

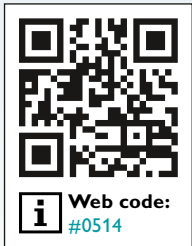


Electronics housings

Product overview 2019/2020

Electronics housings for DIN rail and field applications

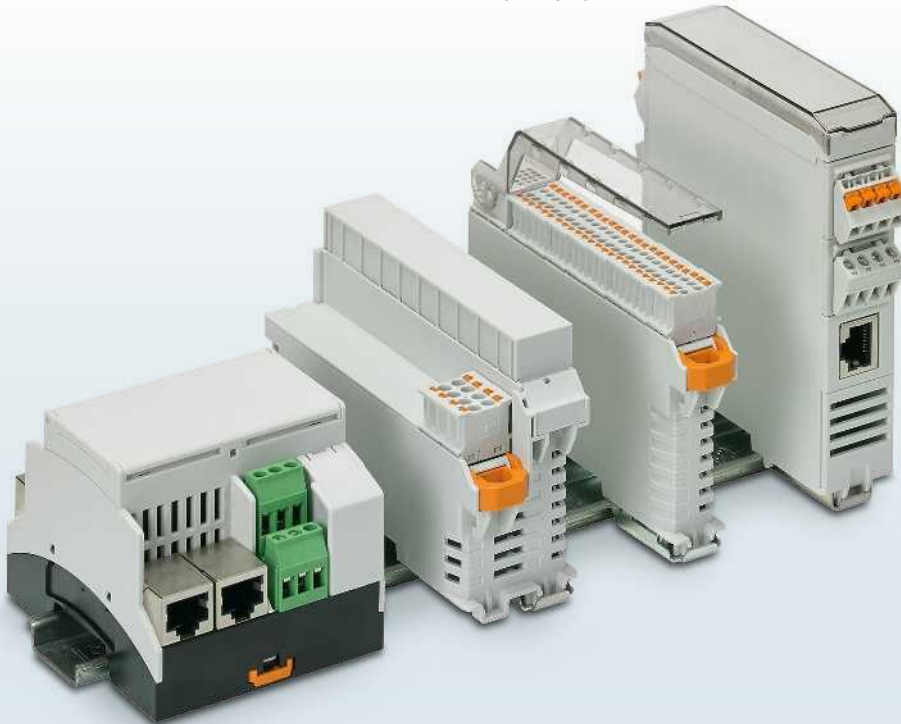
A wide range of options for form, color, and function – this is the central idea behind electronics housing types from Phoenix Contact. Whether on a wall or on a DIN rail, from light gray to sky blue, narrow or wide – you will always find the right housing for your electronics here.



DIN rail housings

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

Further information starting on page 6



HMI components and accessories

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

Further information starting on page 98



Field housings

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

Further information starting on page 70

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Find out more with the web code

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

i Web code: #1234 (example)

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

Configure your electronics housing online in just four easy steps

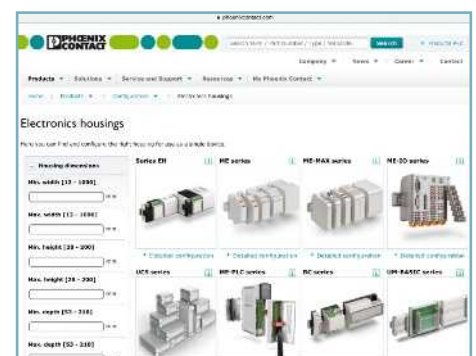
Intelligent combinatorics, interactive component selection, and real-time visualization in 3D: put together your electronics housings or accessories such as light guides, membrane keypads, or displays in just a few steps with the new online configurator. Simply select the desired housing series and size,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



Web code:
#0512

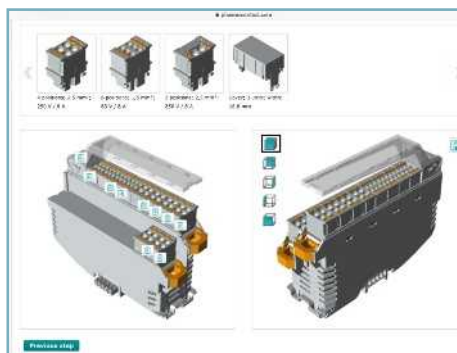
Your advantages

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



Step 1

Select housing range



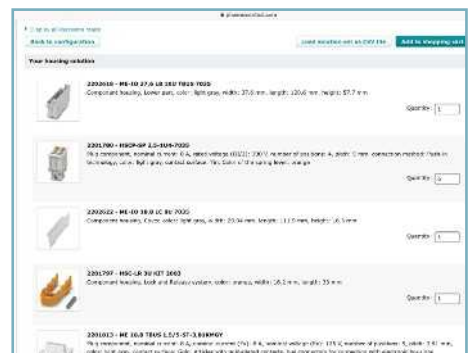
Step 2

Configure housing parts and connection technology



Step 3

Display or download complete module, including PCB shape

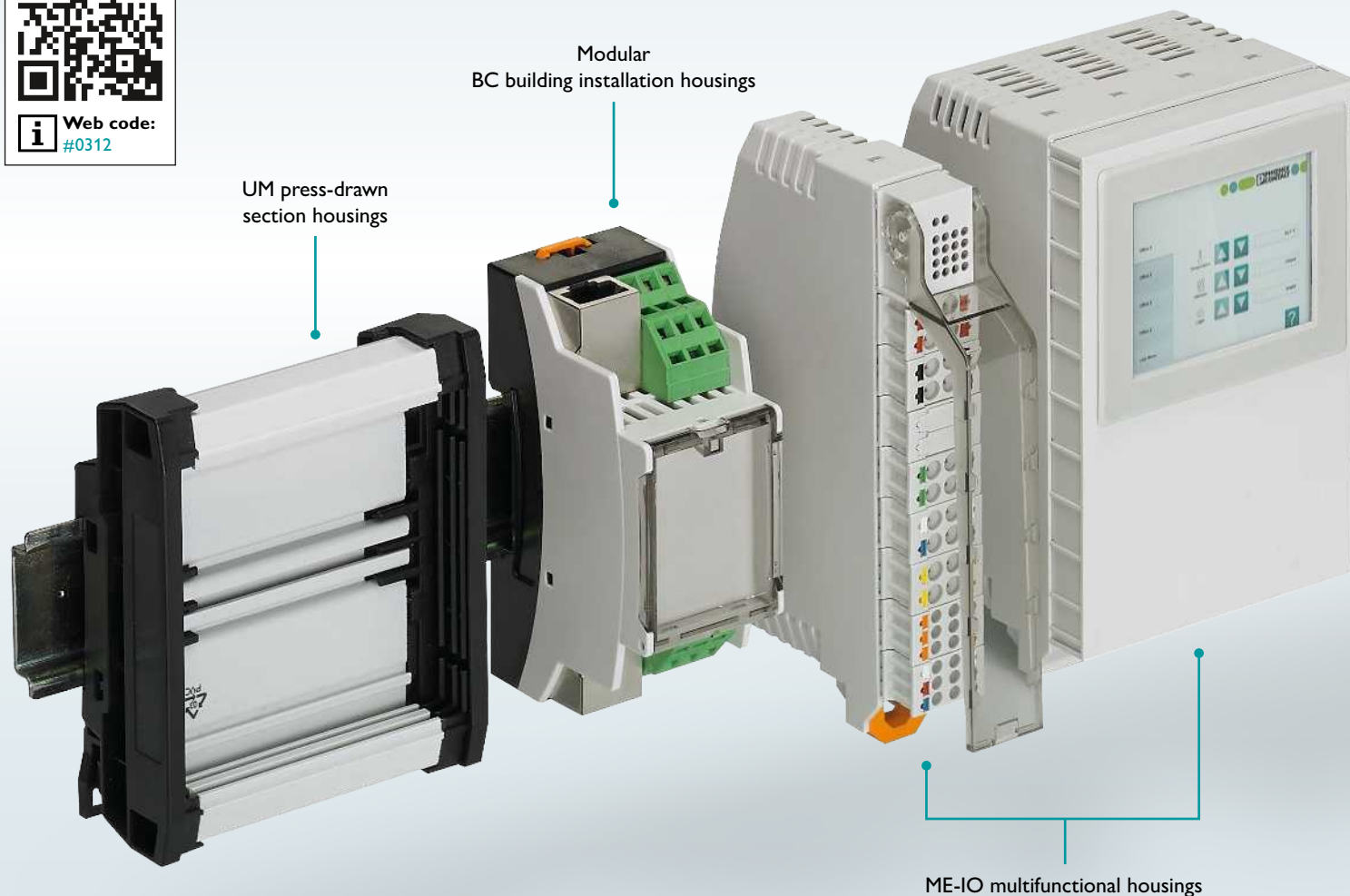
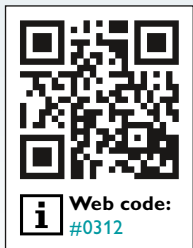


Step 4

Display bill of material and order directly

DIN rail housings

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

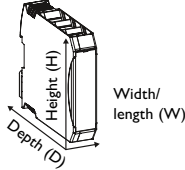




Your advantages

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

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		NS35	NS35	NS35	NS35
Temperature range for operation [°C]		-40 ... +80	-40 ... +105	-40 ... +105	-40 ... +105
Degree of protection per DIN EN 60529		IP20	IP20	IP20	IP20
 Dimensions	Width [mm]	22.5 / 35 / 45 / 52.5 / 67.5 / 70 / 90	20 / 25	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 [mm²]		5600 ... 7200	3500 ... 22000	2000 ... 6600	3400 ... 8500
Power dissipation	Max. dissip. power [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 pos. for 3.5 mm pitch	5 ... 21	5 ... 40	5 ... 40	18 ... 120
	Max. number of pos. for 5.0 mm pitch	4 ... 17	4 ... 32	4 ... 32	8 ... 96
	Max. number of pos. for 7.25 mm and 7.5 mm pitch			3 ... 24	12 ... 72
Bus connectors	Type		DIN rail connectors	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 ²⁾ / 10 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	HB/V0 (UL94)	V0 (UL94)	V0 (UL94)	V0 (UL94)
Grounding (optional)			Functional earth grounding (FE)	Functional earth grounding (FE)	Functional earth grounding (FE)
Sample set		52006670	1047838	52005214	52005224
See page		10	16	22	30

¹⁾ All information pertains to the DIN rail connector (TBUS)

²⁾ All information pertains to the integrated cross connector

³⁾ PBR power connector with PCO connection technology

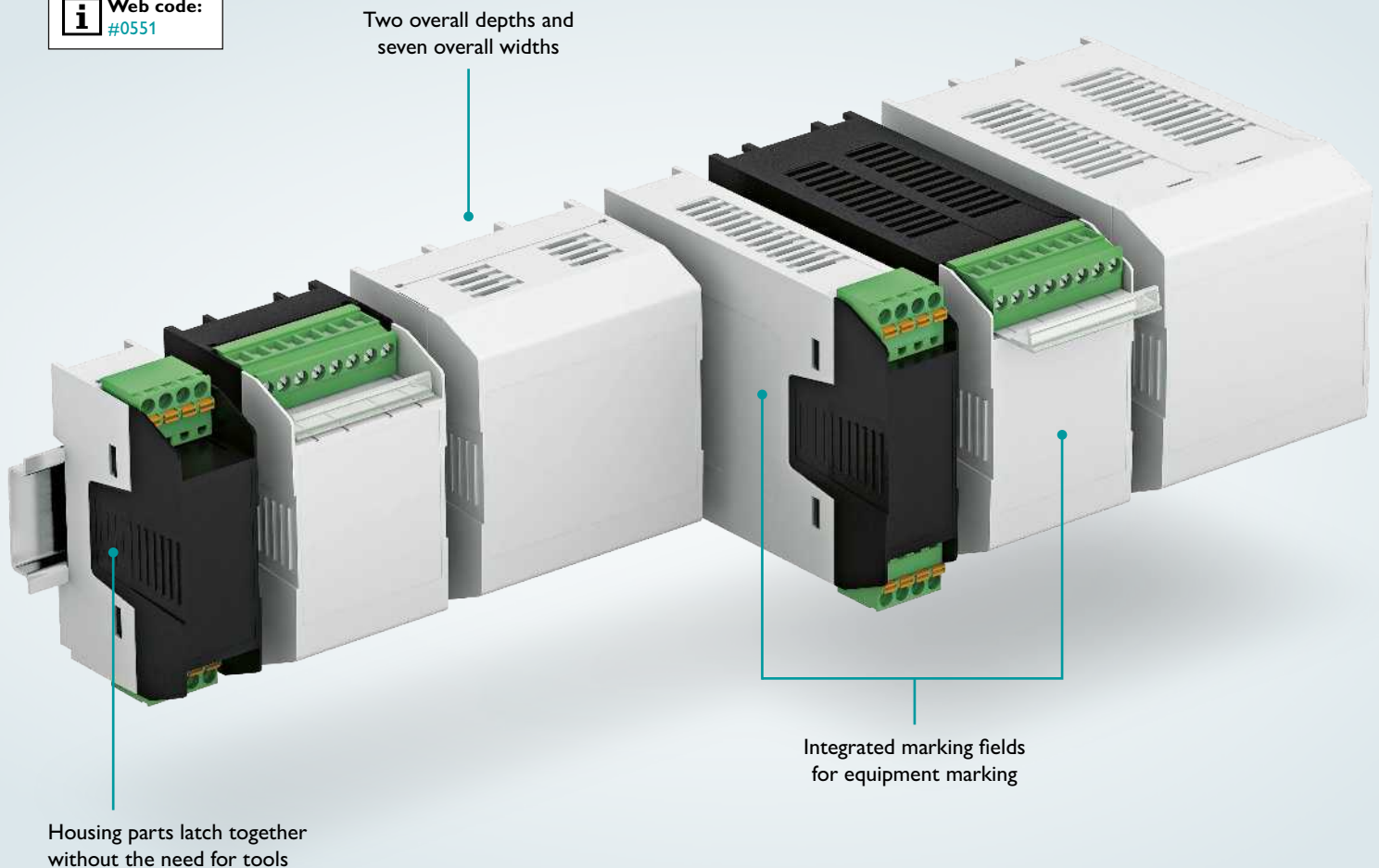
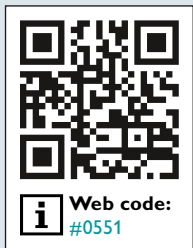
Multifunctional housings		Modular building installation housings		Press-drawn section housings	
					
ME-IO	ME-PLC	BC	RPI-BC	UM-BASIC/UM-PRO	UM-ALU
#0308	#0309	#0311	#0664	#0313	#0315
NS35	NS105 or 2x NS35	NS35	NS35	NS35	NS35
-40 ... +105	-40 ... +105	-40 ... +105	-40 ... +105	-15 ... +50/-40 ... +100	-40 ... +100
IP20	IP20	IP20	IP20	IP00	IP20
18.8/37.6/75.2	40	17.8 (1 HP) to 161.6 (9 HP)	107.6 (6 HP)	Profile length freely selectable	42.5/60/95/130
				30 ... 1000	165/200/235/990
77	159	62.2	62.2	40	33
113/124	180	89.7	89.7	72/108/122 Inner dimensions of the PCB holder	72/100.5 Inner dimensions of the PCB holder
3370 ... 6483	15000	2200 ... 13000	Raspberry Pi boards plus 8200	700 ... 1200/cm	3000 ... 97000/cm
2.8	Approx. 25	2.95 ... 16.95	13.08		
54	Optional configuration	Optional configuration	Optional configuration	Optional configuration	Optional configuration
36	Optional configuration	Optional configuration		Optional configuration	Optional configuration
	Optional configuration	Optional configuration		Optional configuration	Optional configuration
DIN rail connectors	DIN rail connector (only with TS105)	DIN rail connectors	DIN rail connectors	Integrated cross connector	
TBUS8 18,8	ME PLC 40 BUS 10 ⁴⁾ ME PLC 40 BUS 50 ⁵⁾	HBUS	HBUS	Optional configuration	
5 8	10 ⁴⁾ 50 ⁵⁾	16	16	Optional configuration	
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 configuration	
PA (polyamide)	PC (polycarbonate)	PC (polycarbonate)	PC (polycarbonate)/ PA (polyamide)	PVC (polyvinyl chloride)/ reinforced PA (polyamide)	Anodized aluminum (Al Mg Si0.5) Cover: PA (polyamide)
V0 (UL94)	V0 (UL94)	V0 (UL94)	V0 (UL94)	V0 (UL94)	Cover: V0 (UL94)
Functional earth grounding (FE)	Functional earth grounding (FE)			Potential earth grounding (PE)	Potential earth grounding (PE)
52005220	52003927	52005225	52007812	52005309	52002012
38	44	48	56	60/64	66

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

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

EH basic housings for universal applications

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



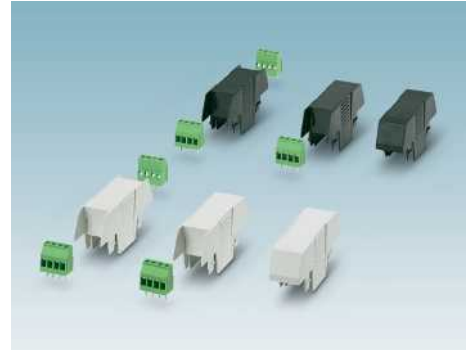
Your advantages



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



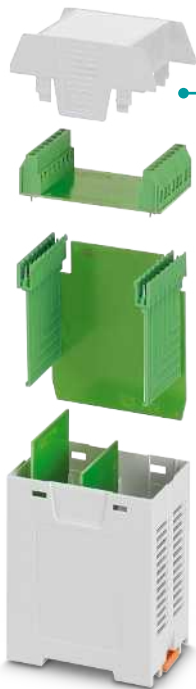
DIN rail or wall mounting for device fastening suited to the applications



Three cover versions for individual PCB connections

Configure your product the way you want ¹⁾

Tall design

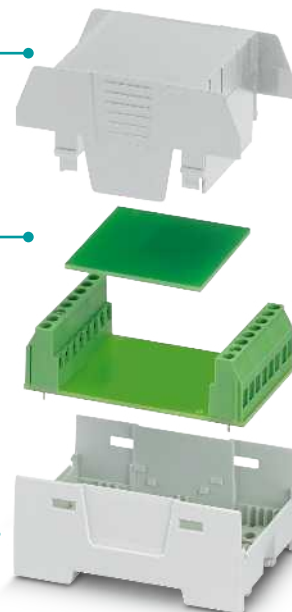


2 Choose the matching upper housing part

3 Select 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

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

i Web code: #0512

Housing color options (RAL color system):

7035 9005

Other colors available on request.

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

¹⁾ The configuration overviews for this product range are to be found on pages 12 – 15.

