B, D)	0°
	MKDS 1 PROFINET	Suitable for U11/U22	4	3.5	13.5 IEC 10 UL (B, D)	200 IEC 300 UL (B, D)	0°
	MKDSO 1,5	Suitable for BC 17,8 OTU MKDSO left and right version	4-position 2278429 2278432	3.5	8	160	0°
 NEW	FKDSO 1.5	Suitable for BC 17,8 OTU FKDSO left and right version	4-position 1534550 1534553	3.5	8	160	0°

Conductor cross-sections up to 1.5 mm ² (16 AWG), Push-in spring connection							
Web code: #0710	Product family	Notes	Number of positions	Pitch [mm]	Current ¹⁾ [A]	Voltage ^{1) 2)} [V]	Connection direction
	PTDA 1,5/	Suitable for U22, TWIN connection	2 ... 12	3.5	17.5 IEC 12 UL (B) 10 UL (D)	240 IEC 300 UL (B) 300 UL (D)	45°
	SPTA 1/	Suitable for U11/U22	2 ... 10	3.5	9 IEC 10 UL (B) 10 UL (D)	200 IEC 150 UL (B) 300 UL (D)	65°
	SPT-THR 1,5/...-V	Suitable for U11/U22, THR soldering, various pin lengths available	2 ... 12	3.5/3.81	13.5 IEC 10 UL (B, D)	160 IEC 300 UL (B, D)	90°
	SPTA-THR 1,5	Suitable for U22, THR soldering	2 ... 12	3.81	13.5 IEC 10 UL (B, D)	160 IEC 300 UL (B, D)	45°
	SPTA 1,5/	Suitable for U22	2 ... 12	3.81	9 IEC 10 UL (B)	160 IEC 300 UL (B)	45°

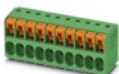
¹⁾ IEC rated insulation voltage with overvoltage category III/pollution degree 2

²⁾ Nominal current and nominal voltage according to UL Use Group B or D

Conductor cross-sections up to 2.5 mm² (12 AWG), screw connection with tension sleeve

 Web code: #0713	Product family	Notes	Number of positions	Pitch [mm]	Current ¹⁾ [A]	Voltage ^{1) 2)} [V]	Connection direction
	TDPT 2,5/...-SC	Suitable for U22, PCB terminal block of the same shape also available with Push-in spring connection	2 ... 9	5.08	24 IEC 20 UL (B) 10 UL (D)	400 IEC 300 UL (B) 300 UL (D)	0°
	MKDS 3	Suitable for U22, also available with internal bridging and test pick-off	2-/3-pos. alignable	5.0/5.08	24 IEC 15 UL (B) 10 UL (D)	400 IEC 300 UL (B) 300 UL (D)	0°
	MKDSO 2,5	Suitable for BC 17,8 OTU MKDSO left and right version	3-position 2854102 2854092	5	24	400	0°
 NEW	FKDSO 2,5	Suitable for BC 17,8 OTU FKDSO left and right version	3-position 2200319 2200320	5	22	250	0°

Conductor cross-sections up to 2.5 mm² (12 AWG), Push-in spring connection

 Web code: #0715	Product family	Notes	Number of positions	Pitch [mm]	Current ¹⁾ [A]	Voltage ^{1) 2)} [V]	Connection direction
	TDPT 2,5/...-SP	Suitable for U22, Contour-matched PCB terminal block also available with screw connection	2 ... 12	5.08	24 IEC 20 UL (B) 10 UL (D)	400 IEC 300 UL (B) 300 UL (D)	0°
	PTDA 2,5/	Suitable for U22, TWIN connection	2 ... 9	5.0	24 IEC 20 UL (B) 10 UL (D)	400 IEC 300 UL (B) 300 UL (D)	45°
	SPTA-THR 2,5	Suitable for U22, THR soldering	2 ... 9	5.0	24 IEC 20 UL (B, F) ³⁾ 10 UL (D) ³⁾	400 IEC 300 UL (B, D) ³⁾ 500 V (F) ³⁾	45°
	SPT-THR 2,5/...-V	Suitable for U22, THR soldering	2 ... 9	5.0	24 IEC 20 UL (B, F) 10 UL (D)	400 IEC 300 UL (B, D) 500 V (F)	90°

Conductor cross-sections up to 2.5 mm² (12 AWG), lever Push-in connection

 Web code: #2660	Product family	Notes	Number of positions	Pitch [mm]	Current ¹⁾ [A]	Voltage ^{1) 2)} [V]	Connection direction
	LPT 2,5	Suitable for U22	2 ... 9	5.0	24 IEC 20 UL (B, F) 10 UL (D, G)	400 IEC 300 UL (B, D, G) 320 V (F)	0°
	LPTA 2,5	Suitable for U22	2 ... 9	5.0	24 IEC 20 UL (B, F) 10 UL (D, G)	400 IEC 300 UL (B, D, G) 320 V (F)	30°

BC series configuration overview: PCB terminal blocks and PCB connectors

Conductor cross-sections up to 0.8 mm ² (18 AWG), connectors: Push-in spring connection, female							
Web code: #0734	Product family	Notes	Number of positions	Pitch [mm]	Current ¹⁾ [A]	Voltage ^{1) 2)} [V]	Connection direction
	FMC 0,5/...-ST	Gold-plated contact system	2 ... 16	2.54	6 IEC 6 UL (B)	160 IEC 150 UL (B)	0°
Conductor cross-sections up to 0.8 mm ² (18 AWG), headers: THR soldering, male							
Web code: #0735	Product family	Notes	Number of positions	Pitch [mm]	Current ¹⁾ [A]	Voltage ^{1) 2)} [V]	Connection direction
	MC 0,5/...-G-THR	Suitable for U11/U22, lateral THR armature, gold-plated contact system	2 ... 16	2.54	6 IEC 6 UL (B)	160 IEC 150 UL (B)	0°
	MCV 0,5/...-G-THR	Suitable for U11/U22, lateral THR armature, gold-plated contact system	2 ... 16	2.54	6 IEC 6 UL (B)	160 IEC 150 UL (B)	90°
Conductor cross-sections up to 0.8 mm ² (18 AWG), double-row connectors: Push-in spring connection, female							
Web code: #1171	Product family	Notes	Number of positions	Pitch [mm]	Current ¹⁾ [A]	Voltage ^{1) 2)} [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)	160 IEC 150 UL (B)	0°
Conductor cross-sections up to 0.8 mm ² (18 AWG), double-row headers: THR soldering, male							
Web code: #1172	Product family	Notes	Number of positions	Pitch [mm]	Current ¹⁾ [A]	Voltage ^{1) 2)} [V]	Connection direction
	DMC 0,5/...-G1-THR	Suitable for U11/U22, double-row, gold-plated contact system, lateral THR armature, integrated THR armature	2 ... 3 4 ... 16	2.54	6 IEC 6 UL (B)	160 IEC 150 UL (B)	0°
	DMCV 0,5/...-G1-THR	Suitable for U11/U22, double-row, gold-plated contact system, lateral THR armature, integrated THR armature	2 ... 3 4 ... 16	2.54	6 IEC 6 UL (B)	160 IEC 150 UL (B)	90°

Conductor cross-sections up to 1.5 mm ² (16 AWG), connectors: screw connection with wire guard							
Web code: #0772	Product family	Notes	Number of positions	Pitch [mm]	Current ¹⁾ [A]	Voltage ^{1) 2)} [V]	Connection direction
	PT 1,5/...-PH	Can be plugged onto pin strips	2 ... 12	3.5	8 IEC 10 UL (B, D)	200 IEC 300 UL (B, D)	0°
	PT 1,5/...-PVH	Can be plugged onto pin strips	2 ... 12	3.5	8 IEC 10 UL (B, D)	200 IEC 300 UL (B, D)	0°/90°

Conductor cross-sections up to 1.5 mm² (16 AWG), connectors: screw connection with tension sleeve

 Web code: #0773	Product family	Notes	Number of positions	Pitch [mm]	Current ¹⁾ [A]	Voltage ^{1) 2)} [V]	Connection direction
	PT 1,5/...-PH	Can be plugged onto pin strips	2 ... 9	5.0	10 IEC 10 UL (B, D)	400 IEC 300 UL (B, D)	0°

Conductor cross-sections up to 1.5 mm² (16 AWG), connectors: Push-in spring connection

 Web code: #0774	Product family	Notes	Number of positions	Pitch [mm]	Current ¹⁾ [A]	Voltage ^{1) 2)} [V]	Connection direction
	PTDA 1,5/...-PH	TWIN connection, can be plugged onto pin strips	2 ... 12	3.5	8 IEC 10 UL (B)	240 IEC 150 UL (B)	45°
	PTS 1,5/...-PH	Can be plugged onto pin strips	2 ... 9	5.0	10 IEC 7 UL (B, D)	400 IEC 300 UL (B, D)	0° / 180°

Conductor cross-sections up to 1.5 mm² (16 AWG), pin strips: THR and wave soldering

 Web code: #0752	Product family	Notes	Number of positions	Pitch [mm]	Current ¹⁾ [A]	Voltage ^{1) 2)} [V]	Connection direction
	PST 1,0/...-V	Suitable for U11/U22	2 ... 12	3.5	8 IEC 10 UL (B)	250 IEC 300 UL (B)	90°
	PST 1,3/...-V	Suitable for U11/U22	2 ... 9	5.0	12 IEC 16 UL (B) 10 UL (D)	320 IEC 300 UL (B) 300 UL (D)	90°

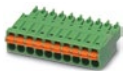
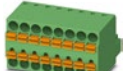
Conductor cross-sections up to 1.5 mm² (16 AWG), double-row connectors: Push-in spring connection, SKEDD direct-connection technology

 Web code: #1206	Product family	Notes	Number of positions	Pitch [mm]	Current ¹⁾ [A]	Voltage ^{1) 2)} [V]	Connection direction
	SDDC 1,5/...-PV-3,5	Suitable for U11/U22, with body-bound rivets for locking on the PCB	2 ... 12	3.5	8 IEC 8 UL (B, D)	160 IEC 300 UL (B, D)	90°

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

²⁾ Nominal current and nominal voltage according to UL Use Group B or D

BC series configuration overview: PCB terminal blocks and PCB connectors

Conductor cross-sections up to 1.5 mm ² (16 AWG), connectors: Push-in spring connection, female							
Web code: #0756	Product family	Notes	Number of positions	Pitch [mm]	Current ¹⁾ [A]	Voltage ^{1) 2)} [V]	Connection direction
	FK-MCP 1,5/...-ST FK-MCP 1,5/...-STF FK-MCP 1,5/...-ST-LR	Without flange With screw flange With lock-and-release locking system	2 ... 12	3.5/3.81	8 IEC 8 UL (B, D)	160 IEC 300 UL (B, D)	0°
	FMC 1,5/...-ST FMC 1,5/...-STF FMC 1,5/...-ST-RF	Without flange With screw flange With latching flange	2 ... 12	3.5/3.81 3.5/3.81 3.5	8 IEC 8 UL (B)	160 IEC 150 UL (B)	0°
	FMCD 1,5/...-ST	Without flange	2 ... 16	3.5	8 IEC 8 UL (B)	160 IEC 150 UL (B)	0°
	TFMC 1,5/...-ST TFMC 1,5/...-STF	TWIN design Without flange With screw flange	2 ... 10	3.5	8 IEC 8 UL (B)	160 IEC 300 UL (B)	0°
Conductor cross-sections up to 1.5 mm ² (16 AWG), connectors: lever Push-in connection, female							
Web code: #2663	Product family	Notes	Number of positions	Pitch [mm]	Current ¹⁾ [A]	Voltage ^{1) 2)} [V]	Connection direction
	LPC 1,5/...-ST LPC 1,5/...-STF LPC 1,5/...-ST-LR	Without flange With screw flange With LR lever	2 ... 12	3.81	8 IEC 8 UL (B, C)	160 V IEC 150 V UL (B, C)	0°
Conductor cross-sections up to 1.5 mm ² (16 AWG), connectors: Push-in spring connection, female							
Web code: #3261	Product family	Notes	Number of positions	Pitch [mm]	Current ^{1) 3)} [A]	Voltage ^{1) 2) 3)} [V]	Connection direction
	XPC 1,5/...-ST	Without flange	2-12	3.81	8 IEC 8 UL (B, D)	160 IEC 150 UL (B, D)	0°
Conductor cross-sections up to 1.5 mm ² (16 AWG), headers: THR soldering, male							
Web code: #0760	Product family	Notes	Number of positions	Pitch [mm]	Current ¹⁾ [A]	Voltage ^{1) 2)} [V]	Connection direction
	MC 1,5/...-G-THR MC 1,5/...-GF-THR	Suitable for U11/U22, without flange With threaded flange	2 ... 12	3.5/3.81	8 IEC 8 UL (B, D)	160 IEC 300 UL (B, D)	0°
	MCDN 1,5/...-G1-THR MCDN 1,5/...-G1-RN-THR	Suitable for U22, without flange With snap-in latch	2 ... 12	3.5/3.81 3.5	8 IEC 8 UL (B)	160 IEC 150 UL (B)	0°
Conductor cross-sections up to 1.5 mm ² (16 AWG), headers: wave soldering, male							
Web code: #0762	Product family	Notes	Number of positions	Pitch [mm]	Current ¹⁾ [A]	Voltage ^{1) 2)} [V]	Connection direction
	MC 1,5/...-G MC 1,5/...-GF MC 1,5/...-G-RN MC 1,5/...-GF-LR	Suitable for U11/U22, without flange With threaded flange With snap-in latch With lock-and-release locking system	2 ... 12	3.5/3.81 3.5/3.81 3.5 3.5/3.81	8 IEC 8 UL (B, D)	160 IEC 300 UL (B, D)	0°
	SMC 1,5/...-G SMC 1,5/...-GF	Suitable for U22, without flange With threaded flange	2 ... 12	3.81	8 IEC 8 UL (B, D)	160 IEC 300 UL (B, D)	45°

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

²⁾ Nominal current and nominal voltage in accordance with UL Use Group B or D

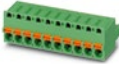
Conductor cross-sections up to 2.5 mm² (12 AWG), double-row connectors: crimp connection, SKEDD direct-connection technology

 Web code: #1615	Product family	Notes	Number of positions	Pitch [mm]	Current ¹⁾ [A]	Voltage ^{1) 2)} [V]	Connection direction
	CDDC 2,5/-PV-5,0	With body-bound rivets for locking on the PCB	2 ... 9	5.0	12 IEC 12 UL (B, D)	320 IEC 300 UL (B, D)	90°