EH series configuration overview

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

3 Connection technology

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

EH series configuration overview

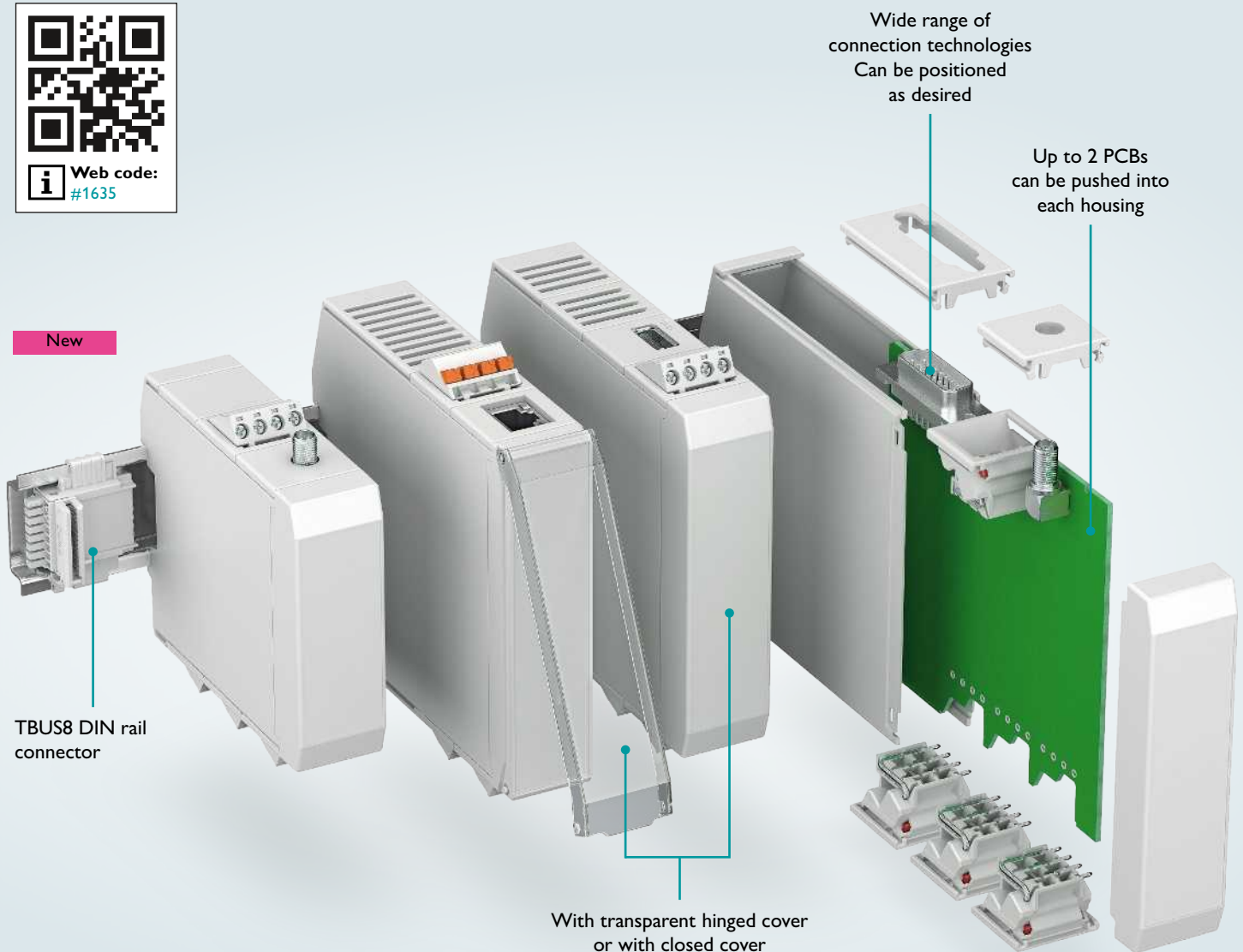
1 Lower housing part					2 Upper housing part					
Lower housing part Design	Color	Housing width	Order No.		One side open		Both sides open		Both sides closed	
										
			Material: ABS	Material: ABS-PC	Material: ABS	Material: ABS-PC	Material: ABS	Material: ABS-PC	Material: ABS	Material: ABS-PC
			Flamm. rating HB	Flamm. rating V0	Flamm. rating HB	Flamm. rating V0	Flamm. rating HB	Flamm. rating V0	Flamm. rating HB	Flamm. rating V0
 Flat design, overall depth (lower part + upper part): 53.5 mm	Light gray (similar to RAL 7035)	22.5 mm	2200665	1071148	2200674	1071151	2201453	1034687	2201653	1074973
		35 mm	2201814	1074877	2201820	1075106	2201826	1074870	2201832	1074866
		45 mm	2200474	1074969	2200789	1074967	2201770	1074966	2201769	1074965
		52.5 mm	2201816	1074838	2201822	1074796	2201829	1074802	2201835	1074794
		67.5 mm	2200519	1074952	2201097	1074949	2201773	1074950	2201774	1074947
		70 mm	2201819	1074753	2201825	1074751	2201830	1074750	2201836	1074747
		90 mm	2200663	1074941	2201282	1074935	2201778	1074934	2201777	1074933
										
 Flat design, overall depth (lower part + upper part): 53.5 mm	Black (similar to RAL 9005)	22.5 mm	2200666	1071149	2201452	1074972	2201456	1074971	2201765	1074970
		35 mm	2201815	1074875	2201821	1074862	2201827	1074857	2201833	1074849
		45 mm	2200492	1074968	2201448	1074964	2201771	1074963	2201766	1074956
		52.5 mm	2201817	1074813	2201823	1074788	2201828	1074755	2201834	1074754
		67.5 mm	2200520	1074951	2201447	1074942	2201772	1074945	2201775	1074946
		70 mm	2201818	1074752	2201824	1074749	2201831	1074748	2201837	1074746
		90 mm	2200664	1074938	2201388	1075103	2201779	1074882	2201776	1074880

3 Connection technology

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

ICS modular housings with variable connection technology

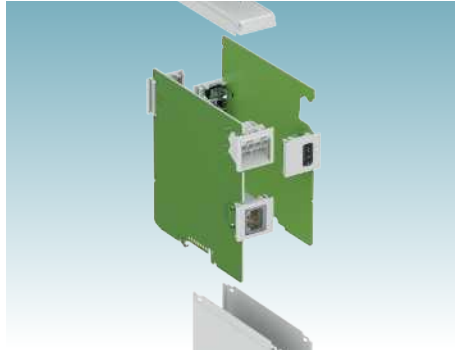
The solutions made possible by the modular ICS housing system are as varied as the requirements for future-oriented automation devices. Take advantage of a housing system with graduated sizes, variable connection technology, and optional eight-position DIN rail connectors.



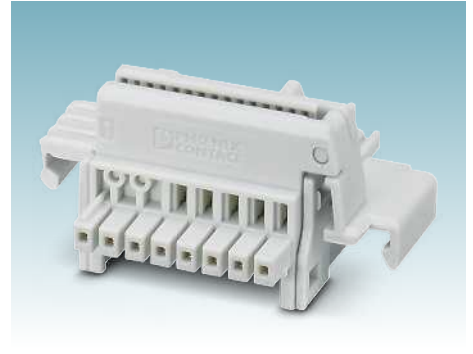
Your advantages



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

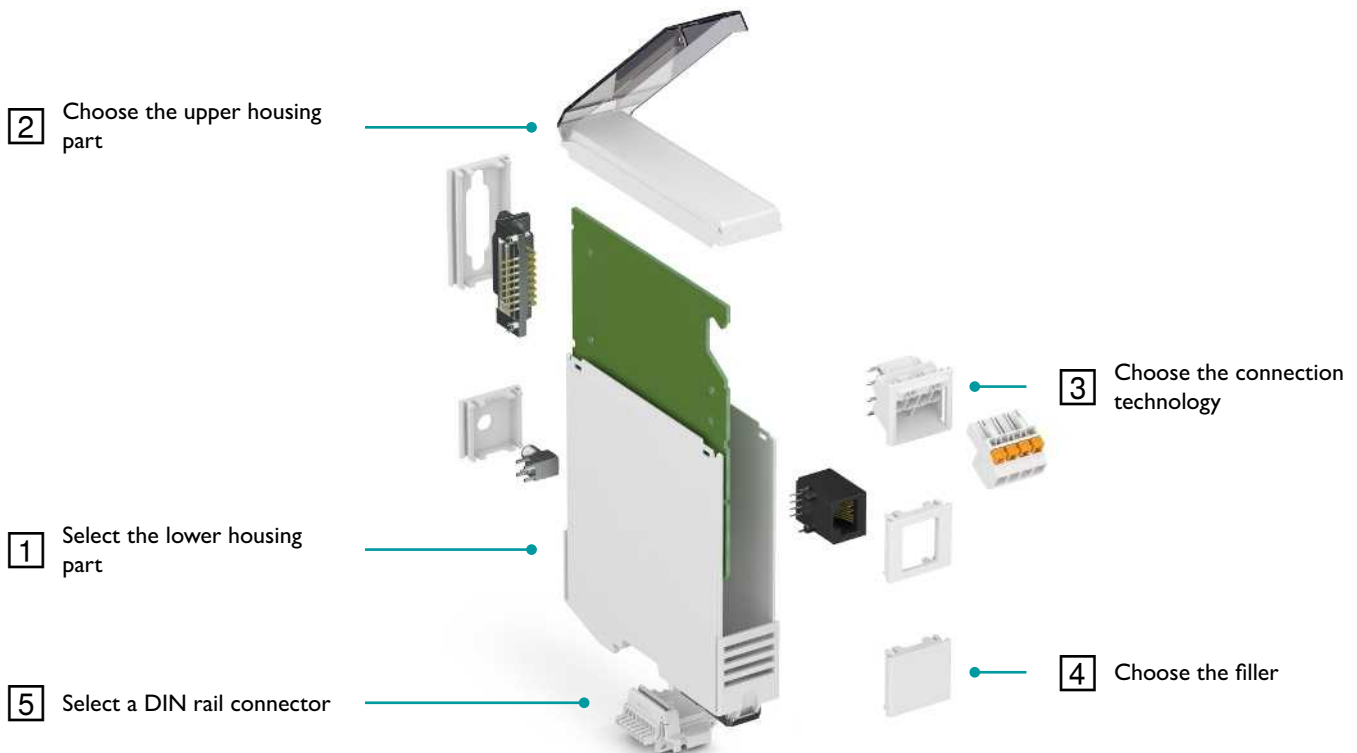


Optimum use of space by fitting up to two PCBs in the housing per basic housing width



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

Configure your product the way you want ¹⁾



Go directly to the online configurator

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

i Web code: [#0512](#)

Housing color options (RAL color system):

7035 9005 5015

Other colors available on request.

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

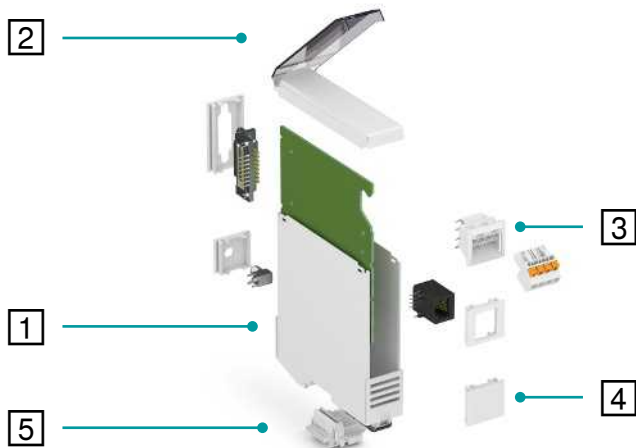
¹⁾ The configuration overviews for this product range are to be found on pages 18 – 19.

ICS series configuration overview

Housing				1 Lower housing part		
(Lower housing part with upper housing part)						
	Width	Height	Depth			
	20 mm	100 mm	110 mm	ICS20-B100x98-V-7035	2203878	98 mm
	25 mm	77 mm	87 mm	ICS25-B77x75-O-7035	2203876	75 mm
	25 mm	100 mm	110 mm	ICS25-B100x98-V-7035	2203881	98 mm
	25 mm	100 mm	132 mm	ICS25-B100x120-V-7035	2203884	120 mm
	25 mm	122 mm	110 mm	ICS25-B122x98-V-7035	2203885	98 mm

Housing			3 Connection technology							
(Lower housing part with upper housing part)			Headers							
										
Width	Height	Depth	3-pos., left / 5 mm		3-pos., right / 5 mm		4-pos., left / 5 mm		4-pos., right / 5 mm	
			Type / Order No.		Type / Order No.		Type / Order No.		Type / Order No.	
20 mm	100 mm	110 mm	ICC20-H/3L5,0-7035	2203900	ICC20-H/3R5,0-7035	2203901				
25 mm	77 mm	87 mm								
25 mm	100 mm	110 mm								
25 mm	100 mm	132 mm					ICC25-H/4L5,0-7035	2203902	ICC25-H/4R5,0-7035	2203903
25 mm	122 mm	110 mm								

Configure your product the way you want



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i Web code: #0512

2 Upper housing part

Closed			With transparent hinged cover		
					
Type	Order No.	Depth of upper housing part	Type	Order No.	Depth of upper housing part
ICS20-C100x12-7035	2203879	12 mm	ICS20-TL100x12-7035	2203880	12 mm
ICS25-C77x12-7035	1019703		ICS25-TL77x12-7035	1019570	
ICS25-C100x12-7035	2203882		ICS25-TL100x12-7035	2203883	
ICS25-C100x12-7035	2203882		ICS25-TL100x12-7035	2203883	
ICS25-C122x12-7035	2203886		ICS25-TL122x12-7035	2203887	

Connectors							
With Push-in				With screw connection			
							
3-pos., Push-in		4-pos., Push-in		3-pos., screw connection		4-pos., screw connection	
Type / Order No.		Type / Order No.		Type / Order No.		Type / Order No.	
PSPT 2,5/ 3 ST KMGY	2202345			MSTBT 2,5 HC/3-STP	2200333		
		PSPT 2,5/ 4 ST KMGY	2202344			MSTBT 2,5 HC/ 4-STP	2200332

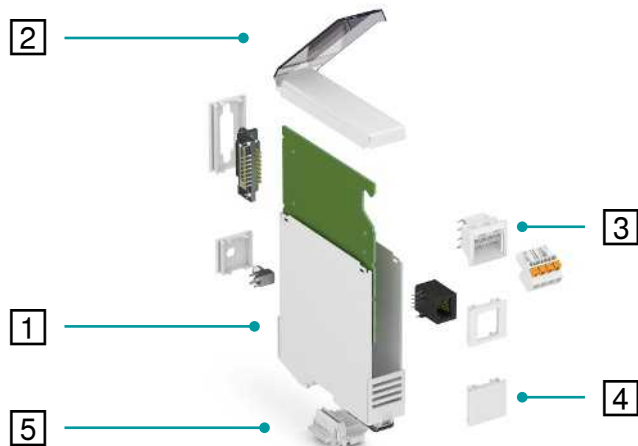
ICS series configuration overview

Housing				4 Filler							
(Lower housing part with upper housing part)				Filler							
				Without vents				With vents			
											
				Depth 22.5 mm		Depth 45 mm		Depth 22.5 mm		Depth 45 mm	
				Type / Order No.		Type / Order No.		Type / Order No.		Type / Order No.	
	20 mm	100 mm	110 mm	ICS20-F22S-7035	2203888	ICS20-F45S-7035	2203889	ICS20-F22V-7035	1079494	ICS20-F45V-7035	1079493
	25 mm	77 mm	87 mm	ICS25-F22S-7035	2203890	ICS25-F45S-7035	2203891	ICS25-F22V-7035	1079495	ICS25-F45V-7035	1079492
	25 mm	100 mm	110 mm								
	25 mm	100 mm	132 mm								
	25 mm	122 mm	110 mm								

Further fillers with function cutout available on request

Housing				5 DIN rail connector, 8-pos.			
(Lower housing part with upper housing part)				TBUS8, 8 parallel contacts, 2.54 mm pitch		TBUS8, 7 parallel contacts, 1 series contact, 2.54 mm pitch	
							
	W	H	D	Type / Order No.		Type / Order No.	
	20 mm	100 mm	110 mm	TBUS8-20,0-PPPPPPPP-7035	2202889	TBUS8-20,0-PPPPPPPS-7035	2202894
	25 mm	77 mm	87 mm	TBUS8-25,0-PPPPPPPP-7035	2202891	TBUS8-25,0-PPPPPPPS-7035	2202890
	25 mm	100 mm	110 mm				
	25 mm	100 mm	132 mm				
	25 mm	122 mm	110 mm				

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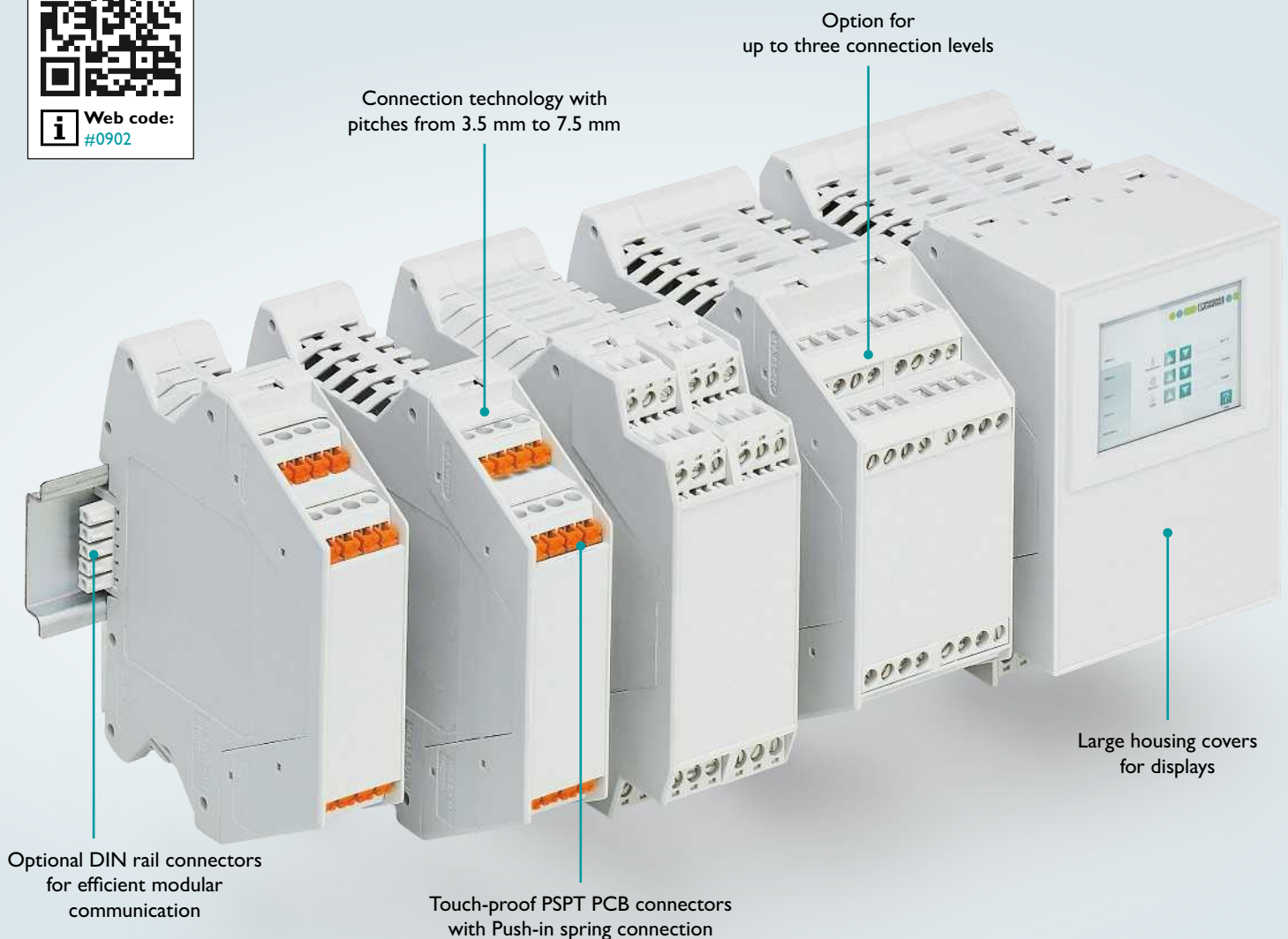
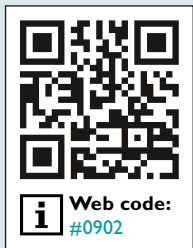
i Web code: #0512

Filler with function cutout							
For RJ45		For USB		For antenna		For D-SUB	
							
Depth 22.5 mm		Depth 22.5 mm		Depth 22.5 mm		Depth 45 mm	
Type / Order No.		Type / Order No.		Type / Order No.		Type / Order No.	
		ICS20-F22U-7035	1053051	ICS20-F22A-7035	2203892		
ICS25-F22J-7035	2203895	ICS25-F22U-7035	1053046	ICS25-F22A-7035	2203894	ICS25-F45D15-7035	2203896

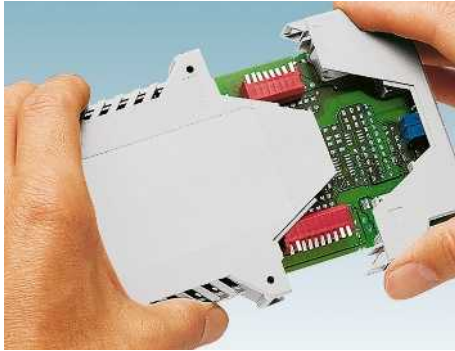
TBUS8, 6 parallel contacts, 2 series contacts, 2.54 mm pitch	
Type / Order No.	
TBUS8-20,0-PPPPPPSS-7035	2202892
TBUS8-25,0-PPPPPPSS-7035	2202895

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

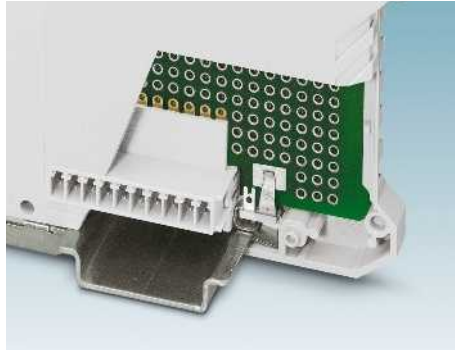
Modular electronics housings from the ME series transform assembled PCBs into easy-to-install electronics modules. Variable connection technology, bus connectors, and modularity ensure the right device design for every application. Diverse adaptation options expand the range of individual housing solutions.



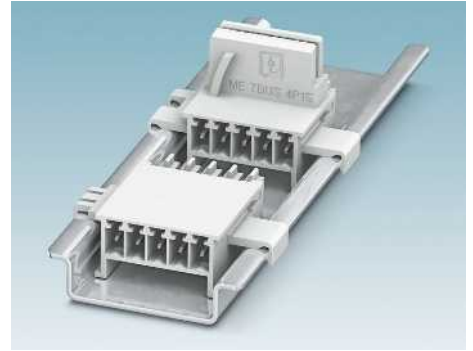
Your advantages



Cup principle for short installation times



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



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

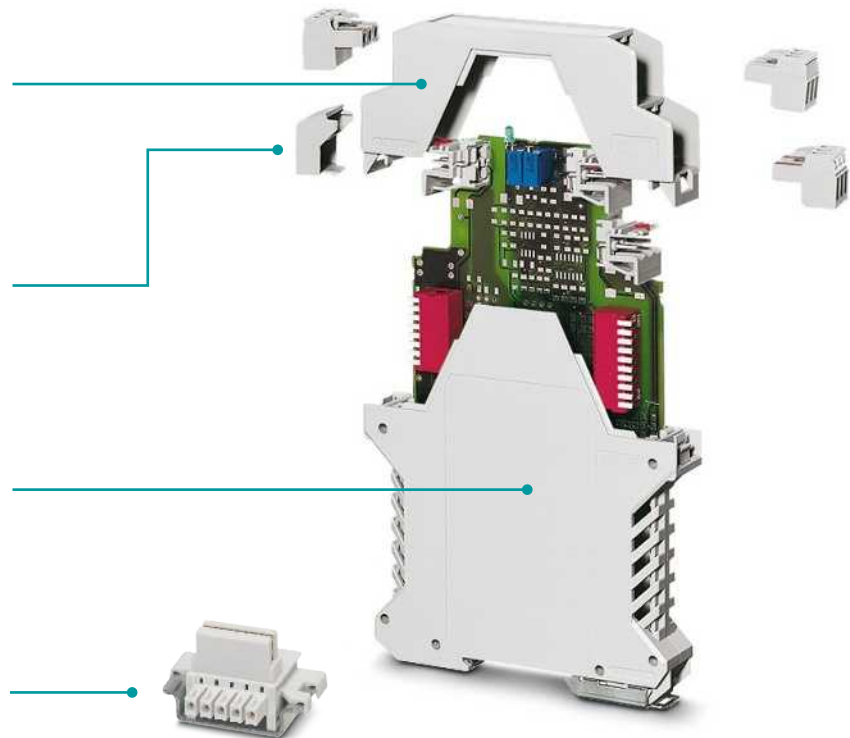
Configure your product the way you want ¹⁾

3 Choose the matching upper housing part

4 Select connection technology²⁾ or filler plug (pp. 24 – 27)

1 Select the lower housing part

2 Add the DIN rail bus as an option



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i Web code: #0512

Housing color options (RAL color system):

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

Other colors available on request.

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

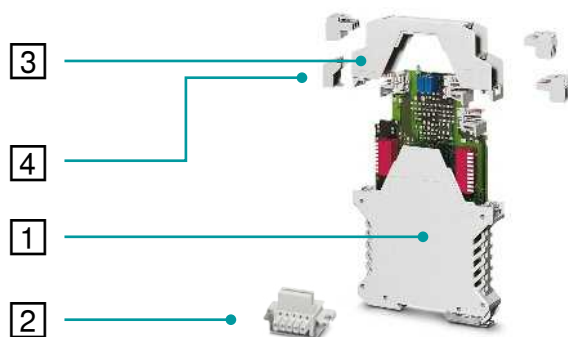
¹⁾ The configuration overviews for this product range are to be found on pages 24 – 29.

²⁾ Additionally, connector locking mechanisms are available for FMC, MC, and MSTBO connection technology (pp. 24 – 25)

ME series configuration overview

Housing		1 Lower housing part					
		Without bus connectors	With integrated bus connector				For DIN rail connector
			5 parallel pos.	5 parallel pos., 2 series pos.	10 parallel pos.	10 parallel pos., 2 series pos.	5 pos.
							
	Width	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	2201852	2201856	2707482	2890108	2869524
	35 mm	2915148	2201853	2201857	2854050	2201860	2914819
	45 mm	2709655	2201854	2201858	2854063	2695536	2869511
	67.5 mm	2201238		2200537	2200539	2200541	2200544
	90 mm	2200279		2200538	2200540	2200543	2200545
 Flat design Overall depth 106 mm ¹⁾	22.5 mm	2709781					2914835
 Ultra-flat design Overall depth 92 mm ¹⁾	22.5 mm	2201861					

Configure your product the way you want



Go directly to the online configurator

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

i Web code: #0512

2 DIN rail connectors

3.81 mm pitch

5 parallel pos.

4 parallel pos.,
1 series pos.

Adapter,
5 parallel pos.



ME ... TBUS ...

ME ... TBUS ...
4P1S

ME ... TBUS
ADAPTER

3 Upper housing part

PCB terminal blocks

Connectors with header

Screw
connection

Spring
connection

Single-level

Double-level

Double-level

Triple-level



ME ... OTU-
MKDSO

ME ... OT-
FKDSO

ME ... OT-
1MSTBO

ME ... OT-
MSTBO

ME... OTP-
MSTBO-PS

ME ... OT-
3MSTBO

2278869

2200321

2854775

2278940

2200322

2853747

2279253

2278953

2200323

2914877

2907761

2279282

2914880

2 x 2278940

2 x 2200322

2914864

2 x 2278953

2200327

2709299

2854429

2 x 2914880

3 x 2278953

3 x 2200323

2200522⁴⁾

3 x 2907761

3 x 2914880

4 x 2278953

2 x 2200327

2200523⁴⁾

2 x 2854429

4 x 2914880

2713645

2201731

2201757

2713722

2201732

2201756

2713645²⁾

2201731²⁾

2201757²⁾

2713722²⁾

2201732²⁾

2201756²⁾

2713722

2201732

2201756

2713722

2201732

2201756

22788953

2200323

2914877

2907761

2279282

2914880

2278953

2200323

2914877

2907761

2279282

2914880

¹⁾ Dimension of housing incl. single or double-level upper part

²⁾ Combination of DIN rail connectors and adapters freely selectable, taking into account the required quantity relative to the housing width.

³⁾ FE = Functional earth ground contact

Note: The lower housing parts shown here are also available as an option without ventilation slots. The lower housing parts shown here are also available in other colors.

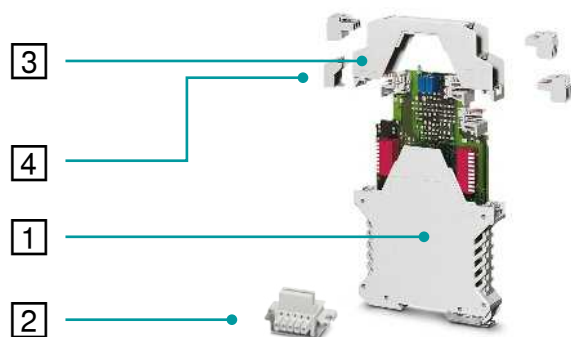
⁴⁾ Upper housing part suitable for integration of display frames 2203537, 2203538, 2203539

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-3MST-BO	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						
		Screw	Plug snap	Push-in	Plug snap	Push-in
Wave soldering						
Left	Right					
						
MCO 1,5/ ... G1 ... -3,5		MC	ME PS ... MC	FMC	ME PS ... FMC	FK-MCP
2278380	2278351	1769087		1773581		1773604
2278319	2278322	1769061				
2278364	2278377	1769074		1773578		1773594
2278380	2278351	1769087		1773581		1773604
2278364	2278377	1769074		1773578		1773594
2278380	2278351	1769087		1773581		1773604
2278380	2278351	1769087		1773581		1773604
		1769087	2279842	1773581	2279949	
		1769087	2279745	1773581	2279648	

Configure your product the way you want



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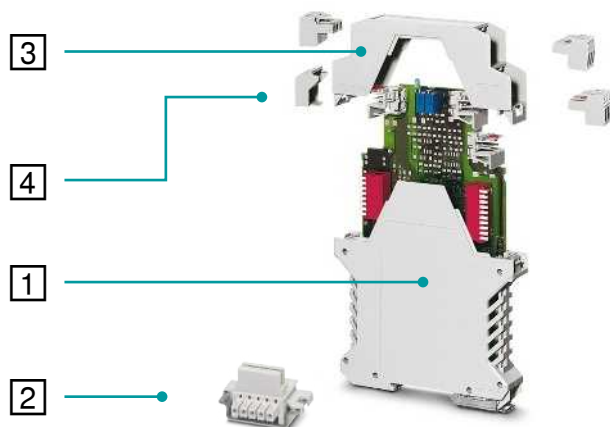
i Web code: #0512

Headers, connectors, and connector locking mechanisms												Filler plugs
5 mm pitch									7.25 mm pitch			
Wave soldering		Reflow soldering (THR)		Wave soldering		Push-in	Screw	Plug snap	Reflow soldering (THR)		Screw	
Left	Right	Left	Right	Left	Right				Left	Right		
												
MSTBO 2,5/ ... G1 ...		MSTBO 2,5/ ... -G1 ... THR		MSTBO 2,5/ ... -G1P ...		PSPT 2,5/ ...	MSTBT ... STP	ME PS ... MSTBT	GMSTBO 2,5 HV/ ... -G ... THR		GMSTBT 2,5 HV	ME B- ...
2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332		2199663	2199566	2199553	2907965
2854788	2854791	2200251	2200252	2200330	2200331	2202346	2200334					2854801
2853750	2853763	2915216	2915229	2200328	2200329	2202345	2200333		2199867	2199760	2199757	2853776
2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332		2199663	2199566	2199553	2907965
2853750	2853763	2915216	2915229	2200328	2200329	2202345	2200333		2199867	2199760	2199757	2853776
2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332		2199663	2199566	2199553	2907965
2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332		2199663	2199566	2199553	2 x 2279787
							2200332	2279062				

ME series configuration overview: PCB terminal blocks

3 Upper housing part				4 Connection technology			
	Width	Max. number of positions		PCB terminal blocks			
		Pitch		3.5 mm pitch		5 mm pitch	
		3.5 mm	5 mm	Screw connection			
				Left	Right	Left	Right
							
			MKDSO 1,5/...-3,5		MKDSO 2,5/...		
 ME...OTU-MKDSO	12.5 mm	12	8	2278445	2278458	2915261	2915258
	17.5 mm	16	12	2278432	2278429	2854102	2854092
	22.5 mm	20	16	2278393	2278416	2908485	2908472
	45 mm	40	32	2278393	2278416	2908485	2908472
 ME...OT-FKDSO	12.5 mm		8				
	17.5 mm		12				
	22.5 mm		16				
	45 mm		32				

Configure your product the way you want



Go directly to the online configurator

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

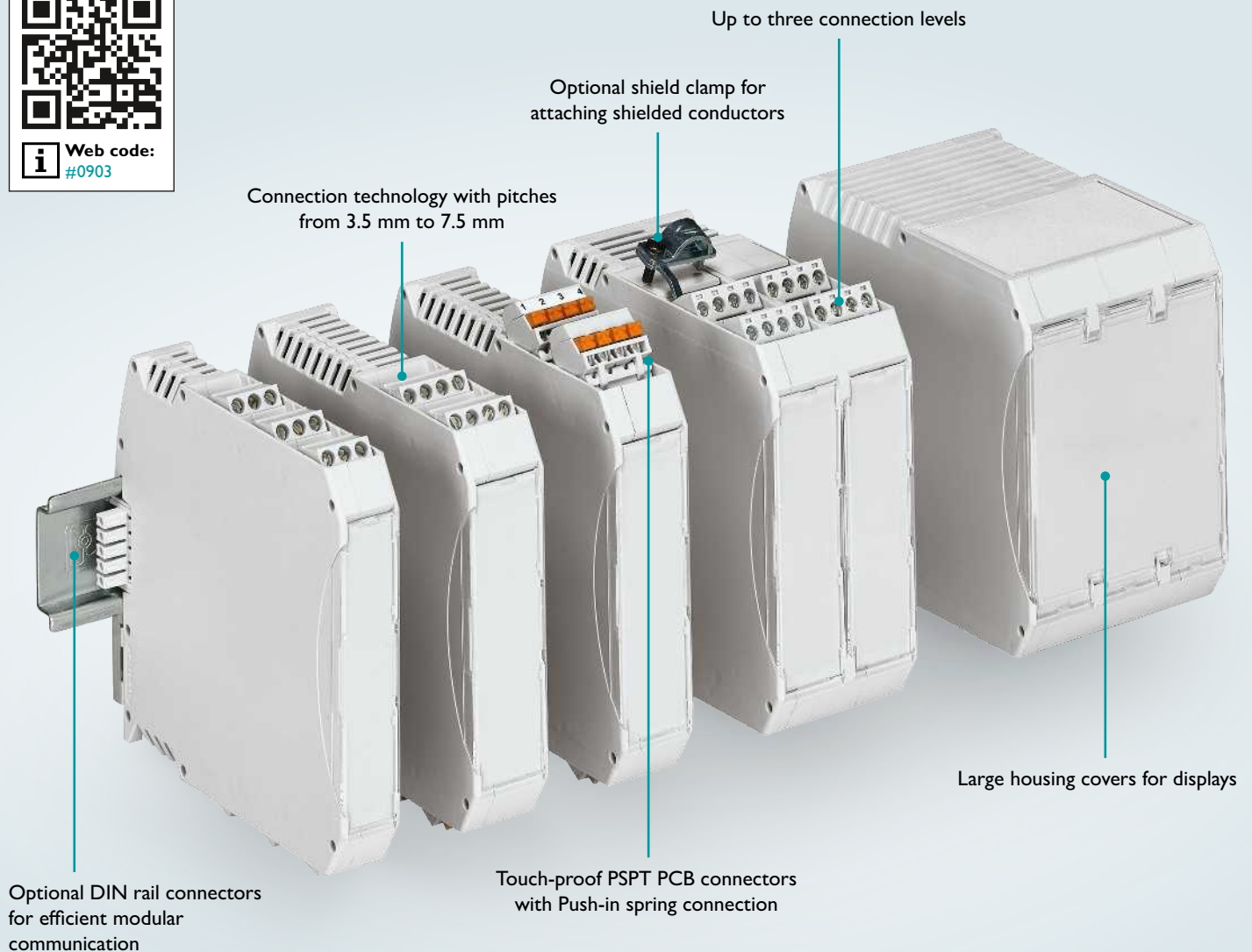
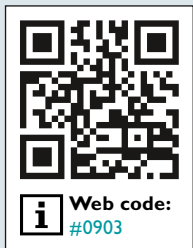
i Web code: #0512

¹⁾ Connector locking mechanisms are also available for FMC, MC, and MSTBO connection technology (pp. 24 – 25).

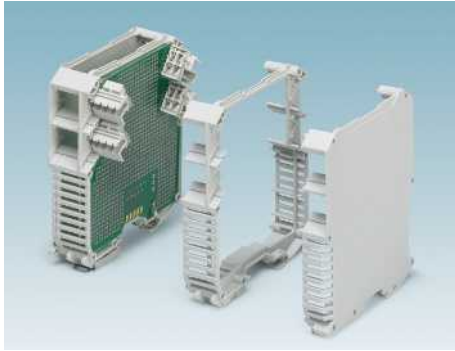
		Filler plugs
5 mm pitch		
Push-in spring connection		
Left	Right	
		
FKDSO 2,5/...		ME B- ...
		2201862
		2854115
		2908498
		2908498
2200315	2200316	2200565
2200318	2200317	2200566
2200319	2200320	2200567
2200319	2200320	2200567

ME-MAX series modular housings in flexible modular design

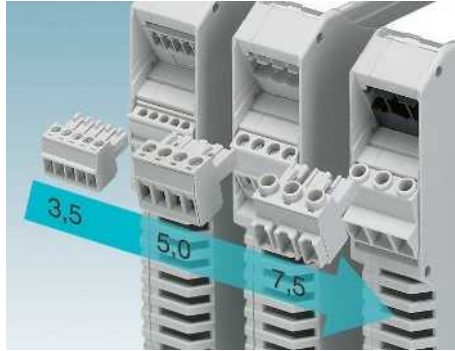
Modular, functional, and design-oriented ME-MAX electronics housings for modern industrial electronics: variable connection technology, bus connectors, and modularity ensure the right device design for every application.