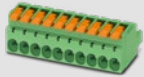
Conductor cross-sections up to 2.5 mm² (12 AWG), connectors: screw connection with tension sleeve, female

 Web code: #0776	Product family	Notes	Number of positions	Pitch [mm]	Current ¹⁾ [A]	Voltage ^{1) 2)} [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 locking system	2 ... 9	5.0/5.08	12 IEC 15 UL (B) 10 UL (D)	320 IEC 300 UL (B) 300 UL (D)	0°

Conductor cross-sections up to 2.5 mm² (12 AWG), connectors: Push-in spring connection, female

 Web code: #0779	Product family	Notes	Number of positions	Pitch [mm]	Current ¹⁾ [A]	Voltage ^{1) 2)} [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 locking system	2 ... 9	5.0/5.08 5.0/5.08 5.0/5.08 5.08	12 IEC 10 UL (B, D)	320 IEC 300 UL (B, D)	0°

Conductor cross-sections up to 2.5 mm² (12 AWG), connectors: lever Push-in connection, female

 Web code: #2664	Product family	Notes	Number of positions	Pitch [mm]	Current ¹⁾ [A]	Voltage ^{1) 2)} [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 locking system	2 ... 9	5.08	16 IEC 16 UL (B, C)	320 IEC 300 UL (B, C)	0°

Conductor cross-sections up to 2.5 mm² (12 AWG), headers: THR soldering, male

 Web code: #0789	Product family	Notes	Number of positions	Pitch [mm]	Current ¹⁾ [A]	Voltage ^{1) 2)} [V]	Connection direction
	CCA 2,5/-G CC 2,5/-GF CCA 2,5/-G-RN CC 2,5/-GF-LR	Suitable for U22, without flange With threaded flange With snap-in latch With lock-and-release locking system	2 ... 9	5.0/5.08 5.08 5.08 5.0/5.08	12 IEC 16 UL (B) 10 UL (D)	320 IEC 300 UL (B) 300 UL (D)	0°

Conductor cross-sections up to 2.5 mm² (12 AWG), headers: wave soldering, male

 Web code: #0790	Product family	Notes	Number of positions	Pitch [mm]	Current ¹⁾ [A]	Voltage ^{1) 2)} [V]	Connection direction
	MSTB 2,5/-G	Suitable for U11/U22, without side panel	2 ... 9	5.0/5.08	12 IEC 15 UL (B) 10 UL (D)	320 IEC 300 UL (B) 300 UL (D)	0°
	MSTBV 2,5/-G	Suitable for U11/U22, without side panel	2 ... 9	5.0/5.08	12 IEC 12 UL (B) 10 UL (D)	320 IEC 300 UL (B) 300 UL (D)	90°
	MSTBA 2,5/-G MSTB 2,5/-GF MSTBA 2,5/-G-RN MSTBA 2,5/-G-LR	Suitable for U22, without flange With threaded flange With snap-in latch With lock-and-release locking system	2 ... 9	5.0/5.08 5.0/5.08 5.0/5.08 5.08	12 IEC 15 UL (B) 10 UL (D)	320 IEC 300 UL (B) 300 UL (D)	0°

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

²⁾ Nominal current and nominal voltage in accordance with UL Use Group B or D

BC series configuration overview: Data connectors

FR 1,27 board-to-board connectors									
 Web code: #1520									
	Vertical female connector strip				Vertical male connector strip				
	Installed height: 6.25 mm		Installed height: 9.05 mm		Base height 1.75 mm		Base height 3.25 mm		
	Number of positions	Type	Item no.	Type	Item no.	Type	Item no.	Type	Item no.
	6	FR 1,27/ 6-FV 6,25	1374026	FR 1,27/ 6-FV 9,05	1374872	FR 1,27/ 6-MV 1,75	1373826	FR 1,27/ 6-MV 3,25	1337137
16	FR 1,27/ 16-FV 6,25	1374028	FR 1,27/ 16-FV 9,05	1374874	FR 1,27/ 16-MV 1,75	1373828	FR 1,27/ 16-MV 3,25	1337139	
32	FR 1,27/ 32-FV 6,25	1374031	FR 1,27/ 32-FV 9,05	1374879	FR 1,27/ 32-MV 1,75	1373886	FR 1,27/ 32-MV 3,25	1337147	
40	FR 1,27/ 40-FV 6,25	1374032	FR 1,27/ 40-FV 9,05	1374880	FR 1,27/ 40-MV 1,75	1373887	FR 1,27/ 40-MV 3,25	1337142	

RJ45 single-port PCB jacks								
Web code: #2341								
	SMD			Wave			Wave / THR	
	Orientation	180° vertical	90° horizontal		180° vertical	90° horizontal		180° vertical 90° horizontal
	Locking clip		Top	Bottom		Top	Bottom	Top
	Without LED	1149611	1149882	1149874	1149872	1149870	1149868	
	With LED		1149873		1149871	1149867	1149866	
	Without LED, short solder contacts							1337238 1337240
	With LED, short solder contacts							1337239 1337243

Coaxial PCB connectors				
Web code: #2890				
	Wave / THR		Wave	
	SMA		SMA	
	90°		90° bulkhead	
	1340151		1340153	
				
	Wave / THR		Wave	
	R-SMA		R-SMA	
	90°		90° bulkhead	
	1340150		1340152	

FP 0,8 board-to-board connectors (shielded)

 Web code:
#2050



Design	Vertical male connector strip				Vertical female connector strip			
Stack height	Base height 1.15 mm		Installed height: 2.65 mm		Installed height: 4.85 mm		Installed height: 7.85 mm	
Number of 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

USB device connectors

 Web code: #2888



Version	USB 2.0				USB 3.2 Gen. 1				USB 2.0	USB 3.2 Gen. 2	
Type	USB type A								USB type C		
Orientation	90° vertical	90° horizontal	180° vertical	90° horizontal	90° horizontal	180° vertical	90° vertical	180° vertical	90° horizontal	180° vertical	90° horizontal
Soldering process	Wave			SMD	Wave			THR	SMD		SMD/THR
Item no.	1332630	1332631	1332632	1332634	1332637	1332638	1332636	1430989	1332645	1332646	1332643

SPE PCB and device connectors

 Web code: #2671

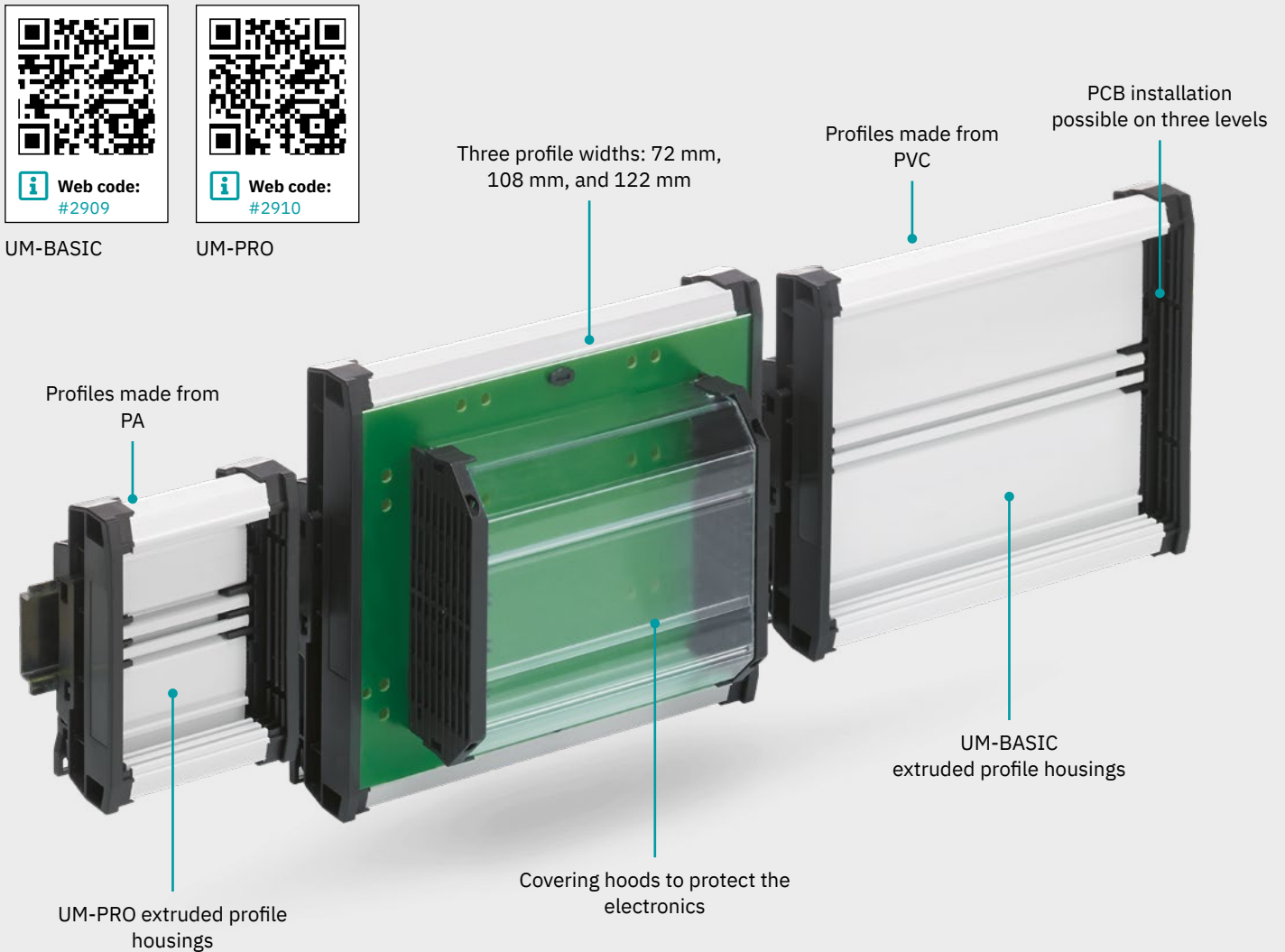


Description	SPE IP20 PCB connector		SPE M8 device connector		
Soldering process	Wave / THR		SMD	Wave / THR	
Contact connection type	Pin contact				
Orientation	180° vertical	90° horizontal	180° vertical		90° horizontal
Without LED	1163798	1163797	1215777	1163793	1163795
With LED		1215778			

UM extruded profile housings

For custom PCB sizes

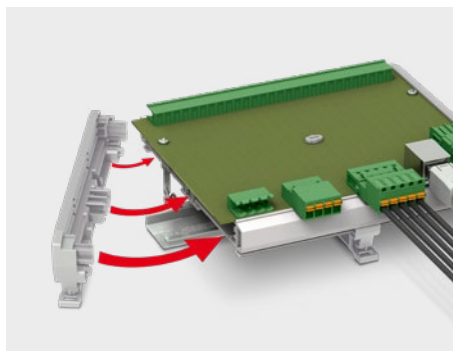
Extruded profile housings of the UM-BASIC and UM-PRO series allow installation dimensions to be customized and make mounting incredibly simple. The open design principle is ideally suited for flexible and large-scale device concepts.



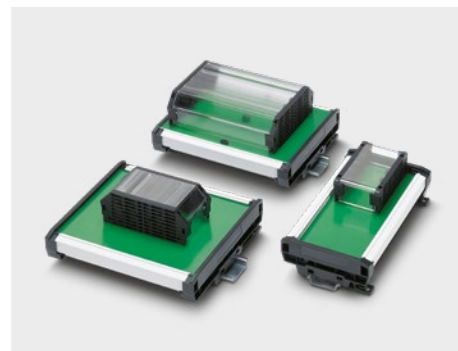
Your advantages



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



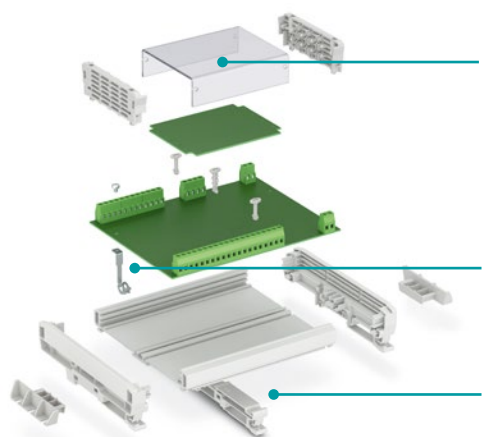
Easy device mounting with the snap-mount principle (no tools required to snap on the sides).



High degree of flexibility with freely positionable covering hoods.

Configure your desired product

UM-BASIC



2 Select the profile cover

3 Search for accessories

1 Select the basic profile

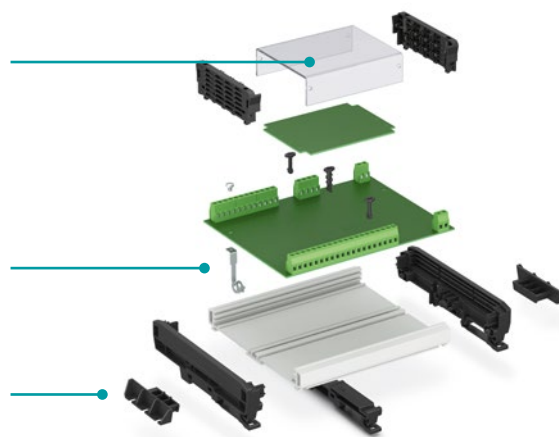
Housing color options (based on RAL color system):

■ 7035

Other colors 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 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.