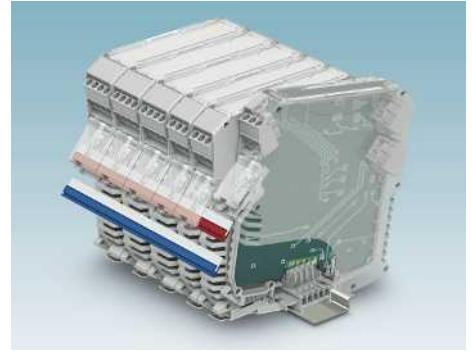
Your advantages



Modular housing design enables variable electronics solutions.



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



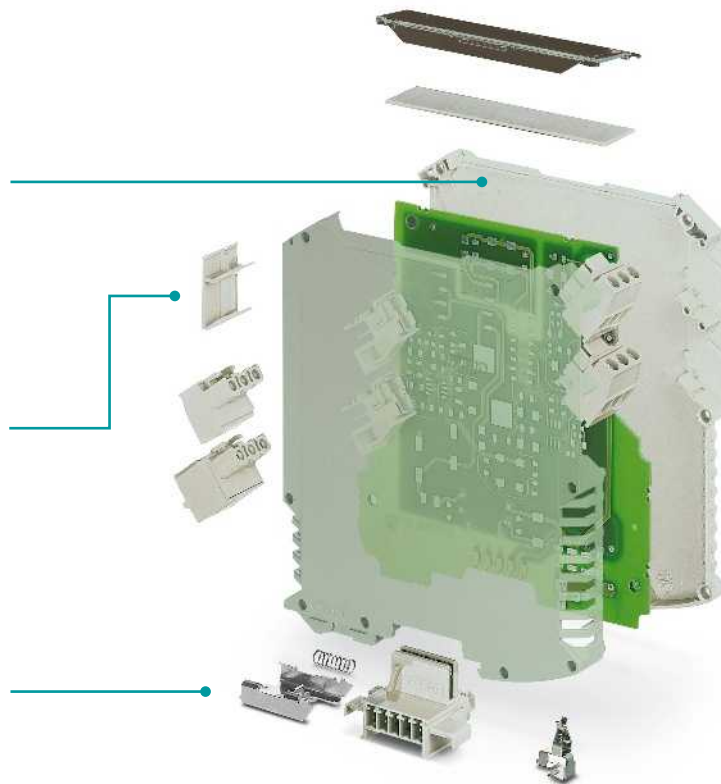
TBUS DIN rail cross connectors and PCO power connectors for module-to-module communication

Configure your product the way you want ¹⁾

1 Select the housing

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

2 Add DIN rail bus and power connectors as an option



Go directly to the online configurator

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

i Web code: **#0512**

Housing color options (RAL color system):

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

Other colors available on request.

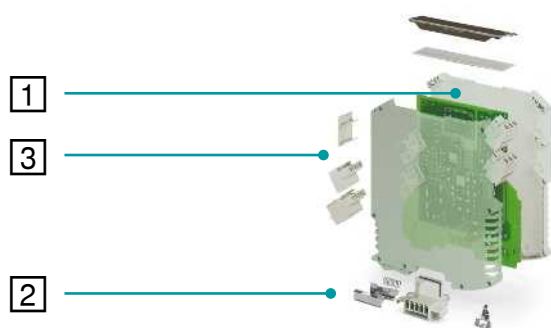
Test the ME-MAX series and contact your sales contact person (sample set: 52005224).

¹⁾ The configuration overviews for this product range are to be found on pages 32 – 37.

ME-MAX series configuration overview

1 Housing													
Housing	Housing width	Order No.	Max. number of pos.			Order No.	Max. number of pos.			Order No.	Max. number of pos.		
			Pitch				Pitch				Pitch		
			3.5 mm	5 mm	7.25 mm 7.5 mm		3.5 mm	5 mm	7.25 mm 7.5 mm		3.5 mm	5 mm	7.25 mm 7.5 mm
													
			ME MAX ... 3-3			ME MAX ... 2-2			ME MAX ... U-U1				
 Tall design (standard) Overall depth 114.5 mm	6.2 mm	2869634 ¹⁾ 2869647 ¹⁾	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, with ²⁾ 90 mm, 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				

Configure your product the way you want



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i Web code: #0512

				2 DIN rail connectors			3 Power connectors up to 42 A			
Order No.	Max. number of pos.			3.81 mm pitch	3.81 mm pitch	3.81 mm pitch	Left	Cross connector		
	Pitch			5 parallel positions	4 parallel pos., 1 series pos.	Adapter, 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 housings of the ME-MAX series can be equipped with a functional earth ground contact. Two versions are available:

FE contact (order number [2278076](#)); FE contact with soldering lug (order number [2908294](#))

¹⁾ ME-MAX 6,2 has four connection levels

²⁾ With = with ventilation slots, without = without ventilation slots

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

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

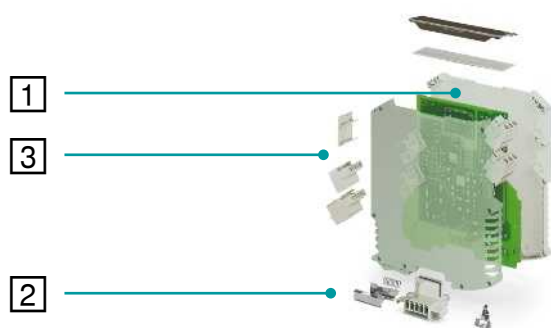
⁵⁾ Combination of DIN rail connectors and adapters freely selectable, taking into account the required quantity relative to the housing width.

⁶⁾ Note: A ME-MAX can only be swung in together with a PCO on the DIN rail if it is the following tall model: ME-MAX ... 2-2.

ME-MAX series configuration overview: PCB connectors

1 Housing						2 Connection technology					
Housing	Housing width	Order No.				Max. number of positions for ME MAX ... 3-3			3.5 mm pitch		
						Connection technology			Wave soldering		Screw
						Manufacturing process			Wave soldering		
						Pitch					
						3.5 mm	5 mm	7.25 mm 7.5 mm	Left	Right	
											
		ME MAX ... 3-3	ME MAX ... 2-2	ME MAX ... U-U1	ME MAX ... 3-U1				MCO 1,5/ ... G1 ... -3,5	MC	
 Tall design (standard) Overall depth 114.5 mm	6.2 mm	2869634 ¹⁾ 2869647 ²⁾				8					
	12.5 mm, w/ ³⁾ 12.5 mm, w/o ³⁾	2279020 2279017				18	12		2278319	2278322	1769061
	17.5 mm, w/ ³⁾ 17.5 mm, w/o ³⁾	2713612 2713531	2713599 2713609	2713641 2713515	2201536 2201537	24	18	12	2278364	2278377	1769074
	22.5 mm, w/ ³⁾ 22.5 mm, w/o ³⁾	2713939 2713942	2713625 2713638	2713476 2713489	2201538 2201539	30	24	18	2278380	2278351	1769087
	35 mm, w/ ³⁾ 35 mm, w/o ³⁾	2713696 2713544	2713670 2713683	2713667 2713528		48	36	24	2278364	2278377	1769074
	45 mm, w/ ³⁾ 45 mm, w/o ³⁾	2713913 2713926	2713706 2713719	2713492 2713502	2201682 2201683	60	48	36	2278380	2278351	1769087
	67.5 mm, w/ ³⁾ 67.5 mm, w/o ³⁾	2200526 2200527	2200524 2200525	2200547 2200528		90	72	54		2278351	
	90 mm, w/ ³⁾ 90 mm, w/o ³⁾	2200531 2200532	2200529 2200530	2200546 2200533		120	96	72		2278351	
	22.5 mm	2869388				30	24	18		2278351	
	45 mm	2869391				60	48	36		2278351	
 Flat design Overall depth 92 mm	17.5 mm		2901369			16	12	8	2278364	2278377	1769074
	22.5 mm		2869362			20	16	12	2278380	2278351	1769087
	45 mm		2869375			40	32	24			

Configure your product the way you want



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i Web code: #0512

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.

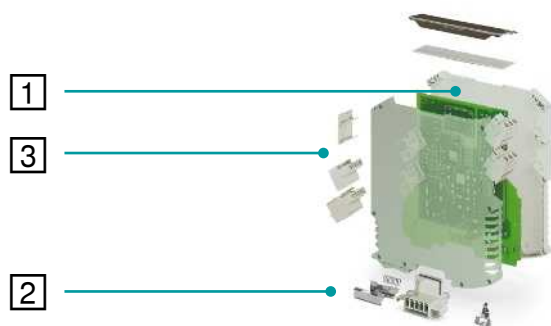
³⁾ w/ = with ventilation slots, w/o = without ventilation slots

Headers and connectors														Filler plugs
		5 mm pitch								7.25 mm pitch				
Push-in	Push-in							Push-in	Screw					
		Wave soldering		Reflow soldering (THR)		Wave soldering				Reflow soldering (THR)				
		Left	Right	Left	Right	Left	Right			Left	Right			
														
FMC	FK-MCP	MSTBO 2,5/ ... G1 ...		MSTBO 2,5/ ... -G1 ... THR ...		MSTBO 2,5/ ... - G1P ...		PSPT 2,5/ ...	MSTBT ... STP	GMSTBO 2,5 HV/ ... -G ... THR ...		GMSTBT 2,5 HV	ME MAX B- ...	
		2854788	2854791	2200251	2200252	2200330	2200331	2202346	2200334				2914660	
1773578	1773594	2853750	2853763	2915216	2915229	2200328	2200329	2202345	2200333	2199867	2199760	2199757	2706959	
1773581	1773604	2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332	2199663	2199566	2199553	2707929	
1773578	1773594	2853750	2853763	2915216	2915229	2200328	2200329	2202345	2200333	2199867	2199760	2199757	2706959	
1773581	1773604	2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332	2199663	2199566	2199553	2707929	
1773578	1773594	2853750	2853763	2915216	2915229	2200328	2200329	2202345	2200333	2199867	2199760	2199757	2706959	
1773581	1773604	2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332	2199663	2199566	2199553	2707929	

ME-MAX series configuration overview: PCB terminal blocks

1 Housing						2 Connection technology	
Housing	Housing width	Order No.				3.5 mm pitch	
						Screw connection technology	
						Left	Right
							
		ME MAX ... 3-3	ME MAX ... 2-2	ME MAX ... U-U1	ME MAX ... 3-U1	MKDSO 1,5	
 Tall design (standard) Overall depth 114.5 mm	6.2 mm	2869634 ¹⁾ 2869647 ²⁾					
	12.5 mm, w/ ³⁾ 12.5 mm, w/o ³⁾	2279020 2279017				2278445	2278458
	17.5 mm, w/ ³⁾ 17.5 mm, w/o ³⁾	2713612 2713531	2713599 2713609	2713641 2713515	2201536 2201537	2278432	2278429
	22.5 mm, w/ ³⁾ 22.5 mm, w/o ³⁾	2713939 2713942	2713625 2713638	2713476 2713489	2201538 2201539	2278393	2278416
	35 mm, w/ ³⁾ 35 mm, w/o ³⁾	2713696 2713544	2713670 2713683	2713667 2713528		2278432	2278429
	45 mm, w/ ³⁾ 45 mm, w/o ³⁾	2713913 2713926	2713706 2713719	2713492 2713502	2201682 2201683		
	67.5 mm, w/ ³⁾ 67.5 mm, w/o ³⁾	2200526 2200527	2200524 2200525	2200547 2200528			
	90 mm, w/ ³⁾ 90 mm, w/o ³⁾	2200531 2200532	2200529 2200530	2200546 2200533			
 Flat design Overall depth 92 mm	22.5 mm	2869388				2278393	2278416
	45 mm	2869391					
 Ultra-flat design Overall depth 70.4 mm	17.5 mm		2901369			2278432	2278429
	22.5 mm		2869362				
	45 mm		2869375			2278393	2278416

Configure your product the way you want



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i Web code: #0512

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

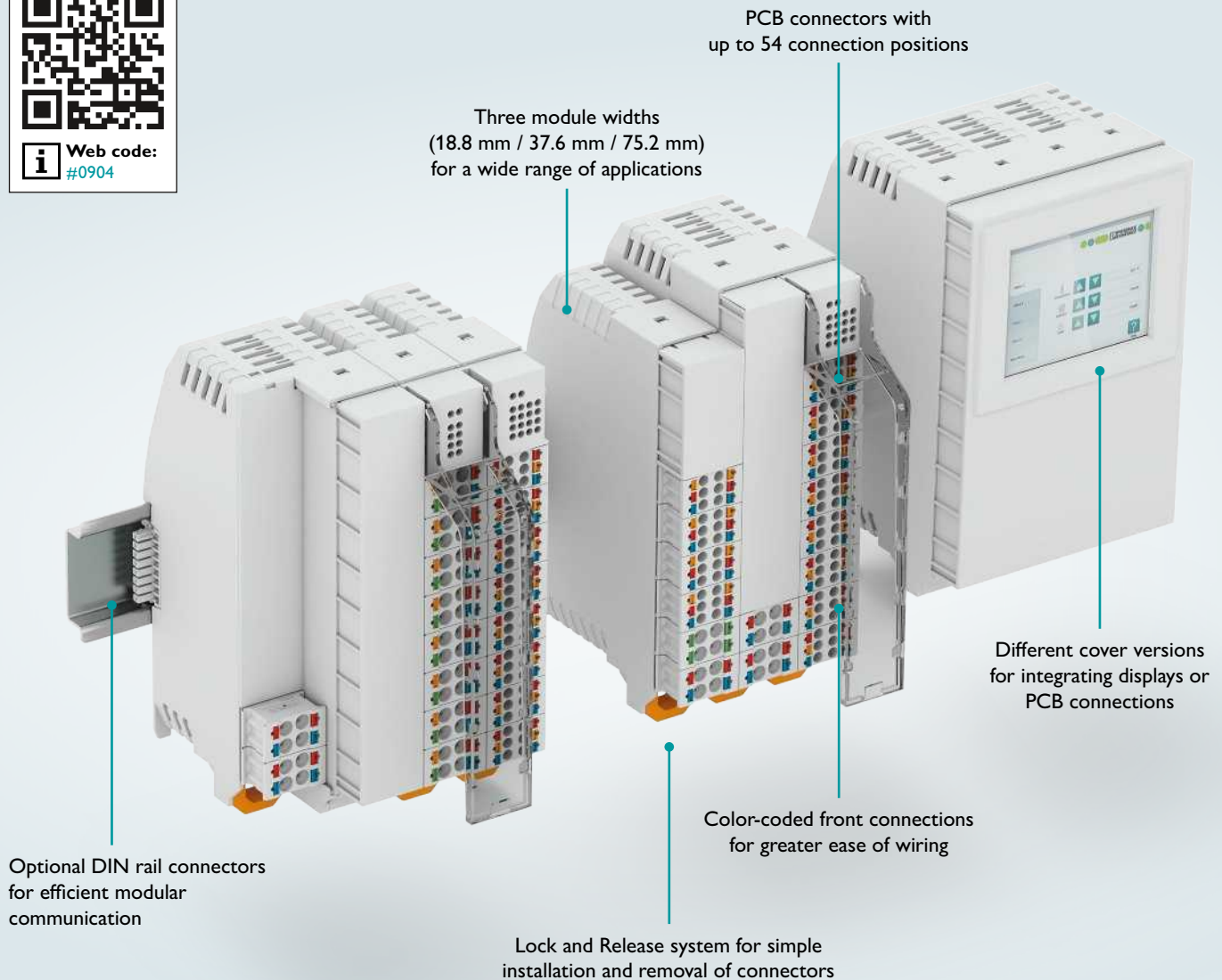
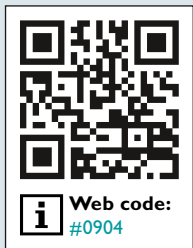
²⁾ ME MAX 6,2 SP ... has four connection levels with spring connection.

³⁾ w/ = with ventilation slots, w/o = without ventilation slots

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

Multifunctional ME-IO housings with modular front connection technology

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



Your advantages



Convenient front connections for transmitting signals, data, and power



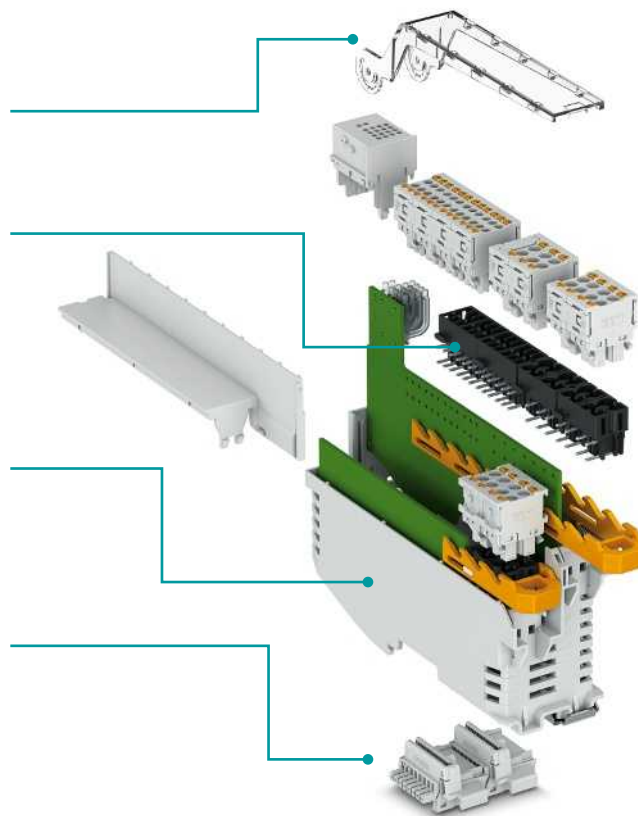
Block belts enable connector types to be grouped mechanically in any way in a confined space.



Additional marking option by means of inserts in transparent marking lid

Configure your product the way you want ¹⁾

- 4 Select accessories
- 3 Choose the connection technology
- 2 Define the lower housing part
- 1 Specify DIN rail connector



Go directly to the online configurator

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

i Web code: [#0512](#)

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

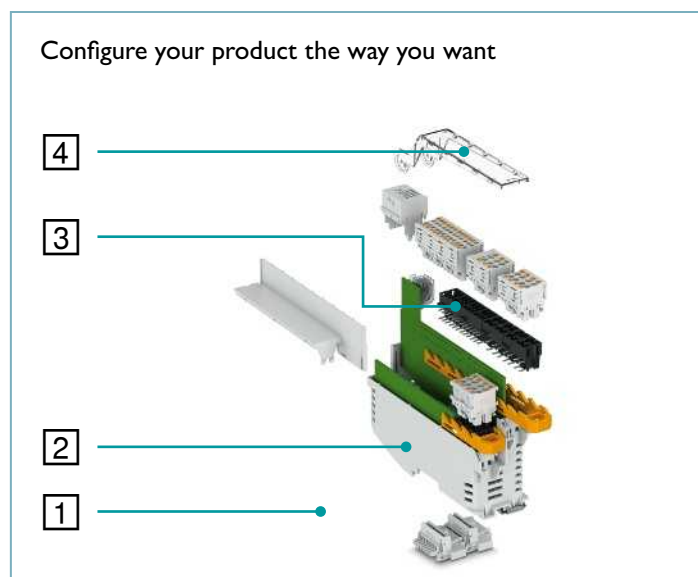
Test the ME-IO series and contact your sales contact person (sample set: 52005220).

¹⁾ The configuration overviews for this product range are to be found on pages 40 – 43.

ME-IO series configuration overview

1 DIN rail connectors						
No. of pos.	5-pos.		8-pos.			
Description	5 parallel	8 parallel	7 parallel, 1 series	6 parallel, 2 series		
						
Order No.	2201813	2202396	2202399	2202403		

2 Lower housing part						
Height	10 units					9 units
Module width	18.8 mm	LB 37.6 mm	37.6 mm	LB 75.2 mm	75.2 mm	18.8 mm
						
Order No.	2202506	2202618	2202663	2202620	2202664	2201809
Order No. with FE contact	2202507	2202619		2202621		
Lock and Release system ¹⁾						
Description	9U L&R	7U L&R	5U L&R	3U L&R		
Color similar to	RAL 2003	RAL 2003	RAL 2003	RAL 2003		
						
Order No.	2201794	2201795	2201796	2201797		



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i Web code: #0512

¹⁾ Lock and Release system corresponds to the connection technology.

3 Connection technology

Headers							
Cross section [mm ²] ¹⁾	2.5					1.5	
Number of positions	12-pos.	8-pos.	6-pos., 2220	4-pos., TTTT	6-pos., TT22	12-pos.	18-pos.
Slots	3	3	2	2	2	2	3
							
Order No., wave	2201788	2201789	2201792	2201790	2203783	2202233	2202232
Order No., reflow	2203406	2203405				2203409	2203408

Connectors							
Description	Standard types						
Cross section [mm ²] ¹⁾	2.5					1.5	
Number of positions	4-pos.	2-pos., bridged	2-pos.	2-pos.	Filler plugs	6-pos.	
Pusher color similar to	☐ RAL 2003	☐ RAL 2003	☐ RAL 2003	☐ RAL 2003		☐ RAL 2003	
							
Order No.	2201780	2201781	2201782	1081099	2202610	2202234	

Description	Pusher standard color options						
Cross section [mm ²] ¹⁾	2.5						
Number of positions	4-pos.	4-pos.	4-pos.	4-pos.	4-pos.	2-pos., bridged	4-pos.
Pusher color similar to:	☐ RAL 1018	☐ RAL 9010	☐ RAL 9005	☐ RAL 5015	☐ RAL 6021	☐ RAL 6021	☐ RAL 3013
							
Order No.	2202567	2202568	2202569	2202570	2202571	2202607	2202572

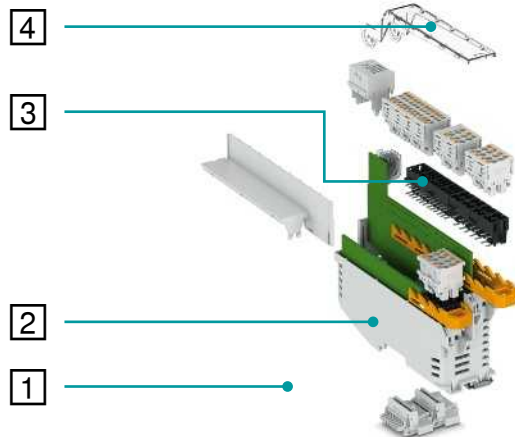
Description	Pusher combination color options						
Cross section [mm ²] ¹⁾	2.5						1.5
Number of positions	2-pos., bridged	4-pos.	4-pos.	4-pos.	4-pos.	4-pos.	6-pos.
							
Order No.	2202606	2202605	2202608	2203192	2203194	2203195	2202609

¹⁾ Based on solid conductors

ME-IO series configuration overview

3 Housing cover ¹⁾							
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	
							
Order 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 ³⁾	Filler plugs
							
Order No.	2202634	2201806	2202630	2202665	2202662	2202583	2202635
Pitch	2U for marking lid			L cover ²⁾		Insulation plate	
Module width	18.8 mm	18.8 mm	18.8 mm				
Description		10 holes	18 holes				
							
Order No.	2202616	2202582	2202581	2202622	2202626	2202629	

Configure your product the way you want



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¹⁾ Housing cover corresponds to the connection technology.

²⁾ For installation in 2202618, 2202619, 2202620, and 2202621

³⁾ Upper housing part suitable for integration of display frames 2203537, 2203538, and 2203539

⁴⁾ Optional for 2202620 and 2202664 as additional base latch

4 Accessories

	FE contact	Marking lid		Base latch ⁴⁾	Coding pins
					
Order No.	2278076	2202627	0804286	2201812	1790647

Block belts

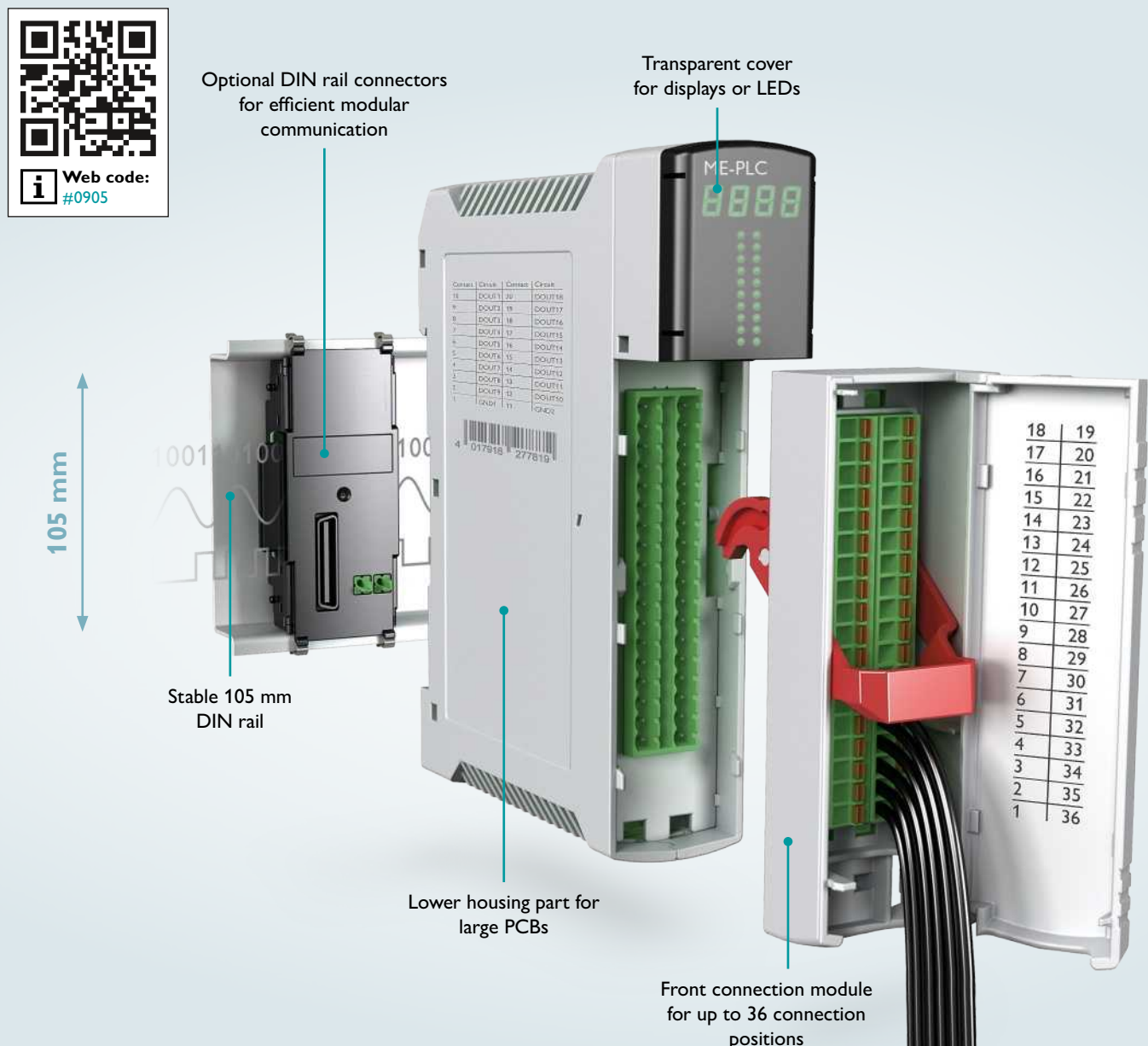
Pitch	2U	3U	4U	5U	6U
					
Order No.	1056724	1056723	1056722	1056892	1037100

Light guides and displays

Pitch	2x1	2x2	2x5	2x10	4x2	4x5	4x9
							
Order No.	1036658	1043044	1071310	1071314	1071316	1071318	1071321
Pitch	4x10	2x4	4x4	TFT display	TFT display	TFT display	
Border color similar to				RAL 7035	RAL 5015	RAL 1018	
							
Order No.	1071329	1036724	1036727	2203537	2203539	2203538	
Info				Including controller			

ME-PLC multifunctional housings for complex controllers

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



Your advantages



Front connection module with lever technology for high connection convenience



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



Universal cover design for freely selectable connection technology

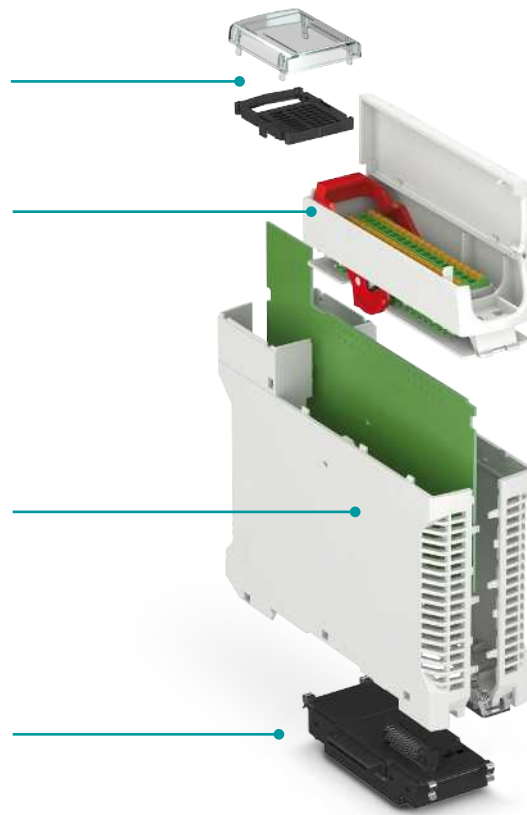
Configure your product the way you want ¹⁾

4 Select the housing termination

3 Select the front connection module

1 Select the lower housing part

2 Determine the DIN rail connector



Go directly to the online configurator

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

i Web code: #0512

Housing color options (RAL color system):

7035 9005 5015 1018

Other colors available on request.

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

¹⁾ The configuration overviews for this product range are to be found on pages 46 – 47.

ME-PLC series configuration overview

1 Lower housing parts

Description	Type	Order No.
For 50-/40-pos. bus connector	ME PLC 40 B BUS 50/40 GY7035	2201500
For 10-/10-pos. bus connector	ME PLC 40 B BUS 10/10 GY7035	2201499

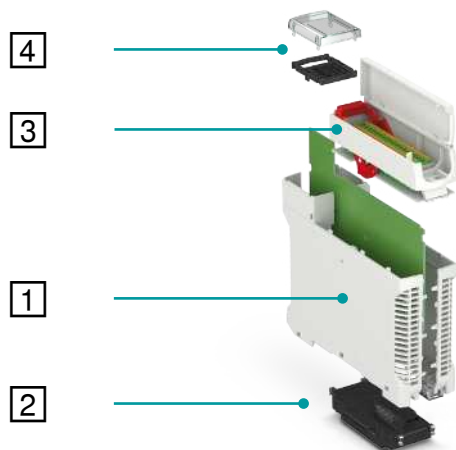
2 DIN rail connectors

Set including FE contact, 50/40-pos. connector without PCB	ME PLC 40 BUS 50/40 KIT BK	2201502
Set including FE contact, 2 x 10-pos. connector without PCB	ME PLC 40 BUS 10/10 KIT BK	2201503

3 Front connection module

Universal cover, securely snapped in	ME PLC 40 CL GY7035	2201505
Including 2 x 10-pos. FKCN connection technology, swiveling	ME PLC 40 CT20 GY7035	2201493
Including 2 x 18-pos. FKCN connection technology, swiveling	ME PLC 40 CT36 GY7035	2201494
Including 1 x 10-pos. FKCN connection technology, swiveling	ME PLC 40 CT10 GY7035	2201492
Including 2 x RJ45 connection technology, securely snapped in	ME PLC 40 CTRJ45 GY7035	2201495

Configure your product the way you want



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

i Web code: [#0512](#)

4 Housing termination

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

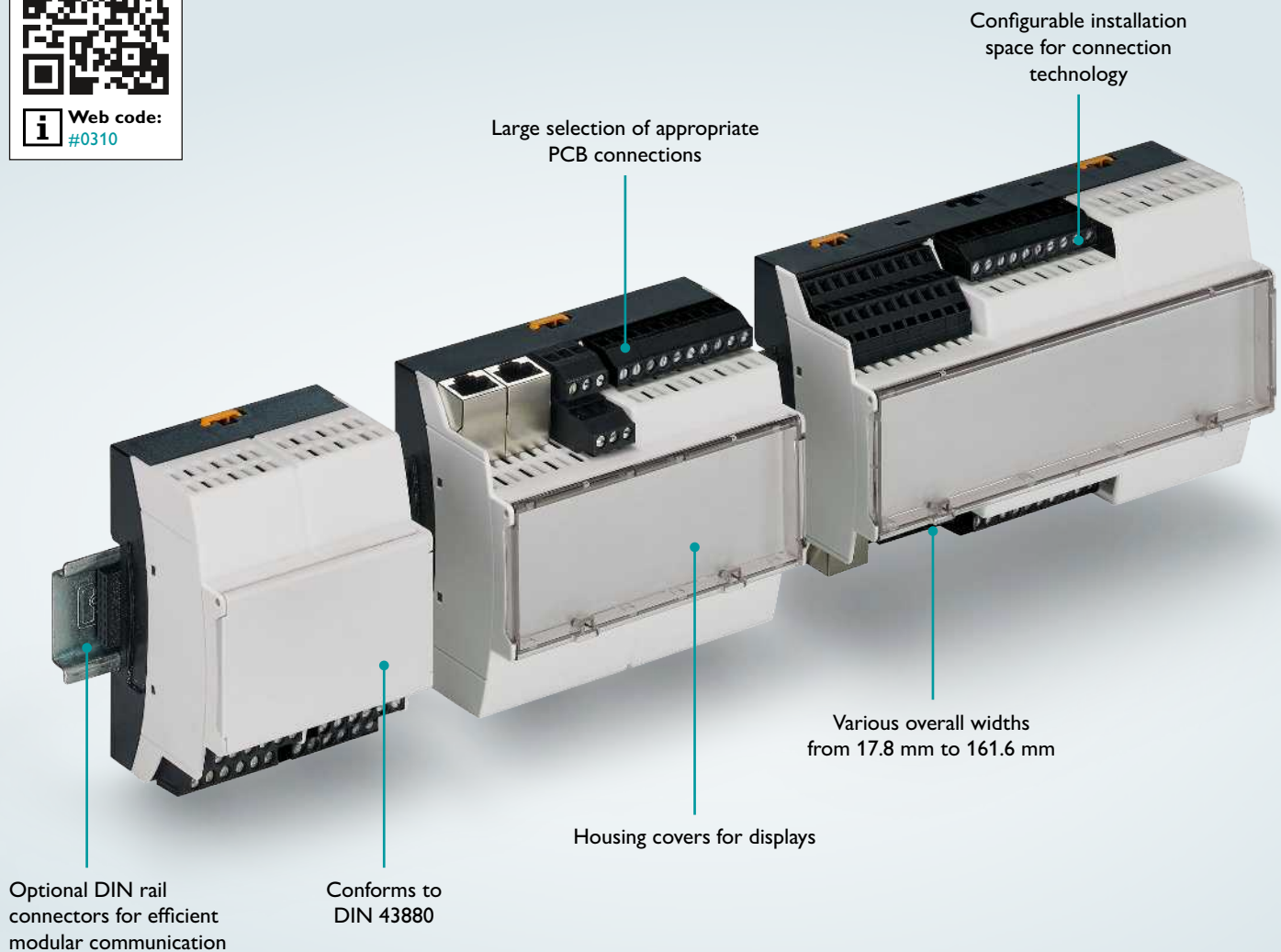
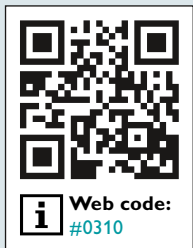
Accessories

DIN rail, unperforated 105 x 20 mm, cut to size individually	NS 105/20 UNPERF	2201508 DIN rail¹⁾
End bracket for NS 105/20 DIN rail	ME PLC EBT GY7035	2201498

¹⁾ With order key; order-based production specific to customer with length indication

Modular BC building installation housings

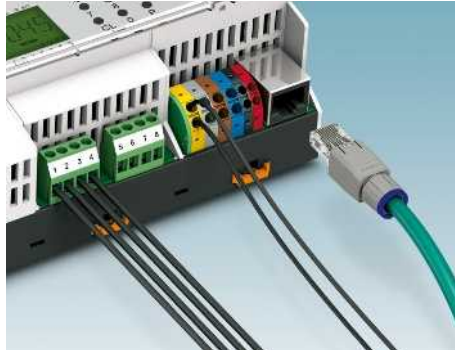
Modular electronics housings of the BC series represent future-oriented applications in building automation. The electronics housings feature modern design, multi-sided PCB connections, and an efficient DIN rail connector. The BC housings are suited for direct wall mounting or for use in installation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



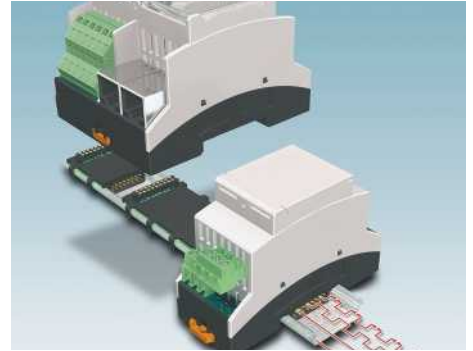
Your advantages



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



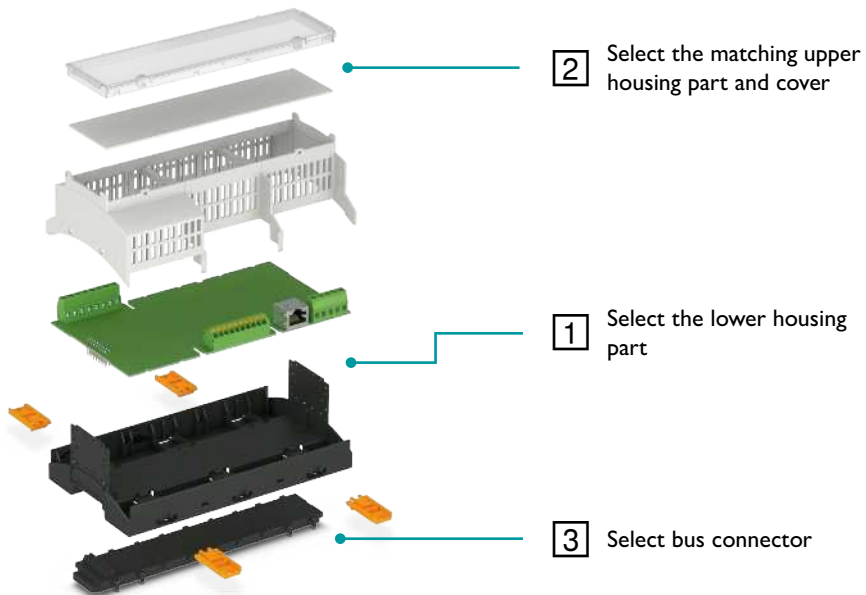
Maximum flexibility, thanks to free choice of PCB connection technology and various overall widths



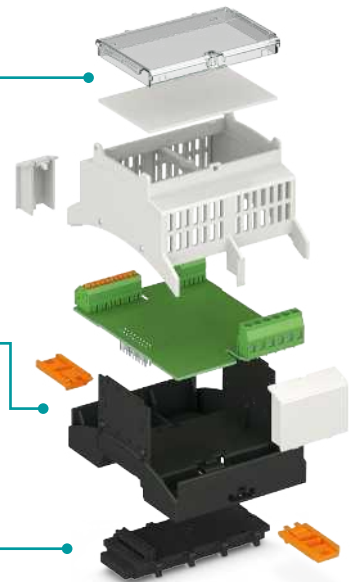
16-position DIN rail connector for series and parallel modular communication

Configure your product the way you want ¹⁾

BC modular



BC



Go directly to the online configurator

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

i Web code: #0512

Housing color options (RAL color system):

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

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

¹⁾ The configuration overviews for this product range are to be found on pages 50 – 55.