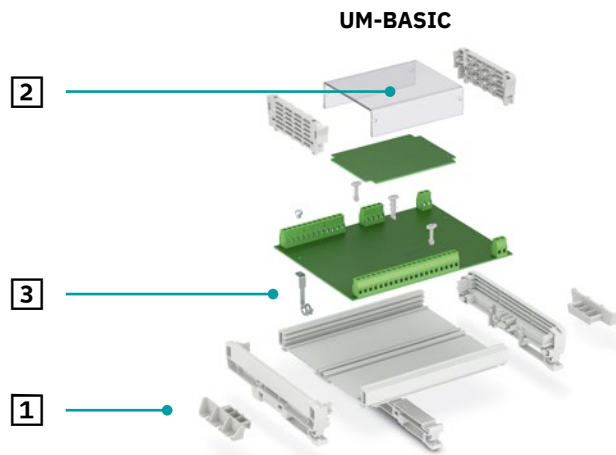
Web code: #0512

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 PROFILE							72 mm	108 mm	122 mm
	Item no.	Profile width	Length [cm] ¹⁾	Color					
Example:	2200149	/	UM72	/	14.3	/	GY7035		
	PVC profile, customized profile width and length in accordance with order key, color: light gray				UM-BASIC PROFILE		2200149		
	Side elements (left) with mounting foot for NS 35 DIN rail, color: light gray				UM-BASIC/PRO ... COVER-L KMGY		2202018	2202021	2202045
	Side elements (right) with mounting foot for NS 35 DIN rail, color: light gray				UM-BASIC/PRO ... COVER-R KMGY		2202019	2202022	2202046

2 Profile cover, PC insulation material									
									
Order key for U-shaped profile covers							UM-BASIC profile Profile width (internal)		
	Item no.	Cover	Length [cm] ¹⁾				72 mm	108 mm	122 mm
Example:	2202036	/	AU 73	/	14.1				
	U-shaped profile cover, 73 mm wide, low version, color: transparent				UM-BASIC/PRO A/U N 73 CM		2202035		
	U-shaped profile cover, 73 mm wide, tall version, color: transparent				UM-BASIC/PRO A/U 73 CM		2202036		
	U-shaped profile cover, 92 mm wide, color: transparent				UM-BASIC/PRO A/U 92 CM		2202037		
	Side element for low U-shaped profile cover UM-BASIC/PRO A/U N 73 CM, color: light gray				UM-BASIC/PRO LID-73N KMGY		2202034		
	Side element for tall U-shaped profile cover UM-BASIC/PRO A/U 73 CM, color: light gray				UM-BASIC/PRO LID-73 KMGY		2202033		
	Side element for U-shaped profile cover UM-BASIC/PRO A/U 92 CM, color: light gray				UM-BASIC/PRO LID-92 KMGY		2202047		

Configure your desired product



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

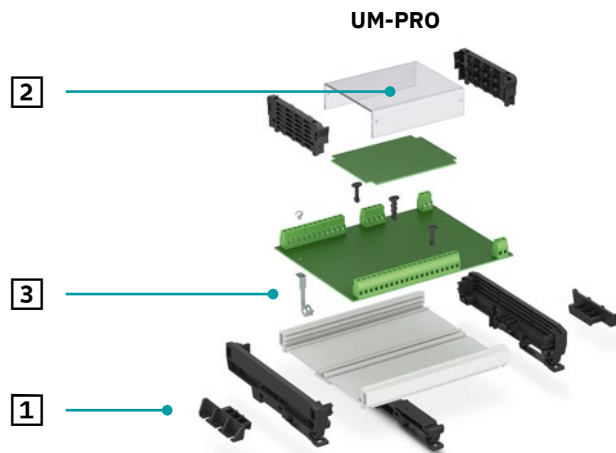
PE contact metals, including mounting screw			UM-PRO profile Profile width (internal)		
			72 mm	108 mm	122 mm
	Version for top PCB level	UM-PRO PE CONTACT L1	2200161		
	Version for middle PCB level	UM-PRO PE CONTACT L2	2200162		
	Version for bottom PCB level	UM-PRO PE CONTACT L3	2200163		
Additional elements for securing the PCB			UM-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 panel 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 PROFILE							72 mm	108 mm	122 mm
	Item no.	Profile width	Length [cm] ¹⁾	Color					
Example:	2200148	/	UM72	/	14.3	/	GY7035		
	Polyamide profile, customized profile width and length in accordance with order key, color: light gray				UM-PRO PROFILE		2200148		
	Side elements (left) with mounting foot for NS 35 DIN rail, color: black				UM-PRO ... COVER-L BK		2200151	2200155	2200158
	Side elements (right) with mounting foot for NS 35 DIN rail, 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)		
	Item no.	Cover	Length [cm] ¹⁾				72 mm	108 mm	122 mm
Example:	2200311	/	AU 73	/	14.1				
	U-shaped profile cover, 73 mm wide, low version, color: transparent				UM-PRO A/U N 73 CM		2200310		
	U-shaped profile cover, 73 mm wide, tall version, color: transparent				UM-PRO A/U 73 CM		2200311		
	U-shaped profile cover, 92 mm wide, color: transparent				UM-PRO A/U 92 CM		2200312		
	Side element for UM-PRO A/U N 73 CM low U-shaped profile cover, color: black				UM-PRO LID-73N BK		2200174		
	Side element for tall U-shaped profile cover UM-PRO A/U 73 CM, color: black				UM-PRO LID-73 BK		2200173		
	Side element for U-shaped profile cover UM-PRO A/U N 92 CM, color: black				UM-PRO LID-92 BK		2200172		

Configure your desired product



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**

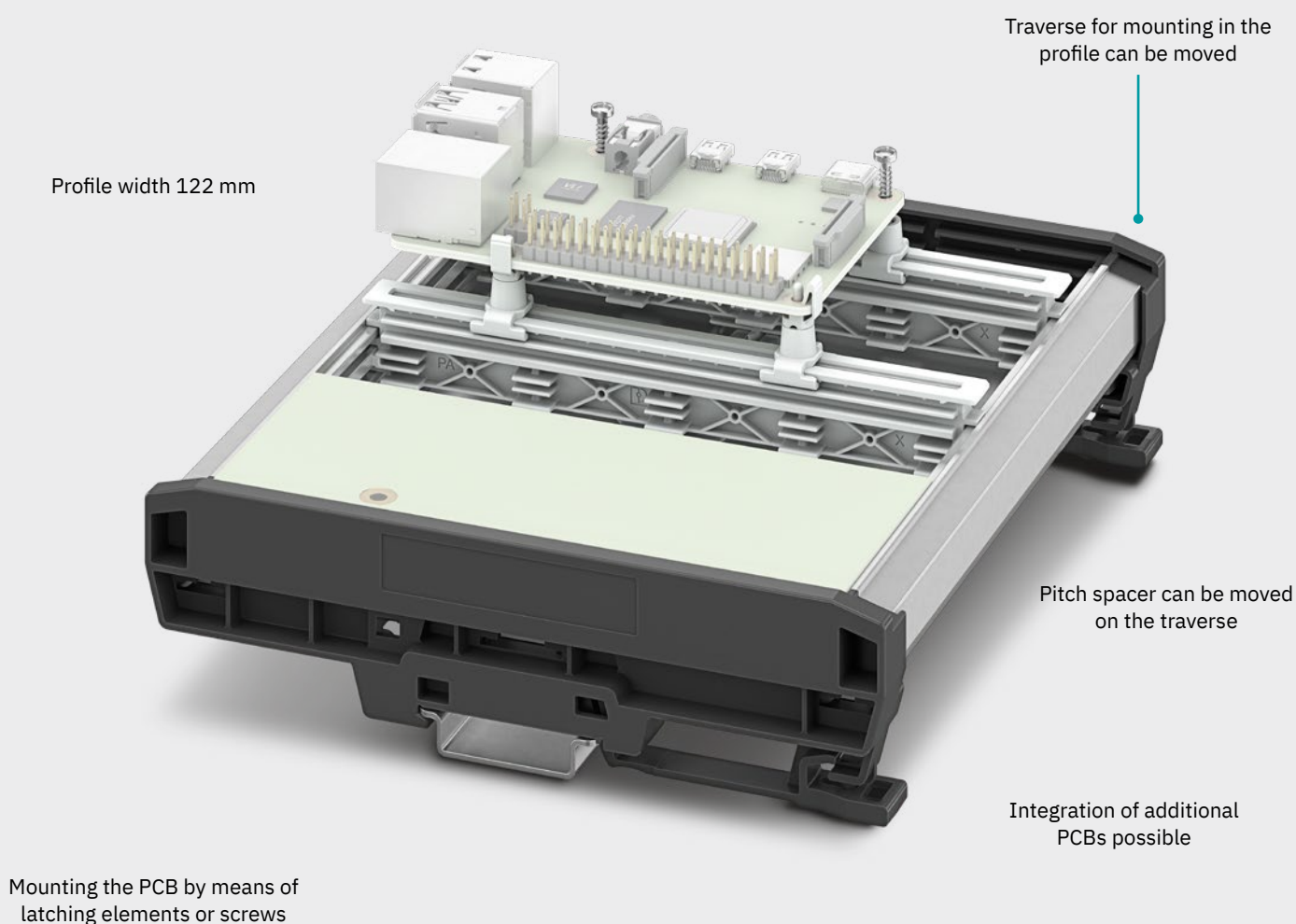
3 Accessories

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 panel 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		

Flexible PCB holder system

Device for UM extruded profile housings

Individually adjustable and flexible carrier system for PCBs of various sizes and shapes. PCBs can be routed and secured on the UM profile using a latching or screw mechanism.



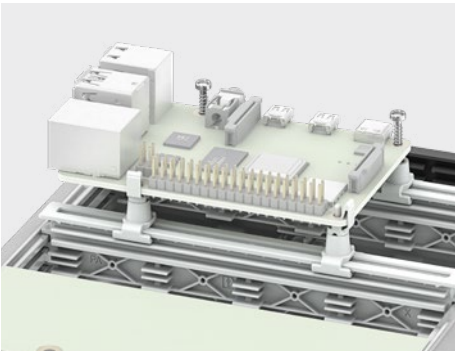
Your advantages



Modular system for accommodating PCBs of different dimensions in the UM-BASIC/-PRO housing system with a width of 122 mm.



The traverses in the profile can be latched in place and moved. The device for holding the PCB can be individually adjusted depending on the hole pattern of the PCB.



The PCB is latched into place using the plug-in or screw mechanism. It is possible to combine with PCBs in the profile.

UM-PRO PCB holder sets for 122 mm profile width			
Set	UM-PRO 122 EVA KIT	UM-PRO 122 EVA KIT 22CM	UM-PRO 122 EVA KIT 22CM MOUNT
Description	PCB holder system for mounting in UM-BASIC/PRO profile housing with a width of 122 mm	PCB holder system incl. UM-PRO 122 with 22 cm length	PCB holder system incl. UM-PRO 122 with 22 cm length incl. wall mounting flange
Additional elements for securing the PCB	RAL 7035	RAL 7035	RAL 7035
Item no.	1538969	1538967	1538968

UM-BASIC extruded profile housings as a kit

Profile housings for mounting on a DIN rail

UM-BASIC-KIT-...-7035 includes:

- 1x UM-BASIC profile housing (PVC), RAL 7035 (gray)
- 2x side elements (PA), RAL 7035 (gray)
- For accommodating PCBs

You will receive all the parts in one complete pack.



DISTR-KIT

Designation	Item no.	For PCB			Dimensions of profile housing when assembled and mounted on DIN rail		
		Width mm	Length mm	Surface area mm ²	Width mm	Height mm	Depth mm
UM-BASIC-KIT-B72-L60-7035	1300344	72	60	2900	63.8	92.3	39.45
UM-BASIC-KIT-B72-L80-7035	1300345	72	80	4300	83.8	92.3	39.45
UM-BASIC-KIT-B72-L100-7035	1300346	72	100	5600	103.8	92.3	39.45
UM-BASIC-KIT-B72-L120-7035	1300347	72	120	7000	123.8	92.3	39.45
UM-BASIC-KIT-B72-L150-7035	1300348	72	150	9000	153.8	92.3	39.45
UM-BASIC-KIT-B72-L180-7035	1300349	72	180	11000	183.8	92.3	39.45
UM-BASIC-KIT-B72-L200-7035	1300350	72	200	12400	203.8	92.3	39.45
UM-BASIC-KIT-B72-L250-7035	1300351	72	250	15700	253.8	92.3	39.45
UM-BASIC-KIT-B108-L60-7035	1300352	108	60	4500	63.8	127.8	39.45
UM-BASIC-KIT-B108-L80-7035	1300353	108	80	6500	83.8	127.8	39.45
UM-BASIC-KIT-B108-L100-7035	1300354	108	100	8600	103.8	127.8	39.45
UM-BASIC-KIT-B108-L120-7035	1300355	108	120	10600	123.8	127.8	39.45
UM-BASIC-KIT-B108-L150-7035	1300356	108	150	13700	153.8	127.8	39.45
UM-BASIC-KIT-B108-L180-7035	1300357	108	180	16800	183.8	127.8	39.45
UM-BASIC-KIT-B108-L200-7035	1300358	108	200	18900	203.8	127.8	39.45
UM-BASIC-KIT-B108-L250-7035	1300359	108	250	24000	253.8	127.8	39.45
UM-BASIC-KIT-B122-L60-7035	1300360	122	60	5100	63.8	142.3	39.45
UM-BASIC-KIT-B122-L80-7035	1300361	122	80	7400	83.8	142.3	39.45
UM-BASIC-KIT-B122-L100-7035	1300362	122	100	9800	103.8	142.3	39.45
UM-BASIC-KIT-B122-L120-7035	1300363	122	120	12100	123.8	142.3	39.45
UM-BASIC-KIT-B122-L150-7035	1300364	122	150	15700	153.8	142.3	39.45
UM-BASIC-KIT-B122-L180-7035	1300365	122	180	19200	183.8	142.3	39.45
UM-BASIC-KIT-B122-L200-7035	1300366	122	200	21500	203.8	142.3	39.45
UM-BASIC-KIT-B122-L250-7035	1300367	122	250	27400	253.8	142.3	39.45

Note: The PCB surface area specification is for orientation purposes and is based on a basic PCB. UM-BASIC housings can also accommodate several PCBs.

From the standard product range

Housing set, development kit	2202528	UM-BASIC 108 100MM DEV-KIT KMGY
PCB for UM-BASIC 108 DEV-KIT	2202551	UM-BASIC 108/32 DEV-PCB
UM-BASIC sample set	52005309	SST HOUSING UM-BASIC 108

UM-PRO extruded profile housings as a kit

Profile housings for mounting on a DIN rail

UM-PRO-KIT-...-7035 includes:

- 1x UM-PRO profile housing (PA), RAL 7035 (gray)
- 2x side elements (PA), RAL 9005 (black)
- For accommodating PCBs

You will receive all the parts in one complete pack.