BC series configuration overview

1 Lower housing part			2 Upper housing part and housing cover				
Lower housing part	Housing width	Order No.	17.8 mm (1 HP)	35.6 mm (2 HP)		53.6 mm (3 HP)	
				11 mm	22 mm	11 mm	22 mm
	17.8 mm (1 HP)	2869634 ¹⁾ 2869647 ²⁾	2279732 ¹⁾ 2896144 ²⁾ 2896102 ³⁾				
	35.6 mm (2 HP)	2896254		2896034 ¹⁾ 2896157 ²⁾ 2896115 ³⁾	2896047 ¹⁾ 2896157 ²⁾ 2896115 ³⁾		
	53.6 mm (3 HP)	2896403				2896416 ¹⁾ 2896432 ²⁾ 2896445 ³⁾	2896429 ¹⁾ 2896432 ²⁾ 2896445 ³⁾
	71.6 mm (4 HP)	2896267					
	107.6 mm (6 HP)	2896270					
	161.6 mm (9 HP)	2278500					

3 Bus connector for DIN rail mounting						
Bus connector for DIN rail mounting ⁴⁾	Type	No. of pos.	Slots for the PCB	17.8 mm (1 HP)	35.6 mm (2 HP)	53.6 mm (3 HP)
	HBUS 35,6-16P-1S PSTD 0,65X0,65/9-2,54 ⁵⁾	16	1		2896283 2200700	
	HBUS 35,6-16P-2S PSTD 0,65X0,65/9-H-2,54 ⁵⁾	16	2	2896319 2200701		
	HBUS 53,6-16P-1S PSTD 0,65X0,65/9-2,54 ⁵⁾	16	1			2896458 2200700
	HBUS 53,6-16P-3S PSTD 0,65X0,65/9-H-2,54 ⁵⁾	16	3	2896322 2200701		
	HBUS 71,6-16P-1S PSTD 0,65X0,65/9-2,54 ⁵⁾	16	1			
	HBUS 107,6-16P-1S PSTD 0,65X0,65/9-2,54 ⁵⁾	16	1			
	HBUS 161,6-16P-1S PSTD 0,65X0,65/9-2,54 ⁵⁾	16	1			

¹⁾ Upper housing part

²⁾ Light gray housing cover, can be securely snapped in

³⁾ Transparent cover including insertion plate

⁴⁾ Suitable power connectors with 16 free cable ends: Order No. 2896348 or 2896335; cable jumpers: length 40 cm, Order No. 2202938, length 80 cm, Order No. 2201281; filler plugs for protecting empty HBUS slots, Order No. 2278173

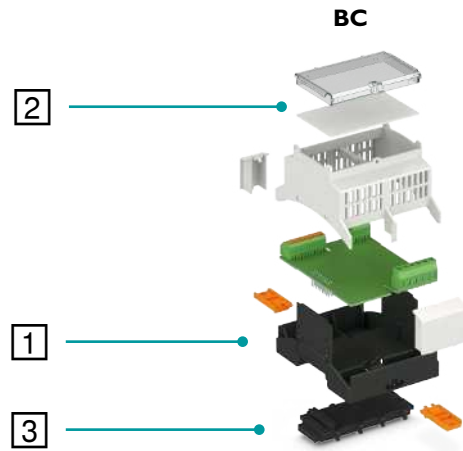
⁵⁾ Pin strip for connecting the HBUS with the PCB in the electronics housing

i Web code for the product list: #0311

71.6 mm (4 HP)		107.6 mm (6 HP)		161.6 mm (9 HP)	
Terminal installation depth					
11 mm	22 mm	11 mm	22 mm	11 mm	22 mm
					
2896050 ¹⁾ 2896160 ²⁾ 2896128 ³⁾	2896063 ¹⁾ 2896160 ²⁾ 2896128 ³⁾				
		2896076 ¹⁾ 2896173 ²⁾ 2896131 ³⁾	2896089 ¹⁾ 2896173 ²⁾ 2896131 ³⁾		
				2278513 ¹⁾ 2278539 ²⁾ 2278542 ³⁾	2278526 ¹⁾ 2278539 ²⁾ 2278542 ³⁾

71.6 mm (4 HP)	107.6 mm (6 HP)	161.6 mm (9 HP)
2896296 2200700		
	2896306 2200700	
		2278555 2200700

Configure your product the way you want



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

i Web code: #0512

BC modular series configuration overview

1 Lower housing part			2 Upper housing part and housing cover		
Lower housing part	Housing width	Order No.	71.6 mm (4 HP)	107.6 mm (6 HP)	161.6 mm (9 HP)
	71.6 mm (4 HP)	2896267	 Configurable ¹⁾ 2896160 ²⁾ 2896128 ³⁾		
	107.6 mm (6 HP)	2896270			
	161.6 mm (9 HP)	2278500		Configurable ¹⁾ 2896173 ²⁾ 2896131 ³⁾	Configurable ¹⁾ 2278539 ²⁾ 2278542 ³⁾

3 Bus connectors					
DIN rail connectors	Type	Number of positions/ slots for PCB	71.6 mm (4 HP)	107.6 mm (6 HP)	161.6 mm (9 HP)
	HBUS 71,6-16P-1S PSTD 0,65X0,65/9-2,54 ⁴⁾	16/1	2896296 ⁴⁾		
	HBUS 107,6-16P-1S PSTD 0,65X0,65/9-2,54 ⁴⁾	16/1		2896306 ⁴⁾	
	HBUS 161,6-16P-1S PSTD 0,65X0,65/9-2,54 ⁴⁾	16/1			2278555 ⁴⁾

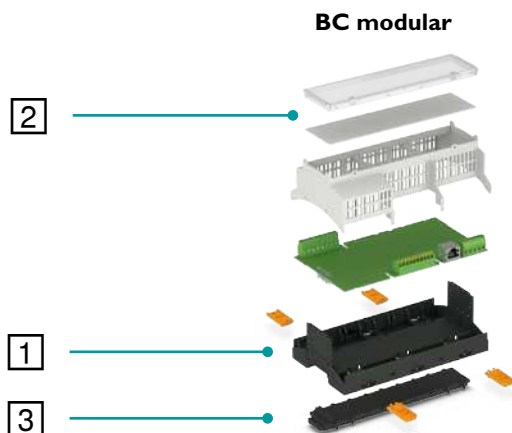
¹⁾ Modular upper housing part

²⁾ Light gray housing cover, securely snapped in

³⁾ Housing cover can be swiveled

⁴⁾ Suitable pin strip for contacting in the HBUS 2200700

Configure your product the way you want



Go directly to the online configurator

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

i Web code: #0512

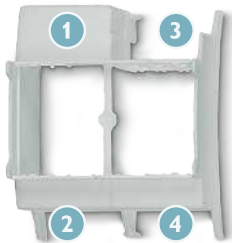
Example configuration

Configure the modular upper housing part and select the housing cover

For each of positions 1-6, 3 terminal block installation depths can be selected

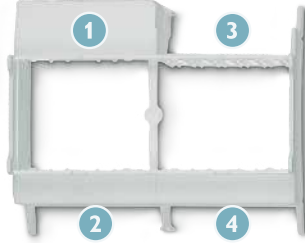
- 0 mm – The side panel is at the outermost position for maximum equipping area inside the housing.
- 11 mm – Middle side panel position for space inside the housing and for the connection technology
- 22 mm – The side panel is at the innermost position for maximum space for the connection technology.

Overall width 71.6 (4 HP)



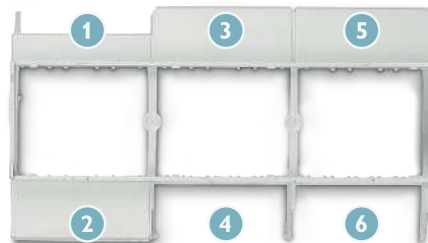
Order code
(example for depiction)
BC 71,6 OT 0 1 2 1

Overall width 107.6 (6 HP)



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

Overall width 161.6 (9 HP)



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

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

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

BC series configuration overview: PCB terminal blocks and PCB connectors

4 Connection technology for max. no. of pos. per side											
	Connection technology	Pitch	Conductor cross section ¹⁾	Qty	17.8	Qty	35,6 U11	Qty	35,6 U22	Qty	53.6 U11
	Filler plug for unassembled, largest segment			2	2854115	1	2896209	1	2896212	1	2896225
	PCB terminal blocks with screw connection										
	For wave soldering processes										
	MKDSO 2,5/3-L	5.0 mm	2.5 mm ²	2	2854102						
	MKDSO 2,5/3-R	5.0 mm	2.5 mm ²	2	2854092						
	For the reflow process										
	MKDS 1,5/... HT	5.0 mm	1.5 mm ²			2	1985894	2	1985849	3	1985894
	MKDSN 2,5/... HT	5.0 mm	2.5 mm ²			2	1985933	2	1985933	3	1985933
	For wave soldering processes										
	MKDS 1,5/...	5.0 mm	1.5 mm ²			2	1715035	2	1715035	3	1715035
	MKDSN 2,5/...	5.0 mm	2.5 mm ²			2	1890976	2	1890976	3	1890976
	MKKDSH 3/...	5.0 mm	2.5 mm ²			2	1721346	2	1721346	3	1721346
	For wave soldering processes										
	GMKDS 1,5/...	7.5 mm	1.5 mm ²			2	1717020	2	1717020	2	1717033
	GMKDSP 3/...	7.5 mm	2.5 mm ²			2	1732021	2	1732021	2	1732034
	Two-tier, for wave soldering processes										
	MKKDS 1,5/...	5.0 mm	1.5 mm ²					2	1725012		
	MKKDSG 3/...	5.0 mm	2.5 mm ²					1	1721087		
	PCB terminal blocks with Push-in spring connection										
	For wave soldering processes										
	SPTA 1/...-3,5	3.5 mm	1.0 mm ²			1	1752162	1	1752162	1	1752201
	SPTA 1/...-5,0	5.0 mm	1.0 mm ²			1	1752256	1	1752256	1	1752298
	PCB terminal blocks with spring-cage connection										
	ZFKDS 1,5C-5,0	5.0 mm	1.5 mm ²					6	1889301		
	PCB terminal blocks with double spring connection										
	FK-MPT 0,5/...-3,5-H	3.5 mm	0.5 mm ²			1	1928822	1	1928822	1	1928877
	FK-MPT 0,5/...-ST-3,5	3.5 mm	0.5 mm ²			1	1913989	1	1913989	1	1914043
	PCB terminal blocks with spring connection										
	PTSA 0,5/...-2,5-Z	2.5 mm	0.5 mm ²			1	1990096	1	1990096	1	1990148
	PTSA 0,5/...-2,5-F	2.5 mm	0.5 mm ²			1	1989832	1	1989832	1	1989887
	PTS 1,5/...-5,0-H	5.0 mm	2.5 mm ²			1	1792902	1	1792902	1	1792931
	PCB terminal blocks with screw connection										
	PT 1,5/...-5,0-H	5.0 mm	2.5 mm ²			1	1935200	1	1935200	1	1935239
	PT 1,5/...-PH-5,0	5.0 mm	2.5 mm ²			1	1755622	1	1755622	1	1755651
	PCB terminal blocks with double spring connection										
	PTDA 1,5/...-PH-3,5	3.5 mm	1.5 mm ²					1	1725185		
	PTDA 2,5/...-PH-5,0	5.0 mm	2.5 mm ²					1	1725549		
	Pin strips										
	PST 1,3/...-LV-5,0	5.0 mm						1	1704521		
	PST 1,3/...-5,0	5.0 mm				1	1933228	1	1933228	1	1933257
	RJ45 connection										
	VS-08-BU-RJ45/LP-1							1	1420401		

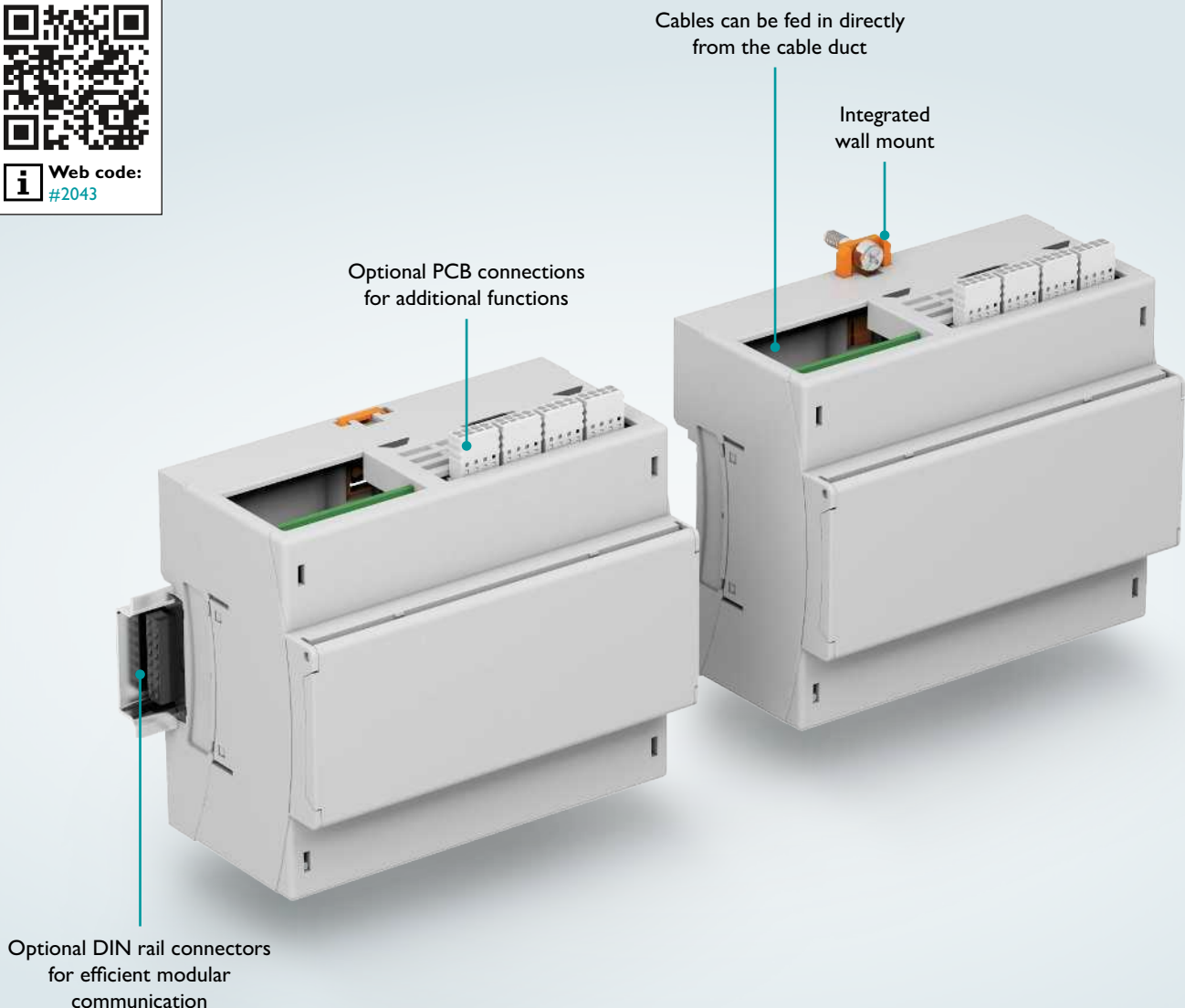
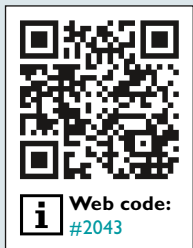
¹⁾ Based on stranded conductors, additional connection technology possible

BC/BC modular

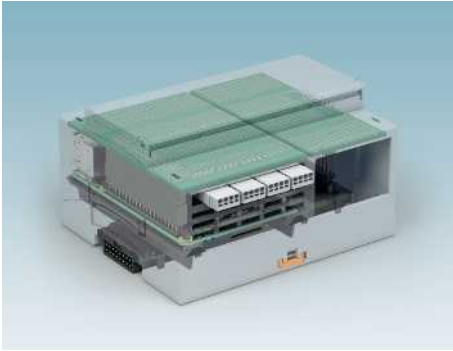
													
Qty	53.6 U22	Qty	71.6 U11	Qty	71.6 U22	Qty	107.6 U11	Qty	107.6 U22	Qty	161.6 U11	Qty	161.6 U22
1	2896238	2	2896209	2	2896212	2	2896225	2	2896238	3	2896225	3	2896238
3	1985894	4	1985894	4	1985849	6	1984950	6	1984950	9	1984950	9	1984950
3	1985933	4	1985933	4	1985933	6	1985933	6	1985933	9	1985933	9	1985933
3	1715035	4	1715035	4	1715035	6	1715035	6	1715035	9	1715035	9	1715035
3	1890976	4	1890976	4	1890976	6	1890976	6	1890976	9	1890976	9	1890976
3	1721346	4	1721346	4	1721346	6	1721346	6	1721346	9	1721346	9	1721346
2	1717033	4	1717020	4	1717020	4	1717033	4	1717033	6	1717033	4	1717033
2	1732034	4	1732021	4	1732021	4	1732034	4	1732034	6	1732034	4	1732034
3	1725025			4	1725012			6	1725025			9	1725025
3	1721087			2	1721087			6	1721087			9	1721087
1	1752201	2	1752162	2	1752162	2	1752201	2	1752201	3	1752201	3	1752201
1	1752298	2	1752256	2	1752256	2	1752298	2	1752298	3	1752298	3	1752298
	1889259			12	1889301				1889259				1889259
1	1928877	2	1928822	2	1928822	2	1928877	2	1928877	3	1928877	3	1928877
1	1914043	2	1913989	2	1913989	2	1914043	2	1914043	3	1914043	3	1914043
1	1990148	2	1990096	2	1990096	2	1990148	2	1990148	3	1990148	3	1990148
1	1989887	2	1989832	2	1989832	2	1989887	2	1989887	3	1989887	3	1989887
1	1792931	2	1792902	2	1792902	2	1792931	2	1792931	3	1792931	3	1792931
1	1935239	2	1935200	2	1935200	2	1935239	2	1935239	3	1935239	3	1935239
1	1755651	2	1755622	2	1755622	2	1755651	2	1755651	3	1755651	3	1755651
1	1725250			2	1725185			2	1725250			3	1725250
1	1725649			2	1725549			2	1725649			3	1725649
1	1704547			2	1704521			2	1704547			3	1704547
1	1933257	2	1933228	2	1933228	2	1933257	2	1933257	3	1933257	3	1933257
1	1420401			2	1420401			2	1420401			3	1420401

Modular RPI-BC electronics housings for Raspberry Pi applications

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



Your advantages



Individual function extensions due to optional interfaces and additional accessories



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



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

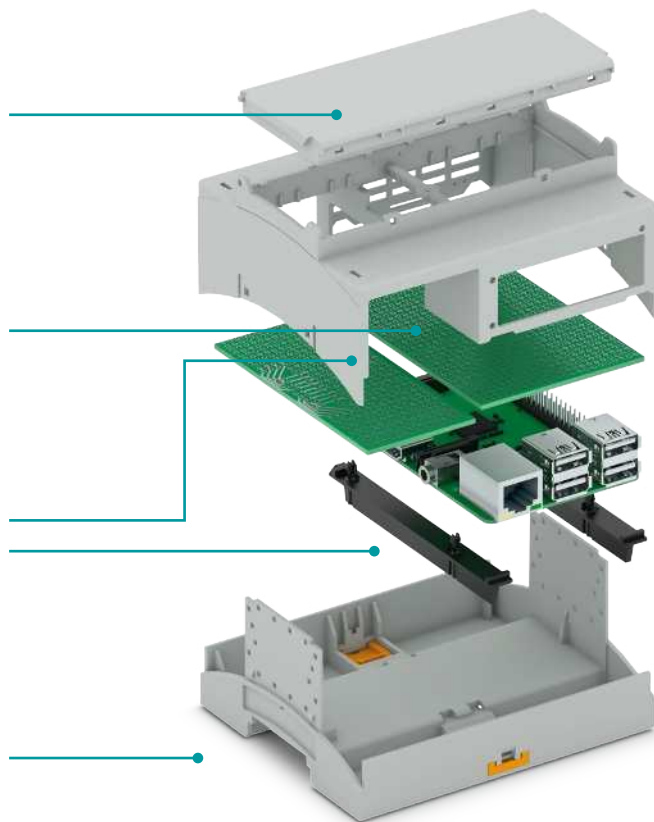
Configure your product the way you want ¹⁾²⁾

3 Select housing cover

4 Assemble accessories

1 Choose the upper housing part and PCB retainer

2 Select lower housing part



Go directly to the online configurator

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

i Web code: **#0512**

Housing color options (RAL color system):

■ 7035

Other colors available on request.

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

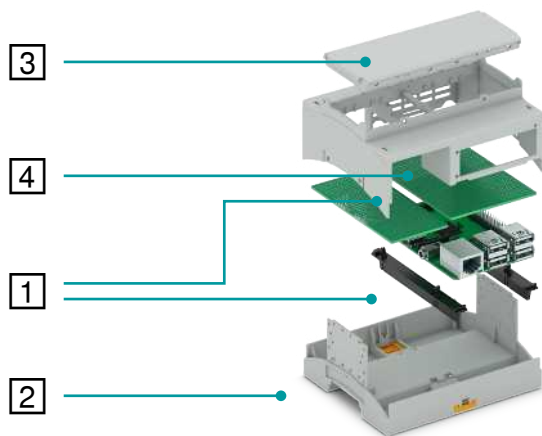
¹⁾ The configuration overviews for this product range are to be found on pages 58 – 59.

²⁾ Compatible for Raspberry Pi (A+, B+, B2, and B3)

RPI-BC series configuration overview

Set			
	Description	Type	Order No.
	Set consisting of lower part including base latch, upper part, cover (snaps in securely) and PCB retainer, color: similar to light gray	RPI-BC 107,6 DEV-KIT KMGY	2202874
1 Upper housing part and PCB retainer			
	Upper part and PCB retainer, color: similar to light gray, PCB retainer, color: similar to anthracite gray	RPI-BC 107,6 DEV-KIT KMGY P10	2202875
2 Lower housing part			
	Lower part including base latch, color: similar to light gray	BC 107,6 UT HBUS KMGY	2202951
	Lower part including base latch, color: similar to jet black	BC 107,6 UT HBUS BK	2896270
3 Housing cover			
	Transparent cover (swiveling) and plate	BC 107,6 DKL S TRANS	2896131
	Cover (snaps in securely), color: similar to light gray	BC 107,6 DKL R KMGY	2896173

Configure your product the way you want



Go directly to the online configurator

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

i Web code: [#0512](#)

4 Accessories

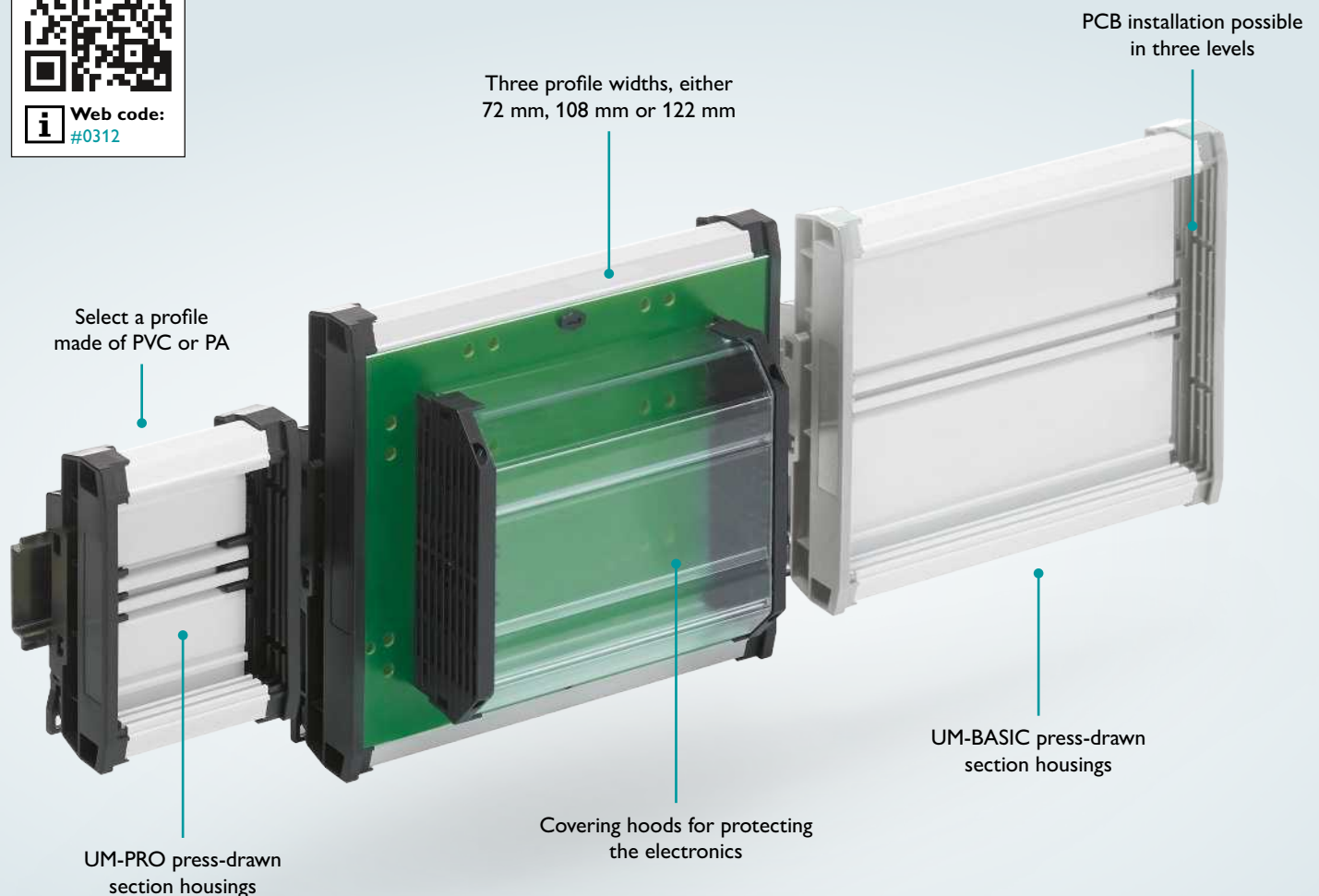
	A+ adapter for using the Raspberry Pi A+, color: similar to anthracite gray	RPI-BC A+-ADAPTER ATGY	2202906
	HBUS 107,6 without pin strip, color: similar to deep gray	HBUS 107,6-16P-1S BK P1	2202876
	PCB ¹⁾ with HBUS connection including pin strip, with hole pattern	RPI-BC EXT-PCB HBUS SET	2202995
	PCB ²⁾ with GPIO connection and soldering rings for PTSM terminal blocks, including socket strips and PTSM terminal blocks, with hole pattern	RPI-BC INT-PCB SET	2202994
	Socket strip for connecting an additional PCB or PCB with hole pattern to the GPIOs of the Raspberry Pi computer	PSTD 0,65X0,65/40-2,54	2202992
	Pin strips for connecting an additional PCB or PCB with hole pattern to the HBUS	PSTD 0,65X0,65/18-3IS-2,54	2202993

Additional products

	DEV-KIT BC 107,6: contains 1 x BC 107,6 housing and PCB terminal blocks (MKDS), supplied in individual parts	BC 107,6 DEV-KIT KMGY	2202525
	PCB for DEV-KIT BC 107,6, with hole pattern	BC 107,6/40 U11 HBUS DEV-PCB	2202544
	Bus connector to connect BC modules on the DIN rail; suitable for BC DEV-KITS, contains HBUS 107,6 and pin strip	HBUS 107,6-16P-1S DEV-KIT BK	2202545

UM press-drawn section housings for individual PCB sizes

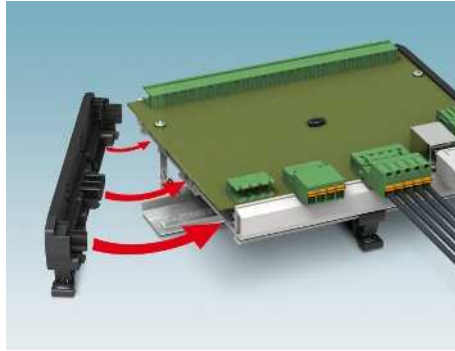
Press-drawn section housings of the UM-BASIC and UM-PRO series allow for individualized installation dimensions and outstandingly simple assembly. The open design principle is ideally suited for flexible and large-scale device concepts.



Your advantages



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



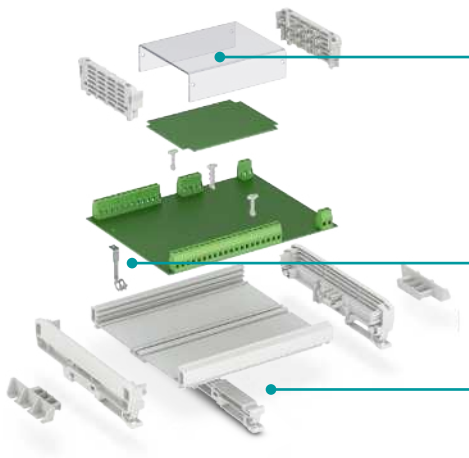
Easy device mounting method, thanks to snap-mount principle (the sides are fixed without the aid of tools)



High degree of flexibility, thanks to freely positionable covering hoods

Configure your product the way you want ¹⁾

UM-BASIC



2 Select the profile cover

3 Select accessories

1 Select the basic profile

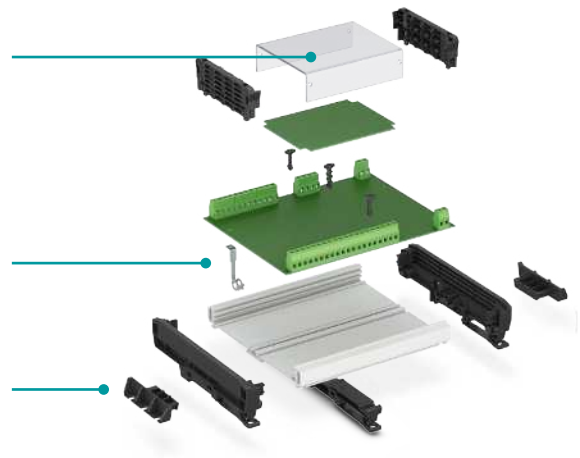
Housing color options (RAL color system):

■ 7035

Other colors available on request.

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

UM-PRO



Housing color options (RAL color system):

■ 7035

Other colors available on request.

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

Go directly to the online configurator

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

i Web code: #0512

¹⁾ The configuration overviews for this product range are to be found on pages 62 – 65.

UM-BASIC series configuration overview

1 Basic profile, PVC insulation material, temperature range: -40°C to +50°C

				
Description	Type	UM-BASIC profile Profile width (inner)		
Order key for UM-BASIC profiles		72 mm	108 mm	122 mm
Order No.	Profile width	Length [cm] ¹⁾	Color	
Example: 2200148	/ UM-BASIC 72	/ 14.3	/ GY7035	
PVC profile, profile length customer-specific according to order key, color: light gray	UM-BASIC PROFILE	2200149	2200149	2200149
Lateral elements (left) with fastening foot for TS35 DIN rail, color: light gray	UM-BASIC/PRO ... COVER-L KMGY	2202018	2202021	2202045
Lateral elements (right) with fastening foot for TS35 DIN rail, color: light gray	UM-BASIC/PRO ... COVER-R KMGY	2202019	2202022	2202046

2 Profile cover, PC insulating material

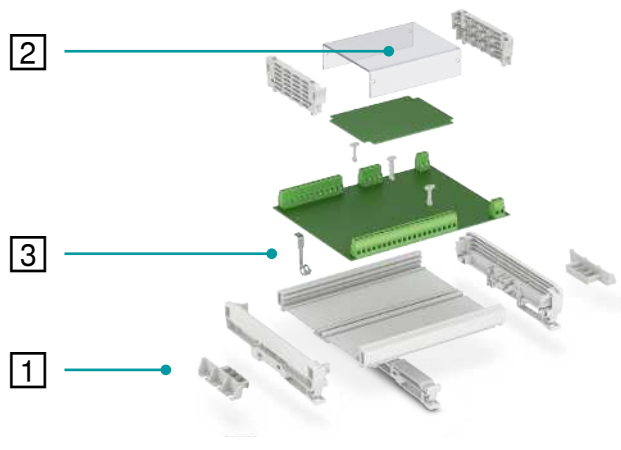
Order key for U-shaped profile covers				UM-BASIC profile Profile width (inner)		
Example:	Order No.	Cover	Length [cm] ¹⁾	72 mm	108 mm	122 mm
	2202036	AU 73	14.1			
U-shaped profile cover, low version, 73 mm wide, color: transparent				UM-BASIC/PRO A/U N 73 cm	2202035	2202035
U-shaped profile cover,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

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 lateral elements, is equal to the PCB length plus 0.4 cm. The maximum length of a profile cover is the PCB length minus 1.9 cm.

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 3.0/100.0 cm.

Configure your product the way you want

UM-BASIC



Go directly to the online configurator

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

i Web code: #0512

3 Accessories

PE contact metals, including mounting screw		UM-BASIC housing width		
		72 mm	108 mm	122 mm
Top PCB level version	UM-BASIC/PRO PE CONTACT L1	2202025		
Middle PCB level version	UM-BASIC/PRO PE CONTACT L2	2202026		
Bottom PCB level version	UM-BASIC/PRO PE CONTACT L3	2202027		
Additional elements for securing the PCB		UM-BASIC housing width		
		72 mm	108 mm	122 mm
Top PCB version, lateral, color: light gray	UM-BASIC/PRO PCB S-LOCK KMGY	2202031		
Top PCB version, center, color: light gray	UM-BASIC/PRO PCB C-LOCK L1 KMGY	2202028		
Middle PCB version, center, color: light gray	UM-BASIC/PRO PCB C-LOCK L2 KMGY	2202029		
Bottom PCB version, center, color: light gray	UM-BASIC/PRO PCB C-LOCK L3 KMGY	2202030		
Mounting flange, for direct wall mounting, color: light gray	UM-BASIC/PRO MOUNT KMGY	2202032		
Foot element for DIN rail for mounting under UM-BASIC PROFILE, color: light gray	UM-BASIC/PRO ... FOOT KMGY	2202023		
Bladed screwdriver	SZF 0-0,4X2,5	1204504		

UM-PRO series configuration overview

1 Basic profile, PA insulation material, temperature range: -40°C to +100°C

				
Description	Type	UM-PRO profile Profile width (inner)		
Order key for UM-PRO profiles		72 mm	108 mm	122 mm
Order No. Profile width Length [cm] ¹⁾ Color Example: 2200149 / UM-PRO 72 / 14.3 / GY7035				
Polyamide profile, customer-specific profile length corresponding to order key, color: light gray	UM-PRO PROFILE	2200148	2200148	2200148
Side elements (left) with fastening foot for NS35 DIN rail, color: black	UM-PRO ... COVER-L BK	2200151	2200155	2200158
Side elements (right) with fastening foot for NS35 DIN rail, color: black	UM-PRO ... COVER-R BK	2200152	2200156	2200159

2 Profile cover

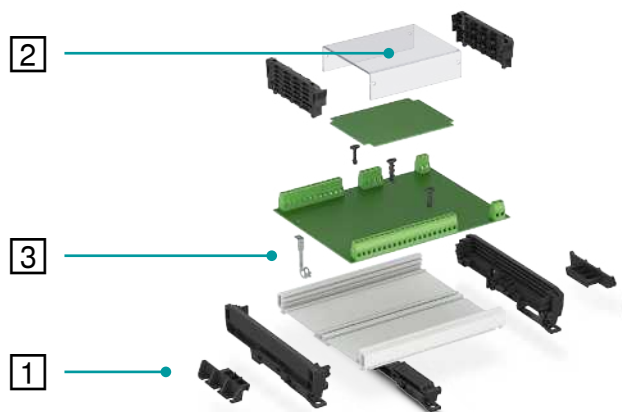
Order key for U-shaped profile covers		UM-PRO profile Profile width (inner)		
Order No. Cover Length [cm] ¹⁾ Example: 2200311 / AU 73 / 14.1		72 mm	108 mm	122 mm
U-shaped profile cover, low version, 73 mm wide, color: transparent	UM-PRO A/U N 73 cm	2200310	2200310	2200310
U-shaped profile cover, tall version, 73 mm wide, color: transparent	UM-PRO A/U 73 cm	2200311	2200311	2200311
U-shaped profile cover, 92 mm wide, color: transparent	UM-PRO A/U 92 cm	2200312	2200312	2200312
Latching cover for UM-PRO A/U N 73 cm U-shaped profile cover, color: black	UM-PRO LID-73N BK	2200174	2200174	2200174
Latching cover for UM-PRO A/U 73 cm U-shaped profile cover, color: black	UM-PRO LID-73 BK	2200173	2200173	2200173
Latching cover for UM-PRO A/U N 92 cm U-shaped profile cover, color: black	UM-PRO LID-92 BK	2200172	2200172	2200172

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 lateral elements, is equal to the PCB length plus 0.4 cm. The maximum length of a profile cover is the PCB length minus 1.9 cm.