DISTR-KIT

Designation	Item no.	For PCB			Dimensions of profile housing when assembled and mounted on DIN rail		
		Width mm	Length mm	Surface area mm ²	Width mm	Height mm	Depth mm
UM-PRO-KIT-B72-L60-7035	1310823	72	60	2900	63.8	92.3	39.45
UM-PRO-KIT-B72-L80-7035	1310926	72	80	4300	83.8	92.3	39.45
UM-PRO-KIT-B72-L100-7035	1310928	72	100	5600	103.8	92.3	39.45
UM-PRO-KIT-B72-L120-7035	1310929	72	120	7000	123.8	92.3	39.45
UM-PRO-KIT-B72-L150-7035	1310930	72	150	9000	153.8	92.3	39.45
UM-PRO-KIT-B72-L180-7035	1310932	72	180	11000	183.8	92.3	39.45
UM-PRO-KIT-B72-L200-7035	1310933	72	200	12400	203.8	92.3	39.45
UM-PRO-KIT-B72-L250-7035	1310935	72	250	15700	253.8	92.3	39.45
UM-PRO-KIT-B108-L60-7035	1310938	108	60	4500	63.8	127.8	39.45
UM-PRO-KIT-B108-L80-7035	1310939	108	80	6500	83.8	127.8	39.45
UM-PRO-KIT-B108-L100-7035	1310941	108	100	8600	103.8	127.8	39.45
UM-PRO-KIT-B108-L120-7035	1310942	108	120	10600	123.8	127.8	39.45
UM-PRO-KIT-B108-L150-7035	1310946	108	150	13700	153.8	127.8	39.45
UM-PRO-KIT-B108-L180-7035	1310948	108	180	16800	183.8	127.8	39.45
UM-PRO-KIT-B108-L200-7035	1310949	108	200	18900	203.8	127.8	39.45
UM-PRO-KIT-B108-L250-7035	1310953	108	250	24000	253.8	127.8	39.45
UM-PRO-KIT-B122-L60-7035	1310981	122	60	5100	63.8	142.3	39.45
UM-PRO-KIT-B122-L80-7035	1310983	122	80	7400	83.8	142.3	39.45
UM-PRO-KIT-B122-L100-7035	1310984	122	100	9800	103.8	142.3	39.45
UM-PRO-KIT-B122-L120-7035	1310987	122	120	12100	123.8	142.3	39.45
UM-PRO-KIT-B122-L150-7035	1310988	122	150	15700	153.8	142.3	39.45
UM-PRO-KIT-B122-L180-7035	1310989	122	180	19200	183.8	142.3	39.45
UM-PRO-KIT-B122-L200-7035	1310990	122	200	21500	203.8	142.3	39.45
UM-PRO-KIT-B122-L250-7035	1310991	122	250	27400	253.8	142.3	39.45

Note: The PCB surface area specification is for orientation purposes and is based on a basic PCB.
UM-PRO housings can also accommodate several PCBs.

From the standard product range

UM-PRO sample set	52005226	SST HOUSING UM-PRO 108
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UM-BASIC and UM-PRO series configuration overview

PCB terminal blocks for conductor cross-sections up to 0.5 mm² (20 AWG)							
Push-in spring connection							
 Web code: #0706	Product family	Notes	Number of positions	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 (16 AWG)							
Screw connection with tension sleeve							
 Web code: #0709	Product family	Notes	Number of positions	Pitch [mm]	Current [A]	Voltage ¹⁾ [V]	Connection direction
	MKDS 1	-	2 ... 16	3.5/3.81	17.5 IEC 10 UL (B, D) ²⁾	200 IEC 300 UL (B, D) ²⁾	0°
	MKDSN 1,5	Low-profile design	2-/3-pos. alignable	5.0/5.08	17.5 IEC 10 UL (B, D) ²⁾	400 IEC 300 UL (B, D) ²⁾	0°

¹⁾ IEC rated insulation voltage for 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 1.5 mm² (16 AWG)

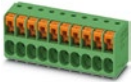
Push-in spring connection

 Web code: #0710	Product family	Notes	Number of positions	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	17.5 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	17.5 IEC 10 UL (B, D) ²⁾	160 IEC 300 UL (B, D) ²⁾	90°
	SPT-THR 1,5/...-H	THR soldering, various pin lengths available	2 ... 12	5.0/5.08	17.5 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	17.5 IEC 10 UL (B, D) ²⁾	320 IEC 300 UL (B, D) ²⁾	90°

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

²⁾ Nominal current and nominal voltage in accordance with UL Use Group B or D.

UM-BASIC and UM-PRO series configuration overview

PCB terminal blocks for conductor cross-sections up to 2.5 mm² (14 AWG)							
Push-in spring connection							
Web code: #0715	Product family	Notes	Number of positions	Pitch [mm]	Current [A]	Voltage ¹⁾ [V]	Connection direction
	TDPT 2,5/...-SP	Contour-matched PCB terminal block also available with screw connection	2 ... 12	5.08	24 IEC 20 UL (B, C) ²⁾ 10 UL (D) ²⁾	400 IEC 300 UL (B, D) ²⁾ 150 UL (C) ²⁾	0°
	SPT-THR 2,5/...-H	THR soldering	2 ... 12	5.0	24 IEC 20 UL (B, F) ²⁾ 10 UL (D) ²⁾	400 IEC 300 UL (B, D) ²⁾ 500 UL (F) ²⁾	0°

Lever Push-in connection							
Web code: #2660	Product family	Notes	Number of positions	Pitch [mm]	Current [A]	Voltage ¹⁾ [V]	Connection direction
	LPT 2,5	-	1 ... 12	5.0	24 IEC 20 UL (B, F) ²⁾ 10 UL (D, G) ²⁾	400 IEC 300 UL (B, D, G) ²⁾ 320 UL (F) ²⁾	0°

PCB connectors for conductor cross-sections up to 0.5 mm² (20 AWG)							
Double-row headers: THR soldering, male							
Web code: #1172	Product family	Notes	Number of positions	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°

¹⁾ IEC rated insulation voltage for 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 1.5 mm² (16 AWG)

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

 Web code: #1206	Product family	Notes	Number of positions	Pitch [mm]	Current [A]	Voltage ¹⁾ [V]	Connection direction
	SDDC 1,5/...-PV-3,5	With body-bound rivets for locking on the PCB	2 ... 16	3.5	8 IEC 8 UL (B, D) ²⁾	160 IEC 300 UL (B, D) ²⁾	90°

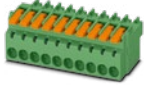
Connectors: Push-in spring connection, female

 Web code: #0756	Product family	Notes	Number of positions	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 for overvoltage category III/pollution degree 2

²⁾ Nominal current and nominal voltage in accordance with UL Use Group B or D.

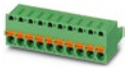
UM-BASIC and UM-PRO series configuration overview

Connectors: lever Push-in connection, female							
Web code: #2663	Product family	Notes	Number of positions	Pitch [mm]	Current [A]	Voltage ¹⁾ [V]	Connection direction
	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	Number of positions	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°
Headers: wave soldering, male							
Web code: #0762	Product family	Notes	Number of positions	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 locking system	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°

PCB connectors for conductor cross-sections up to 2.5 mm² (14 AWG)							
Connectors: Push-in spring connection, SKEDD direct-connection technology							
Web code: #0786	Product family	Notes	Number of positions	Pitch [mm]	Current [A]	Voltage ¹⁾ [V]	Connection direction
	SDC 2,5/...-PV-5,0-ZB	With body-bound rivets for locking 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	Number of positions	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 locking system	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⁾ IEC rated insulation voltage for overvoltage category III/pollution degree 2

²⁾ Nominal current and nominal voltage in accordance with UL Use Group B, C, or D.

Connectors: Push-in spring connection, female							
 Web code: #0779	Product family	Notes	Number of positions	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 locking system	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							
 Web code: #2664	Product family	Notes	Number of positions	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 locking system	2 ... 20	5.08	16 IEC 16 UL (B, C) ²⁾	320 IEC 300 UL (B, C) ²⁾	0°
Headers: THR soldering, male							
 Web code: #0789	Product family	Notes	Number of positions	Pitch [mm]	Current [A]	Voltage ¹⁾ [V]	Connection direction
	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 locking system	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°
Headers: wave soldering, male							
 Web code: #0790	Product family	Notes	Number of positions	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 locking system	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°

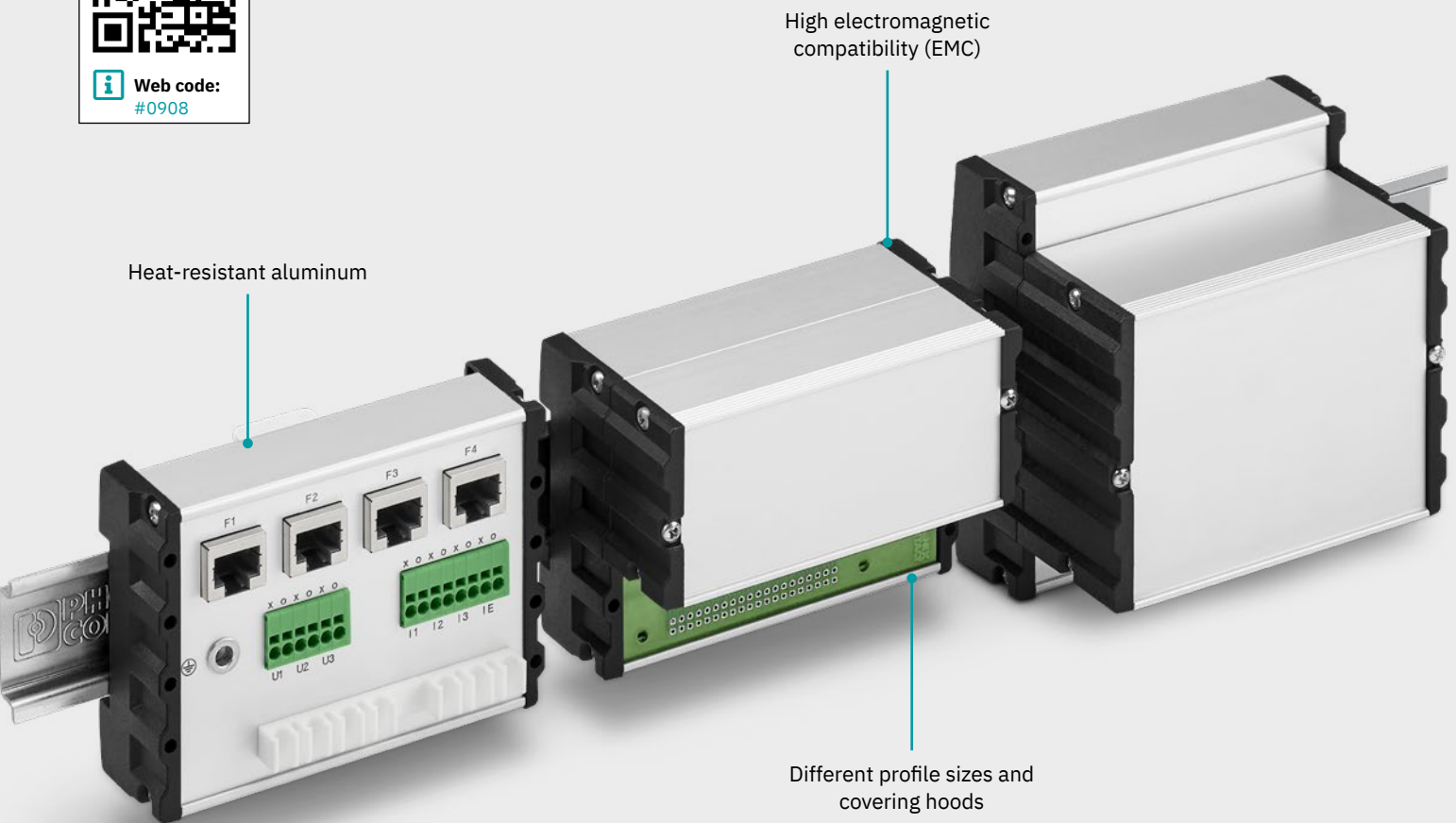
¹⁾ IEC rated insulation voltage for overvoltage category III/pollution degree 2

²⁾ Nominal current and nominal voltage in accordance with UL Use Group B, C, or D.

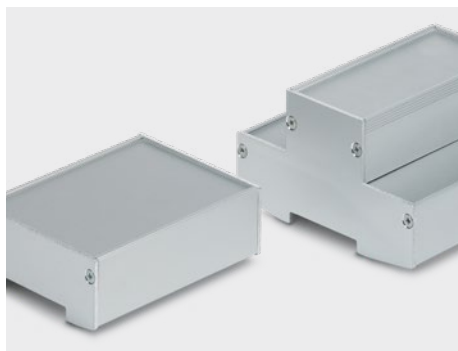
UM-ALU extruded profile housings

For EMC-sensitive electronics

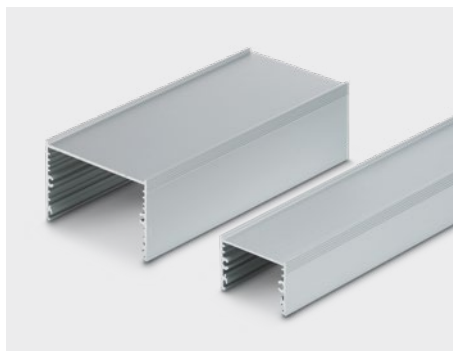
Made entirely from aluminum, the UM-ALU housing system offers a high degree of electromagnetic compatibility (EMC) and ensures full flexibility in the assembly process. The housings are therefore particularly suitable for industrial environments with high electromagnetic interference potential.



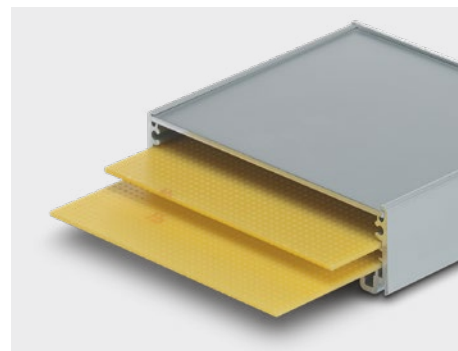
Your advantages



Heat-resistant aluminum for optimum protection of sensitive electronics.

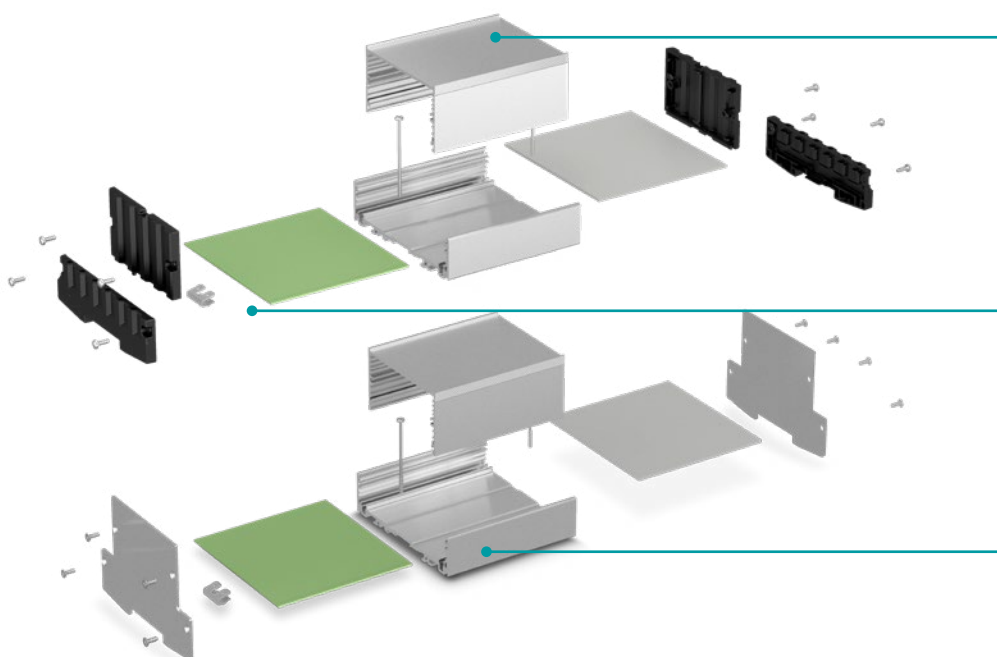


Different profile sizes and covering hoods for electronics modules suited to the application.



PCB installation on up to seven levels for flexible electronics solutions.

Configure your desired product



2 Specify the profile cover

3 Search for accessories

1 Select the basic profile and lateral plates

Go directly to the online configurator

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

 **Web code:** #0512

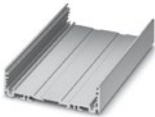
Housing color options (based on RAL color system):

■ 9006

Other colors on request.

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

UM-ALU series configuration overview

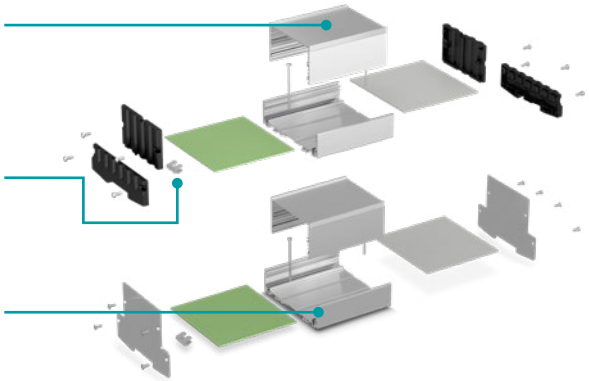
1 One-piece basic profile, anodized aluminum			
Description	Type		
		Profile width (internal)	
		72 mm	100.5 mm
Length 42.5 mm	UM-ALU 4- ... PROFILE 42,5	2200917	2200935
Length 60 mm	UM-ALU 4- ... PROFILE 60	2200918	2200936
Length 95 mm	UM-ALU 4- ... PROFILE 95	2200919	2200937
Length 130 mm	UM-ALU 4- ... 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 to be bolted 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 desired product

2

3

1



Go directly to the online configurator

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

 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 panel, 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

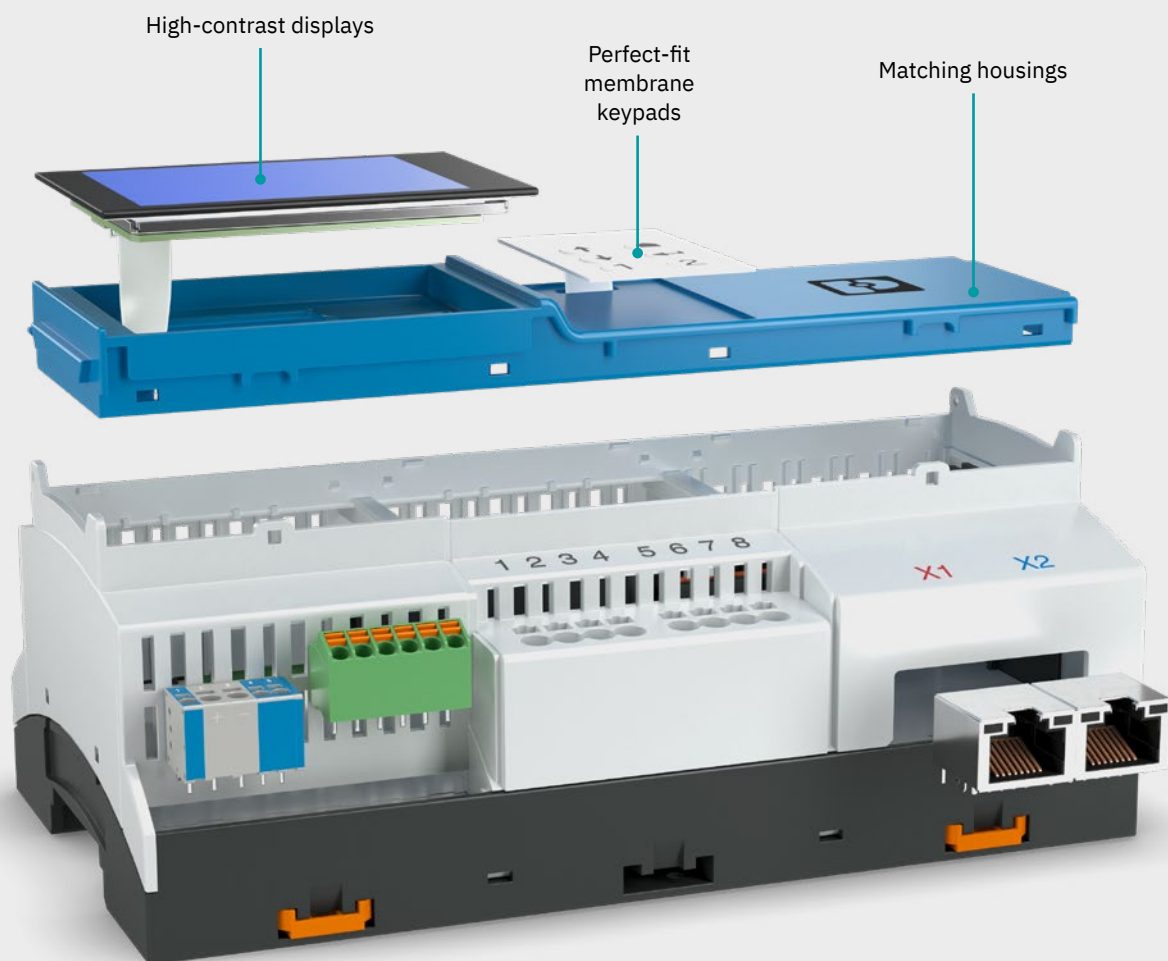
2200973

2200973

¹⁾ Basic profile front panel with the ending AP for use with UM-ALU 4- ... COVER AL aluminum 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



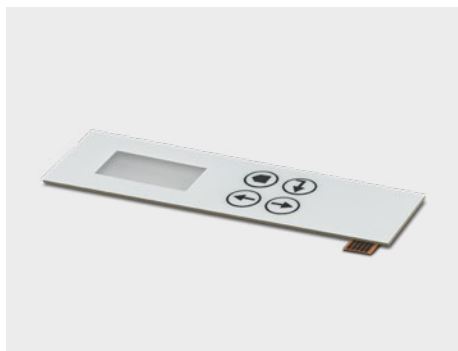
High-contrast TFT displays with additional mounting material for installation in electronics housings.



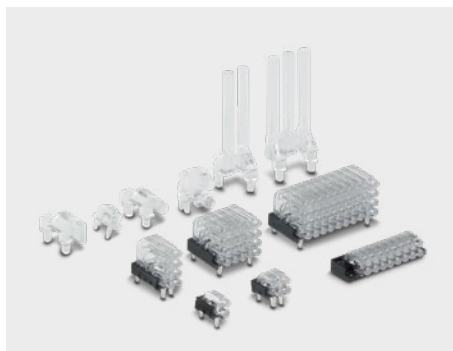
Display carriers in different color versions for tool-free installation in the ME, ME MAX, and ME-IO housing families.



Capacitive touch displays for installation in electronics housings.



Membrane keypads for the ICS, BC, 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.



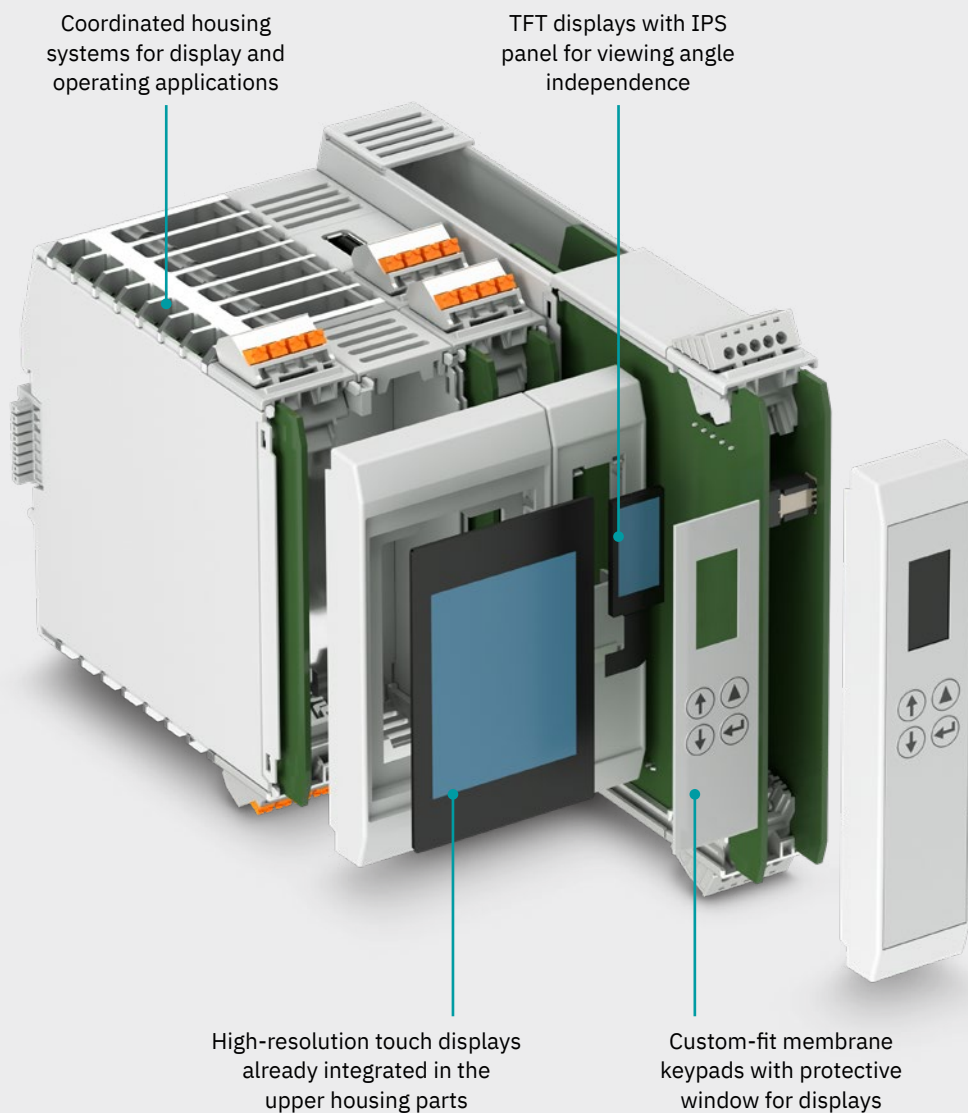
Functional ground contact for reliable contacting of the PCB on the DIN rail.



Metal and plastic base latches.

Displays for electronics housings

Demand for the 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 keypads.



Displays for electronics housings

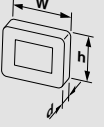
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2

3

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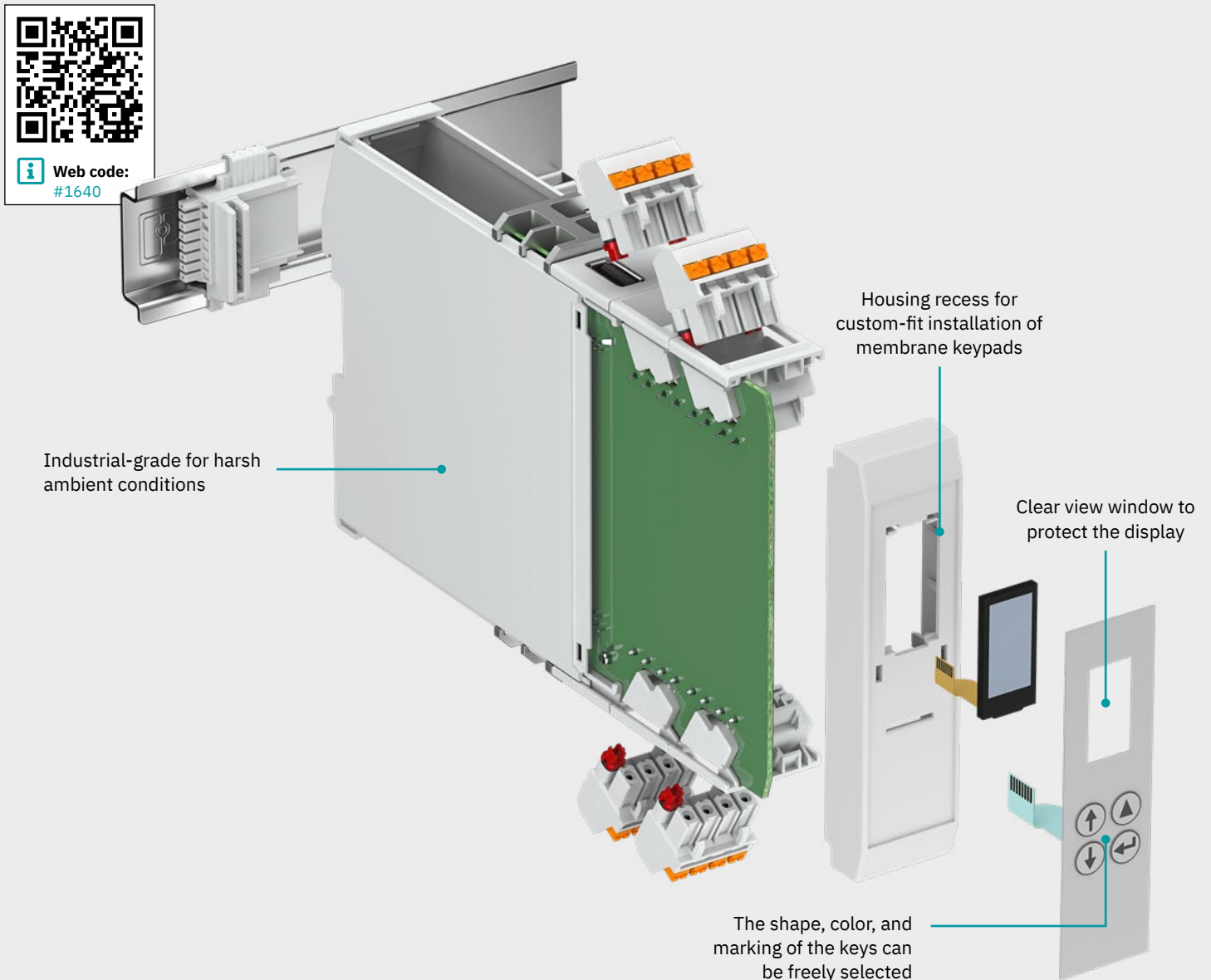
Configuration pages

Displays Web code: #1639				
				
Item no.	1215685	1132710	2203537 ¹⁾	1342719
Color	Without ICS cover on request		Light gray (RAL 7035)	
Type	ICS25-C122X12-DKP-7035	DCT T 2,4 QVGA S RTOUCH	DFC T 2,4 QVGA S 7035	DCT T 2,4 QVGA RI CTOUCH
Diagonal	0.96"	2.4"	2.4"	2.4"
Resolution	160 x 80	320 x 240	320 x 240	320 x 240
Technology	TFT, IPS panel	TFT, resistive touch	TFT	TFT Capacitive touch
Interface	SPI	SPI	SPI	Display: SPI Touch: I ² C
Recommended housing use	ICS25	ICS50, ME-IO 56,2, UCS, MCS	ME-IO 75,2, ME 67,5 OT, ME 90 OT, ME MAX 90	BC 71,6, BC 107,6, BC 161,6
Temperature range for operation [°C]	-20 ... +70	-20 ... +70	-20 ... +70	-20 ... +70
 Mounting panel dimensions	Width / w [mm]	13.5	74.4	71.5
	Depth / d [mm]	1.5	7	7.8
	Height / h [mm]	27.95	47.4	59.2
Brightness [cd / m ²]	400	180	220	425

1) Items 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. Membrane keypads are used in many areas of industrial production as well as in machine building and logistics. 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.			1337341	1337344	2203574	1215683	1215684
Type			KP BC K4 C2 P5	KP BC K6 C2 P5	KP HC-ALU 100 K4 C4 P6	KP ICS 25X100 K4 C3 P5	KP ICS 25X122 K4 C3 P5
Number of keys / colors			4 keys, 2 colors	6 keys, 2 colors	4 keys, 4 colors	4 keys, 3 colors, 1" TFT cutout	4 keys, 3 colors, 1" TFT cutout
Dimen- sions	Width [mm]		28	28	95	22.2	22.2
	Height [mm]		42	42	72	80.7	103.2
Pitch of membrane cable [mm]			1.0	1.0	1.0	1.0	1.0
Length of membrane cable [mm]			80	80	47.3	13.1	13.1
Recommended housing use			BC 107,6 BC 161,6	BC 107,6 BC 161,6	UM-ALU, HC-ALU	ICS25X100	ICS25X122
Connection			7-position	7-position	6-position	5-position	5-position

ICS series membrane keypad configurator

Configure your tailored membrane keypad for your unique design with the modular ICS housing system.

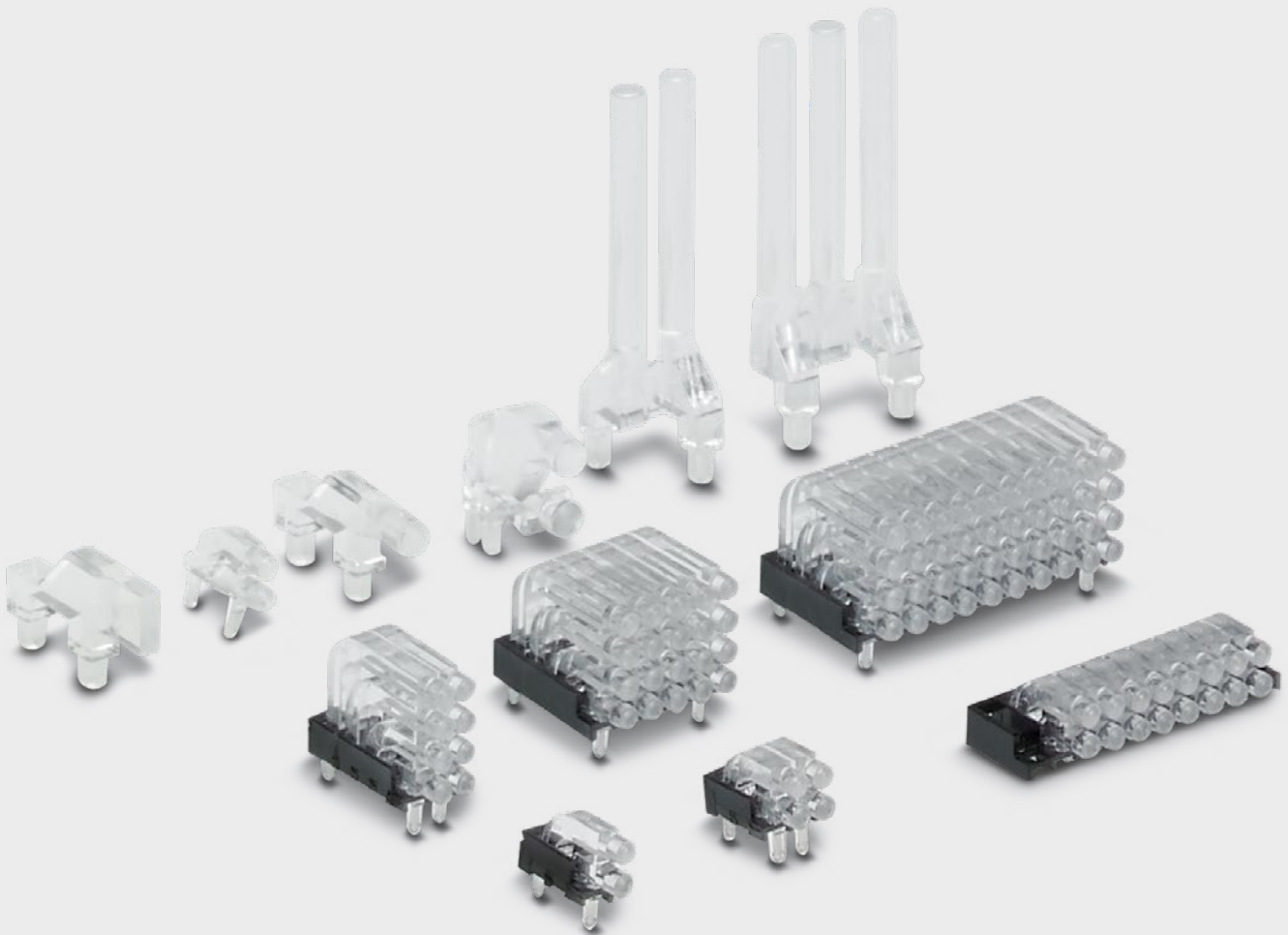
1. Assemble your housing online to fit your application with our electronics housing configurator (web code: #0512)
2. Select the ICS 25 housing

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



Light guides for electronics housings

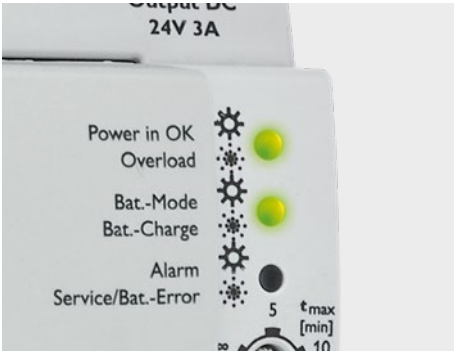
Status display is an elementary function of electronic devices. The end user should be able to recognize quickly and clearly if a device is switched on or off, if there is a malfunction, or if data is currently being transferred. This is typically indicated by LEDs, usually colored ones. The task of the device developer is to make this LED-indicated status visible from the outside through the housing panel. This requires light guides in a wide range of designs.



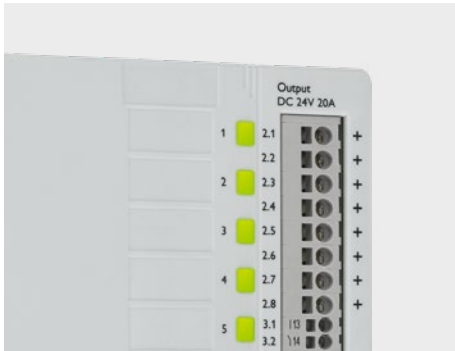
Light guides for electronics housings



Light guides in ME-IO housing



Light guides in BC housing

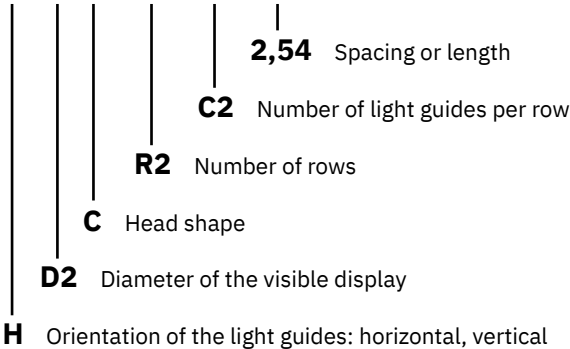


Light guides in ME MAX housing

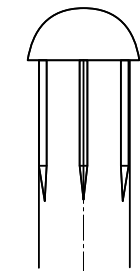
Information on the item designation of light guides

Our light guides are available in a variety of designs and can be used for reliable status display in your devices. Benefit from different head shapes and orientations.

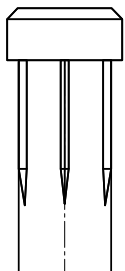
HS LC-H-D2 C / R2XC2-2,54



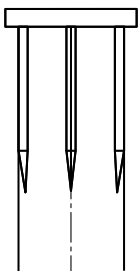
Light guide head shapes



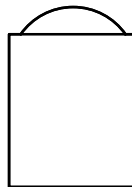
Head shape SP (spherical)



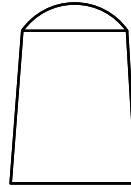
Head shape PL (planar)



Head shape CS (countersunk head)



Head shape D2 (diameter 2 mm)



Head shape D2C (diameter of 2 mm, conical)

Light guides for electronics housings

Round light guide, vertical installation						
Series	Item no.	Type	Size of indicators	Number of indicators	Length	Use Housing family
	2202311	HS LC-V-D3/ R2XC1-5,08	3 mm	2 (2 x 1)	30 mm	BC; UM
	2202312	HS LC-V-D3/ R3XC1-5,08		3 (3 x 1)	30 mm	
	1531520	HS LC-V-D3/ R4XC1-5,08		4 (4 x 1)	30 mm	
	1531521	HS LC-V-D3/ R5XC1-5,08		5 (5 x 1)	30 mm	
	1531526	HS LC-V-D3/ R6XC1-5,08		6 (6 x 1)	30 mm	
	1531501	HS LC-V-D3/ R2XC1-5,08		2 (2 x 1)	15 mm	
	1531503	HS LC-V-D3/ R3XC1-5,08		3 (3 x 1)	15 mm	
	1531504	HS LC-V-D3/ R4XC1-5,08		4 (4 x 1)	15 mm	
	1531509	HS LC-V-D3/ R5XC1-5,08		5 (5 x 1)	15 mm	
	1531517	HS LC-V-D3/ R6XC1-5,08		6 (6 x 1)	15 mm	
	1531518	HS LC-V-D3/ R7XC1-5,08		7 (7 x 1)	15 mm	

Round light guide, for installation in front panels						
Series	Item no.	Type	Size of indicators	Number of indicators/ head shape	Length	Recommended housing use
	1474238	HS LC-D3,2SP-7	3.2 mm	1 / SP	7 mm	Can be used universally
	1474355	HS LC-D3,2SP-45	3.2 mm	1 / SP	45 mm	
	1474359	HS LC-D5SP-8,5	5 mm	1 / SP	8.5 mm	
	1474361	HS LC-D5SP-45	5 mm	1 / SP	45 mm	
	1474362	HS LC-D3,2PL-7	3.2 mm	1 / PL	7 mm	
	1474363	HS LC-D3,2PL-45	3.2 mm	1 / PL	45 mm	
	1474364	HS LC-D5PL-8,5	5 mm	1 / PL	8.5 mm	
	1474365	HS LC-D5PL-45	5 mm	1 / PL	45 mm	
	1474366	HS LC-D3,2CS-7,5	3.2 mm	1 / CS	7.5 mm	
	1474367	HS LC-D3,2CS-45	3.2 mm	1 / CS	45 mm	
	1773661	HS LC-D3,2CS-9,6	3.2 mm	1 / CS	9.6 mm	
	1474368	HS LC-D5CS-8,5	5 mm	1 / CS	8.5 mm	
	1474370	HS LC-D5CS-45	5 mm	1 / CS	45 mm	
	1549673	HS LC-D5CS-38,2	5 mm	1 / CS	38.2 mm	

Other lengths available on request.

Rectangular light guide, single-row, horizontal installation 5 x 2 mm

Series	Item no.	Type	Size of indicators	Number of indicators	Pitch	Recommended housing use
	2202314	HS LC-H-5x2/ R1xC1	5 x 2 mm	1 (1 x 1)		EH, ME, ME MAX, ME-IO, ME-PLC, BC 17,8, ICS

Round light guide, single-row, horizontal installation 3 mm

Series	Item no.	Type	Size of indicators	Number of indicators	Pitch	Recommended housing use
	2202313	HS LC-H-D3/ R1XC1	3 mm	1 (1 x 1)	5.08 mm	EH, ME, ME MAX, ME-IO, ICS
	1474372	HS LC-H-D3PL/ R1XC2		2 (1 x 2)		
	1474381	HS LC-H-D3PL/ R1XC3		3 (1 x 3)		
	1474382	HS LC-H-D3PL/ R1XC4		4 (1 x 4)		
	1474384	HS LC-H-D3PL/ R1XC6		6 (1 x 6)		
	1474386	HS LC-H-D3PL/ R1XC8		8 (1 x 8)		

Round light guide, double-row, horizontal installation 3 mm

Series	Item no.	Type	Size of indicators	Number of indicators	Pitch	Recommended housing use
	2202315	HS LC-H-D3/ R2xC1-5,08	3 mm	2 (2 x 1)	5.08 mm	EH, ME, ME MAX, ME-IO, ME-PLC, BC 17,8, ICS
	1474395	HS LC-H-D3PL/ R2XC2-5,08		4 (2 x 2)		
	1474396	HS LC-H-D3PL/ R2XC3-5,08		6 (2 x 3)		
	1474397	HS LC-H-D3PL/ R2XC4-5,08		8 (2 x 4)		
	1474399	HS LC-H-D3PL/ R2XC5-5,08		10 (2 x 5)		

Round light guide, single-row, horizontal installation 2 mm

Series	Item no.	Type	Size of indicators	Number of indicators	Pitch	Recommended housing use
	1474388	HS LC-H-D2SP/ R1XC1	2 mm	1 (1 x 1)		ICS, ME-IO, ME, ME MAX
	1474389	HS LC-H-D2SP/ R1XC2		2 (1 x 2)		
	1474390	HS LC-H-D2SP/ R1XC3		3 (1 x 3)		
	1474391	HS LC-H-D2SP/ R1XC4		4 (1 x 4)		
	1474392	HS LC-H-D2SP/ R1XC6		6 (1 x 6)		
	1474394	HS LC-H-D2SP/ R1XC8		8 (1 x 8)		

Light guides for electronics housings

Round light guide, double-row, horizontal installation 2 mm						
Series	Item no.	Type	Size of indicators	Number of indicators	Pitch	Recommended housing use
	1036658	HS LC-H-D2C/ R2XC1-2,54	2 mm	2 (2 x 1)	2.54 mm	EH, ME, ME MAX, ME-IO, ME-PLC, BC 17,8, ICS
	1043044	HS LC-H-D2C/ R2XC2-2,54		4 (2 x 2)		
	1071310	HS LC-H-D2C/ R2XC5-2,54		10 (2 x 5)		
	1071314	HS LC-H-D2C/ R2XC10-2,54		20 (2 x 10)		
	1036724	HS LC-H-D2C/R2xC4-2,54		8 (2 x 4)		

Round light guide, four-row, horizontal installation 2 mm						
Series	Item no.	Type	Size of indicators	Number of indicators	Pitch	Recommended housing use
	1071316	HS LC-H-D2C/ R4XC2-2,54	2 mm	8 (4 x 2)	2.54 mm	EH, ME, ME MAX, ME-IO, ME-PLC, BC 17,8, ICS
	1071318	HS LC-H-D2C/ R4XC5-2,54		20 (4 x 5)		
	1071321	HS LC-H-D2C/ R4XC9-2,54		36 (4 x 9)		
	1071329	HS LC-H-D2C/ R4XC10-2,54		40 (4 x 10)		
	1036727	HS LC-H-D2C/R4xC4-2,54		16 (4 x 4)		

Round light guide, double-row, horizontal installation, non-conical head shape						
Series	Item no.	Type	Size of indicators	Number of indicators	Pitch	Recommended housing use
	2202316	HS LC-H-D2/ R2XC1-2,54	2 mm	2 (2 x 1)	2.54 mm	EH, ME, ME MAX, ME-PLC, BC 17,8, ICS
	2202317	HS LC-H-D2/ R2XC2-2,54		4 (2 x 2)		
	1565260	HS LC-H-D2/ R2XC3-2,54		6 (2 x 3)		
	2202531	HS LC-H-D2/ R2XC4-2,54		8 (2 x 4)		
	2202318	HS LC-H-D2/ R2XC5-2,54		10 (2 x 5)		
	2202319	HS LC-H-D2/ R2XC10-2,54		20 (2 x 10)		

Round light guide, three-row, horizontal installation, non-conical head shape						
Series	Item no.	Type	Size of indicators	Number of indicators	Pitch	Recommended housing use
	1393207	HS LC-H-D2/ R3XC1-2,54	2 mm	3 (3 x 1)	2.54 mm	EH, ME, ME MAX, ME-PLC, BC 17,8, ICS
	1104374	HS LC-H-D2/ R3XC10-2,54		30 (3 x 10)		

Round light guide, four-row, horizontal installation, non-conical head shape						
Series	Item no.	Type	Size of indicators	Number of indicators	Pitch	Recommended housing use
	2202320	HS LC-H-D2/ R4XC2-2,54	2 mm	8 (4 x 2)	2.54 mm	EH, ME, ME MAX, ME-PLC, BC 17,8, ICS
	2202532	HS LC-H-D2/ R4XC4-2,54		16 (4 x 4)		
	2202321	HS LC-H-D2/ R4XC5-2,54		20 (4 x 5)		
	2202322	HS LC-H-D2/ R4XC9-2,54		36 (4 x 9)		
	2202323	HS LC-H-D2/ R4XC10-2,54		40 (4 x 10)		

Light guides for electronics housings

LED display with litz wire						
Series	Item no.	Type	Size of indicators	Number of indicators	Length	Recommended housing use
	1082299	HS LCA-RGB 10x5-L	5 mm	1 (active, RGB max. IP68 (EN 60529))	90 mm	ECS, UCS
	1474401	HS LCA-WH 10x5-L		1 (active, LED)		
	1474405	HS LCA-RGB 10x3-L	3 mm	1 (active, RGB)		
	1474406	HS LCA-WH 10x3-L		1 (active, LED)		

LED display with litz wire or spade connector 230 V							
Series	Item no.	Type	Size of indicators	Number of indicators	Length	Recommended housing use	
	1474407	HS LCA-RD 12,5x5-F	5 mm	1 (active, LED 230 V)		ECS, UCS	
	1474408	HS LCA-YE 12,5x5-F					
	1474409	HS LCA-GR 12,5x5-F					
	1474410	HS LCA-RD 12,5x5-L			100 mm		
	1474411	HS LCA-YE 12,5x5-L					
	1474412	HS LCA-GR 12,5x5-L					

Light guide, for installation in front panels						
Series	Item no.	Type	Size of indicators	Number of indicators	Length	Recommended housing use
	1082300	HS LC-V-T-D4X5,2S-45	4 mm, spherical	1 (max. IP68 (EN 60529))	45 mm	ECS, UCS

Light guide, flexible, variable installation						
Series	Item no.	Type	Size of indicators	Number of indicators	Length	Recommended housing use
NEW 	1082301	HS LC-F-T-6X3-150	6 mm	1 (flexible, max. IP68)	150 mm	ECS, UCS
NEW 	1474419	HS LC-F-SP-5,2x2-50	5.2 mm		50 mm	
	1474448	HS LC-F-SP-5,2x2-80			80 mm	
	1474449	HS LC-F-SP-5,2x2-150			150 mm	
	1474451	HS LC-F-CS-5,2x2-50			50 mm	
	1474452	HS LC-F-CS-5,2x2-80			80 mm	
	1474453	HS LC-F-CS-5,2x2-150			150 mm	
NEW 	1474459	HS LC-F-PL-5,2x2-50			50 mm	
	1474461	HS LC-F-PL-5,2x2-80			80 mm	
	1474463	HS LC-F-PL-5,2x2-150			150 mm	

Accessories for electronics housings

UTA DIN rail adapters

 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 latch

 Web code: #2081

									
Type	UM-ALU 4 FOOT	ME MF 12,5	ME MF 17,5	ME-IO 18,8 FOOT CATCH KIT	BASE LATCH 14,4 L30 SPERR OG	EH SNAPLOCK SET WALL MOUNT OG	ICS-FOOT CATCH-H77 KIT	ICS-FOOT CATCH-H100 KIT	ICS-FOOT CATCH-H122 KIT
Item no.	2200974	2707466	2908281	2201812	2896998	2202007	1143118	1143120	1143121
Housing use	UM-ALU...	ME 12,5 UT ME MAX 12,5	ME...UT (≥17,5) ME MAX... (≥17,5)	ME-IO...B	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	Poly-oxymethylene	Poly-oxymethylene	Steel with tin coating	Steel with tin coating	Steel with tin coating
Dimensions	Width [mm]	33.4	12.5	17.5	17.5	14.4	28.8	14.7	14.7
	Height [mm]	20.2	30	30	35.5	29.8	18.7	22.26	33.51
	Depth [mm]	7.9	6.5	6.5	6.5	5.9	4.15	6.5	6.5
Pcs./Pkt.	5	50	50	100	20	50	50	50	50

Monitor brackets

 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
Item no.	1082302	1082303	1082304	1082305
Design	Ball joint	VESA 75/100	Plate 75 x 75 mm, 4 x hole (6.5 mm diameter)	Aluminum profile 40 mm, 2 x sliding block
Material	Glass-fiber reinforced PC	Die-cast aluminum	Glass-fiber reinforced PC	Glass-fiber reinforced PC

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

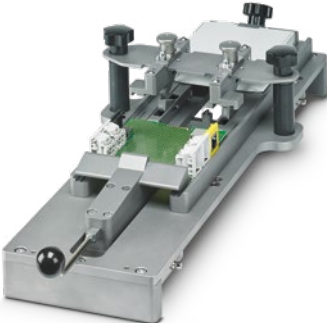
Coding profiles for headers

 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

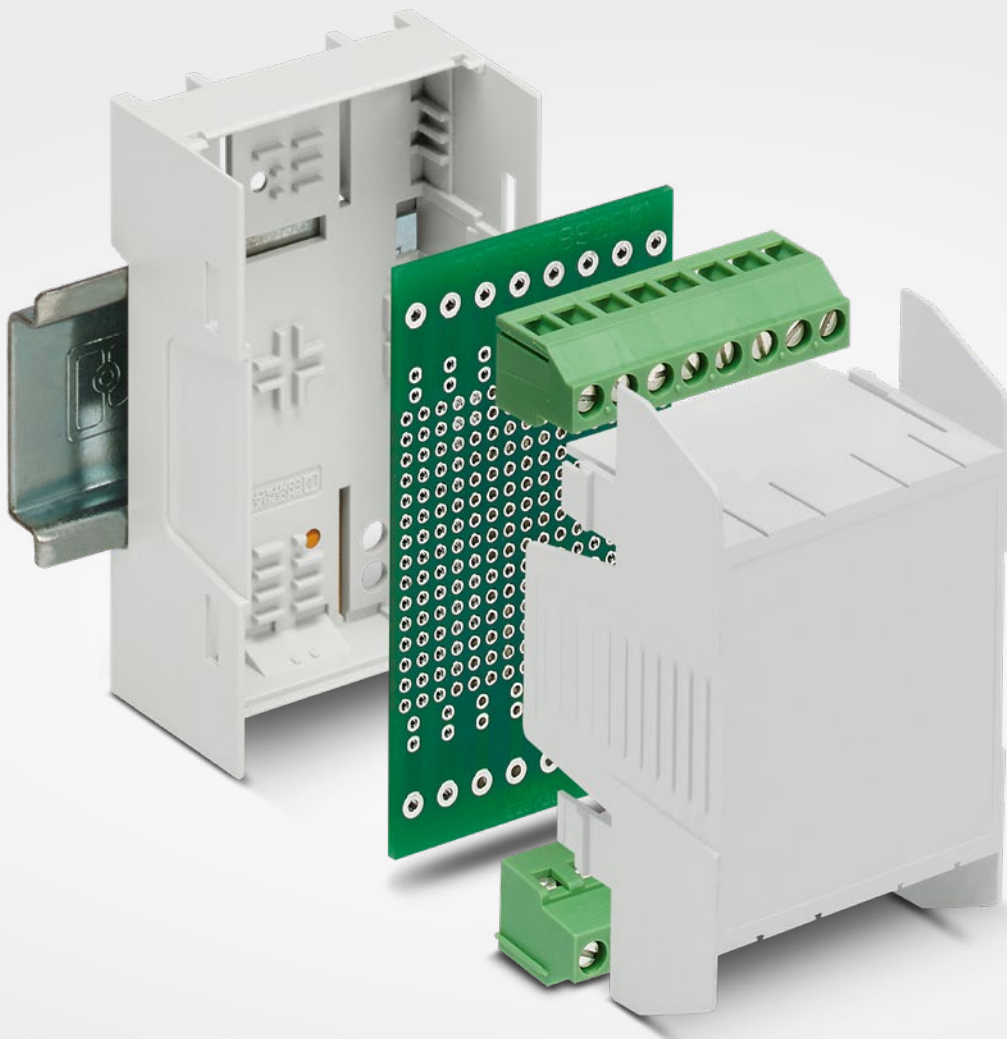
 Web code: #2325

	
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.

Standard housing kits (SKT) and development kits (DEV-KITs)

Standard kits (SKT) make it easier to select the entire housing for your electronics. They contain all the components needed to assemble a fully complete electronics housing that is ready to use straight away.

Development kits (DEV-KITs) are used to test the usability of the housing for the intended application. Suitable perfboard PCBs are available for setting up electronic circuits.

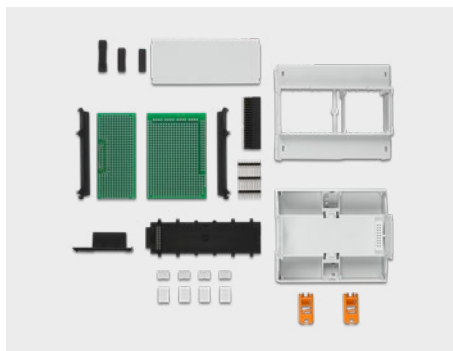


Standard kits (SKT)



Standard housing kits (SKT)

Standard housings in the most commonly used versions with associated connection technology.



DIN rail housings as a kit

DIN rail housings protect the installed PCBs and can be easily mounted on DIN rails in the control cabinet.



Field housings as a kit

Field housings are ideal for countless areas of application in building, industry, or process automation.

Development kits (DEV-KITs)

Produce prototypes and pre-series devices quickly with the development kits (DEV-KITs). These development kits for the various housing families enable individual electronics layouts and connection solutions.

Phoenix Contact offers development kits for DIN rail housings from the BC, EH, ME-IO, ME MAX, ME-PLC, RPI-BC, and UM-BASIC series.



Standard kits

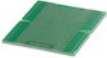
	Description	Dimensions of profile housing when assembled and mounted on DIN rail			Type	Item no.
		Width [mm]	Height [mm]	Depth [mm]		
UM-BASIC-SKT-...-7035						
	UM-BASIC-SKT-...-7035 includes: 1x UM-BASIC profile housing (PVC), RAL 7035 gray 2x side elements (PA), RAL 7035 gray For accommodating PCBs All parts in one complete pack	103.8	92.3	39.45	UM-BASIC-SKT-B72-L100-7035	1456945
		153.8	127.8	39.45	UM-BASIC-SKT-B108-L150-7035	1456960
		183.8	142.3	39.45	UM-BASIC-SKT-B122-L180-7035	1456965
UM-PRO-SKT-...-7035						
	UM-PRO-SKT-...-7035 includes: 1x UM-PRO profile housing (PA), RAL 7035 gray 2x side elements (PA), RAL 9005 black For accommodating PCBs All parts in one complete pack	63.8	92.3	39.45	UM-PRO-SKT-B72-L60-7035	1456975
		123.8	127.8	39.45	UM-PRO-SKT-B108-L120-7035	1456980
		203.8	142.3	39.45	UM-PRO-SKT-B122-L200-7035	1456984
BC 107,6-SKT-...-7035						
	BC...-SKT-...-7035... includes: 1x lower housing part, RAL 9005 black 1x upper housing part, RAL 7035 gray 1x transparent housing cover and insertion plate 4x PCB terminal blocks All parts in one complete pack BC modular PCB terminal blocks Pin strip for KNX connectors Light guides	71.6	89.7	60.7	71,6-SKT-U11-7035+4SPTA6	1456985
		107.6	89.7	60.7	BC 107,6-SKT-U11-7035+4SPTA10	1456991
		71.6	89.7	60.7	BC 71,6-SKT-2P2K00C-7035+SPT-THR25	1452016
		107.6	89.7	60.7	BC 107,6-SKT-1D1K1P0R-7035+SPT-THR15	1449845
ME-IO-SKT-...-7035						
	ME-IO 18,8-SKT-...-TBUS-7035 includes: 1x empty enclosure, RAL 7035 gray, with front connection Front connectors 1x functional ground contact All parts in one complete pack	18.9	124	76.5	ME-IO 18,8-SKT-10U-32-TBUS-7035	1457074
ICS...-SKT-...-7035						
	ICS...-SKT-...-7035+...P...C... includes: 1x lower housing part, RAL 7035 gray 1x upper housing part (closed or with transparent hinged cover) PCB headers and connectors with screw connection or Push-in connection 1x functional ground contact All parts in one complete pack	20	100	116.6	ICS20-SKT-BTL100x110-V-7035+4PSC3	1457077
		25	100	116.7	ICS25-SKT-BTL100x110-V-7035+4PSC4	1457213
		50	100	116.7	ICS50-SKT-BTL100x110-V-V-7035+8PSC4	1457218
		20	100	116.6	ICS20-SKT-BTL100x110-V-7035+4PPC3	1457221
		25	100	116.7	ICS25-SKT-BTL100x110-V-7035+4PPC4	1457224
		50	100	116.7	ICS50-SKT-BTL100x110-V-V-7035+8PPC4	1457226

Standard kits

	Description	Dimensions of profile housing when assembled and mounted on DIN rail			Type	Item no.
		Width [mm]	Height [mm]	Depth [mm]		
ME MAX ...-SKT-...-7035						
	ME MAX ...-SKT-...-7035+...PSPT4 includes: 1x housing side element and intermediate element, RAL 7035 gray 1x transparent hinged cover PCB headers and connectors with Push-in connection 1x functional ground contact All parts in one complete pack	22.6	99	113.65	ME MAX 22,5-SKT-2-2-7035+4PSPT4	1457227
		90.4	99	113.65	ME MAX 90-SKT-2-2-7035+16PSPT4	1457228
ME ...-SKT-...-7035						
	ME ...-SKT-...-7035+4PSPT... includes: 1x housing cup, RAL 7035 gray 1x upper housing part, RAL 7035 gray 4x PCB headers and 4 x connectors with Push-in connection 1x functional ground contact All parts in one complete pack	12.6	99	113.30	ME 12,5-SKT-MSTBO-7035+4PSPT2	1457229
		17.6	99	113.65	ME 17,5-SKT-MSTBO-7035+4PSPT3	1457230
		22.6	99	113.65	ME 22,5-SKT-MSTBO-7035+4PSPT4	1457231
UCS-SKT-...-7035						
	UCS-SKT-...-RPI4B-... includes: 1 x empty enclosure with sides, RAL 7035 or RAL 9005, for Raspberry Pi computer 4B 2 x stands All parts in one complete pack	125	87	47	UCS-SKT-125-87-RPI4B-9005	1457010
		145	125	47	UCS-SKT-145-125-RPI4B-7035	1457011
ECS-SKT-...-7035						
	ECS-SKT-...x...-S-UV-... includes: 1 x housing cup with Gore-Tex membrane, RAL 7042 or RAL 9005 1x front panel for screw locking mechanism (without connection) 2x PCB retaining clips (not included with ECS-KIT-64x80) All parts in one complete pack	163.8	179.8	62.1	ECS-SKT-122x169-S-UV-9005	1457013
		163.8	119.9	62.1	ECS-SKT-122x109-S-UV-7042	1457020
		97.8	89.4	45.1	ECS-SKT-64x80-S-UV-7042	1457026

Development kits

BC 107,6 DEV-KIT

	Description	Type	Item no.
	DEV-KIT BC 107,6 includes: 1 x BC 107,6 housing and PCB terminal blocks (MKDS), supplied as individual parts	BC 107,6 DEV-KIT KMGY	2202525
	PCB (perfboard) 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

ME MAX 22,5 2-2 DEV-KIT

	DEV-KIT ME MAX includes: 1 x ME MAX 22,5 2-2 housing and plug-in connection technology (4 x MSTBO with 4 x MSTBT), supplied as individual parts	ME MAX 22,5 2-2 DEV-KIT KMGY	2202524
	PCB (perfboard) 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

ME-PLC 40 DEV-KIT

	DEV-KIT ME-PLC includes: 1 x ME-PLC 40 housing and plug-in connection technology (36-pos.), supplied as individual parts	ME-PLC 40 DEV-KIT KMGY	2202526
	PCB (perfboard) for the ME-PLC DEV-KIT, for 36-pos. header, suitable for hand soldering	ME-PLC 40/36 BUS DEV-PCB	2202546

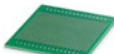
EH 45 FLAT DEV-KIT

	DEV-KIT EH 45 FLAT includes: 1 x EH 45 FLAT housing and PCB terminal blocks (MKDS ... 5,08), supplied as individual parts	EH 45 FLAT DEV-KIT KMGY	2202529
	PCB (perfboard) for the EH 45 FLAT DEV-KIT, for MKDS-5,08 terminal blocks, suitable for hand soldering	EH 45F/16 DEV-PCB	2202552

ME-IO 18,8 DEV-KIT

	DEV-KIT ME-IO includes: 1 x ME-IO 18,8 housing and plug-in connection technology (HSCH with HSCP), supplied as individual parts	ME-IO 18,8 DEV-KIT KMGY	2202527
	PCB (perfboard) for the ME-IO 18,8 DEV-KIT, for HSCH 2,5 PCB with perfboard, 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

UM-BASIC 108 100MM DEV-KIT

	DEV-KIT UM-BASIC includes: 1x UM-BASIC 100MM profile housing and PCB terminal blocks (SMKDS), supplied as individual parts	UM-BASIC 108 100MM DEV-KIT KMGY	2202528
	PCB (perfboard) for the UM-BASIC 108 DEV-KIT, for SMKDS terminal blocks, suitable for hand soldering	UM-BASIC 108/32 DEV-PCB	2202551

ICS25-BC100X110-V-7035 DEV-KIT

	DEV-KIT ICS includes: 1 x ICS housing with closed upper housing part; fillers: closed (2 x), function filler with RJ45 cutout (1 x); connection headers and codable connectors in Push-in Technology (4 x each), FE contact (1 x)	ICS25-BC100X110-V-7035 DEV-KIT	1291125
	PCB (perfboard), suitable for hand soldering, goes with DEV-KIT ICS	ICS-DEV-PCB-01	1054082
	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
	PCB (perfboard), suitable for hand soldering, fits in ICS ... B100X98 ... housing with ICS TL100X12 ... hinged cover, prepared to accommodate 1 x 4-pos. header with 5.0 pitch, 2 x 5-pos. header with 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
	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 customer-specific product developments

You have a challenge – we have the solution. We will support you throughout the product lifecycle, from the initial idea 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 you are looking for special designs or complex electromechanical system solutions, Phoenix Contact will develop your tailored product using processes that have been proven many times over. Shape the innovations of tomorrow with us.



Your advantages

- ✓ Expert 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
- Customer-specific 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 chain
- One contact person throughout the product lifecycle



Contact

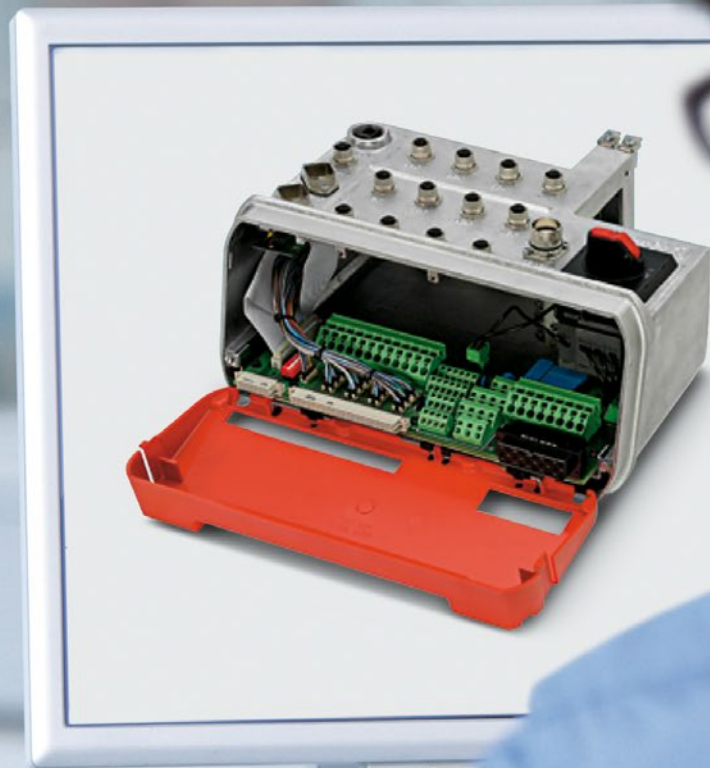
Contact us at

Email: dcsolution@phoenixcontact.com

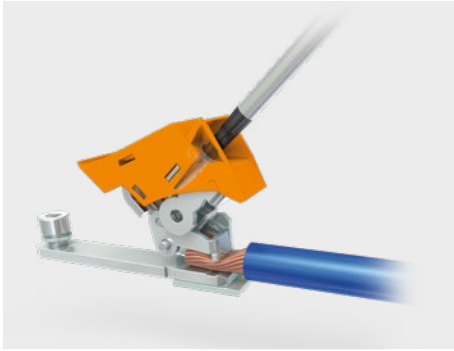
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In-depth expert knowledge in all project phases

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

Solid or stranded conductors, large or small cross-sections, with or without 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.



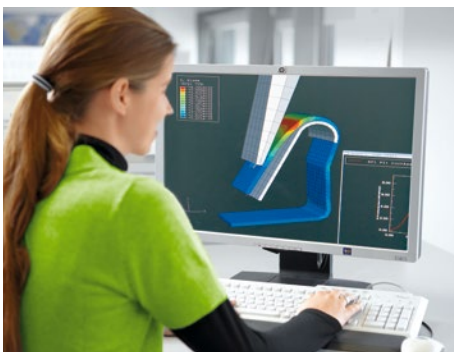
Injection molding production

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 sealing 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 early on.



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

Throughout your development process, Phoenix Contact will provide 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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The easy way to more flexibility

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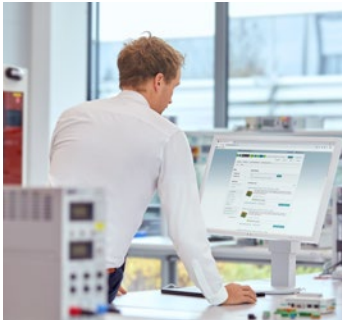
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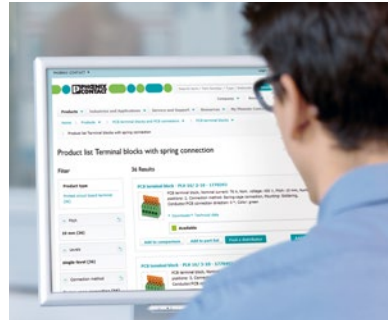
Further information on Phoenix Contact services:

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

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There is a separate detail page for every product



A data sheet is available to download for every item



With our global network, Phoenix Contact is always nearby



Device connection technology can be comprehensively configured



Housing parts and connection technology are easy to configure



Cable and assembly systems can be matched easily



Phoenix Contact provides support from the initial idea right through to series production



Our online sample service is available in a large number of countries



Find the product you want quickly with intuitive filters



Product samples are available with free shipping



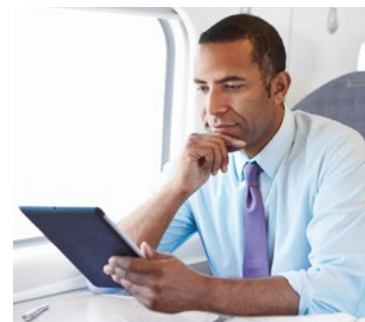
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