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 3.0/100.0 cm.

Configure your product the way you want

UM-PRO



Go directly to the online configurator

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

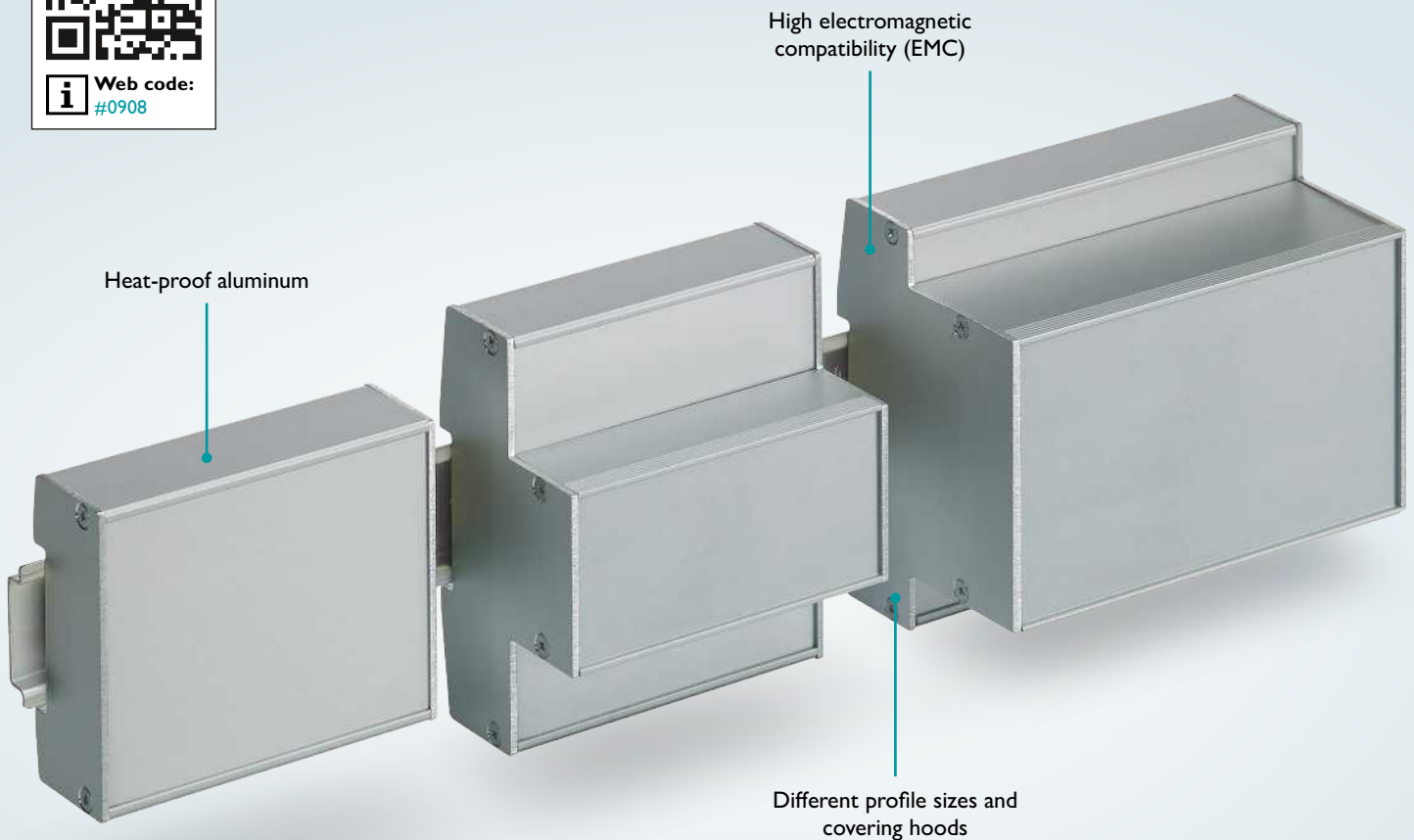
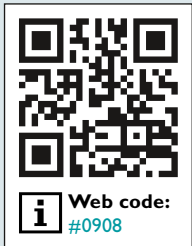
i Web code: #0512

3 Accessories

PE contact metals, including mounting screw		UM-PRO housing width		
		72 mm	108 mm	122 mm
Top PCB level version	UM-PRO PE CONTACT L1	2200161		
Middle PCB level version	UM-PRO PE CONTACT L2	2200162		
Bottom PCB level version	UM-PRO PE CONTACT L3	2200163		
Additional elements for securing the PCB		UM-PRO housing width		
		72 mm	108 mm	122 mm
Top PCB version, lateral, color: black	UM-PRO PCB S-LOCK BK	2200168		
Top PCB version, center, color: black	UM-PRO PCB C-LOCK L1 BK	2200164		
Middle PCB version, center, color: black	UM-PRO PCB C-LOCK L3 BK	2200165		
Bottom PCB version, center, color: black	UM-PRO PCB C-LOCK L2 BK	2200166		
Mounting flange, for direct wall mounting, color: black	UM-PRO MOUNT BK	2200171		
Foot element for DIN rail for mounting under UM-PRO PROFILE, color: black	UM-PRO ... FOOT BK	2200157		
Bladed screwdriver	SZF 0-0,4X2,5	1204504		

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

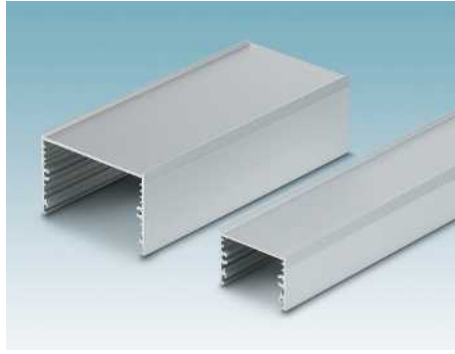
Made entirely of aluminum, the UM-ALU housing system offers a high degree of electromagnetic compatibility (EMC) and ensures full flexibility in the assembly process. The housings are especially suited for industrial environments with high electromagnetic interference potential.



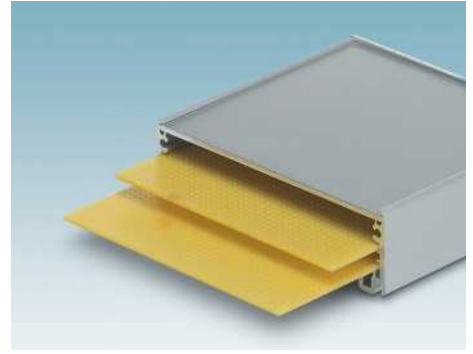
Your advantages



Heat-proof aluminum for optimal protection of sensitive electronics

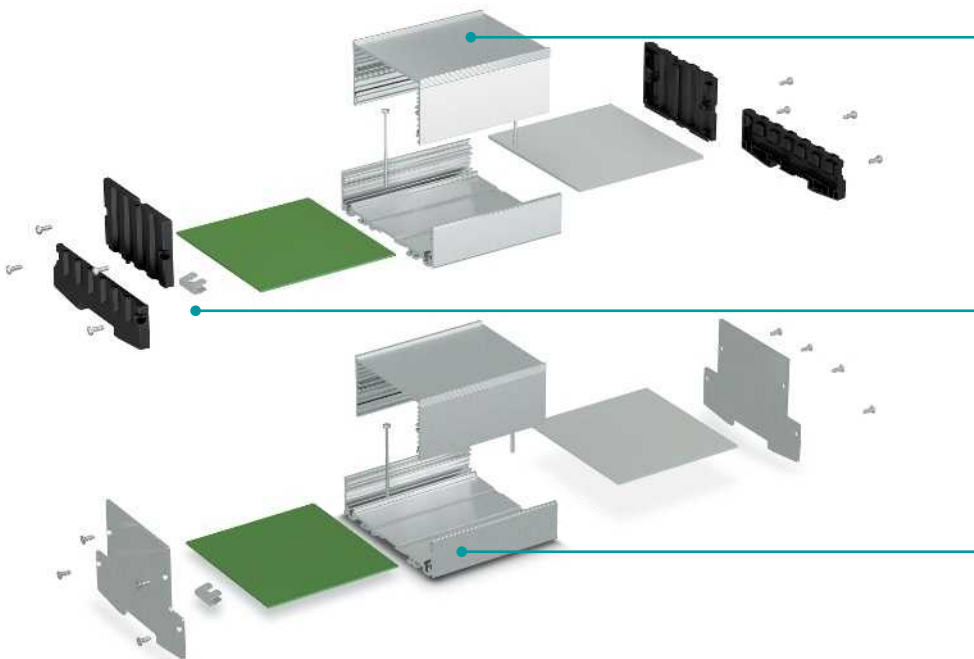


Different profile sizes and covering hoods for electronics assemblies suited to the application



PCB installation on up to seven levels for flexible electronics solutions

Configure your product the way you want ¹⁾



2 Specify profile cover

3 Select accessories

1 Select the basic profile and lateral plates

Go directly to the online configurator

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

i Web code: #0512

Housing color options (RAL color system):

■ 9006

Other colors available on request.

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

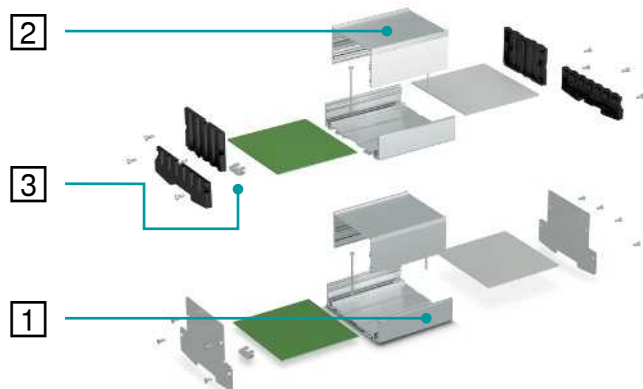
¹⁾ The configuration overviews for this product range are to be found on pages 68 – 69.

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
2 lateral plates on the left and right, incl. snap-on foot, anodized aluminum	UM-ALU 4- ... COVER AL	2200933	2200951
2 lateral plates on the left and right, incl. snap-on foot, anodized aluminum for upper part profile width of 45 mm	UM-ALU 4- ... COVERLID 45 AL	2201758	2201759
2 lateral plates on the left and right, incl. snap-on foot, anodized aluminum for upper part profile width of 75 mm	UM-ALU 4- ... COVERLID 75 AL	2202085	2201760
2 lateral plates on the left and right, incl. snap-on foot, black polyamide	UM-ALU 4- ... COVER PA BK	2200934	2200952

Configure your product the way you want



Go directly to the online configurator

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

i Web code: #0512

2 Profile cover

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

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

Basic profile front plate, anodized aluminum

Length 42.5 mm	UM-ALU 4- ... FRONT 42,5 AP	2202086	2202094
Length 60 mm	UM-ALU 4- ... FRONT 60 AP	2202087	2202095
Length 95 mm	UM-ALU 4- ... FRONT 95 AP	2202088	2202096
Length 130 mm	UM-ALU 4- ... FRONT 130 AP	2202089	2202098
Length 165 mm	UM-ALU 4- ... FRONT 165 AP	2202090	2202099
Length 200 mm	UM-ALU 4- ... FRONT 200 AP	2202091	2202100
Length 235 mm	UM-ALU 4- ... FRONT 235 AP	2202092	2202101
Length 990 mm	UM-ALU 4- ... FRONT 990 AP	2202093	2202102

Cap set including screws for profile cover, black polyamide

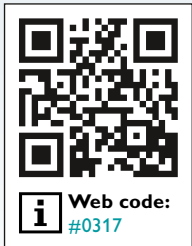
2 side caps on the right and left for profile cover, black polyamide	UM-ALU 4LID ... PA BK	2200971	2200972
--	-----------------------	---------	---------

3 Accessories

Snap-on foot for DIN rail, including screw (optional for long profiles)	UM-ALU 4 FOOT	2200974	2200974
Grounding clamp for making contact with DIN rail	UM-ALU 4 PE CONTACT	2200973	2200973

Field housings

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



ECS outdoor housings

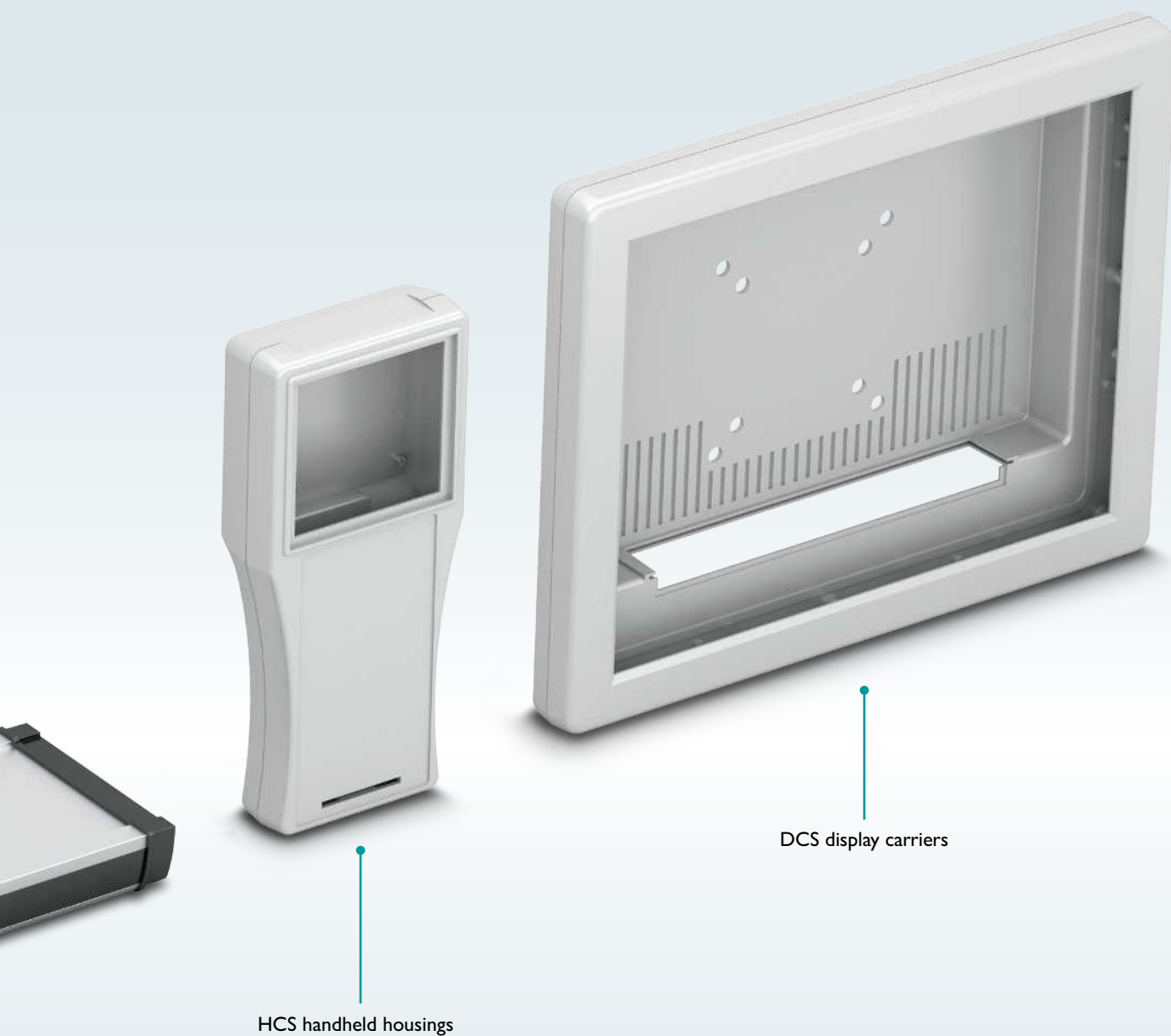


UCS universal housings



HC-ALU
profile housings





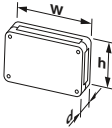
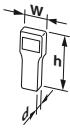
HCS handheld housings

DCS display carriers

Your advantages

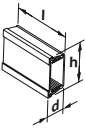
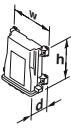
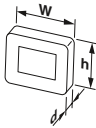
- ✓ Wide range of applications, thanks to modular housing systems
- ✓ High degree of protection, up to IP69K, for use in harsh ambient conditions
- ✓ Proven PCB connection technology permits practical customization
- ✓ Customer-specific versions for unique device designs

Field housings overview

Field housings					
					
Housing series		UCS		HCS	
 Web code		#0854		#0856	
Mounting	On DIN rail DIN EN 60715	NS35 ¹⁾			
	Other	Wall mounting, tabletop operation		Handheld	
Temperature range for operation [°C] depending on power dissipation		-40 ... +100		-20 ... +80	
Degree of protection per DIN EN 60529		IP40		IP54	
Degree of protection per NEMA 250					
Shock resistance per DIN EN 50102					
Dimensions	Width / W [mm] or Length / L [mm]		125 / 145 / 195 / 237 ¹⁾		70.5 ... 116
	Depth / D [mm]		47 / 67		26 ... 40
	Height / H [mm]		87 / 125 / 145 / 195 ¹⁾		110 ... 253
Maximum usable PCB surface [mm²] per PCB		6000 ... 35800 ²⁾		5700 ... 22000	
Power dissipation [W] at 20°C		9.7...41.9			
Display integration		•		•	
Membrane keypad installation		•		•	
Light guide integration		•		Possible to a limited extend	
PCB connection		Optional configuration, e.g. with M12 panel feed-throughs			
Variability		Stackable, side walls can be replaced, impact-resistant		Optional battery operation	
Material	Designation	PC (polycarbonate)		ABS (acrylonitrile butadiene styrene copolymer)	
	Flammability rating	V0 (UL94)		V0 (UL94)	
Sample set		52008272			
See page		74		80	

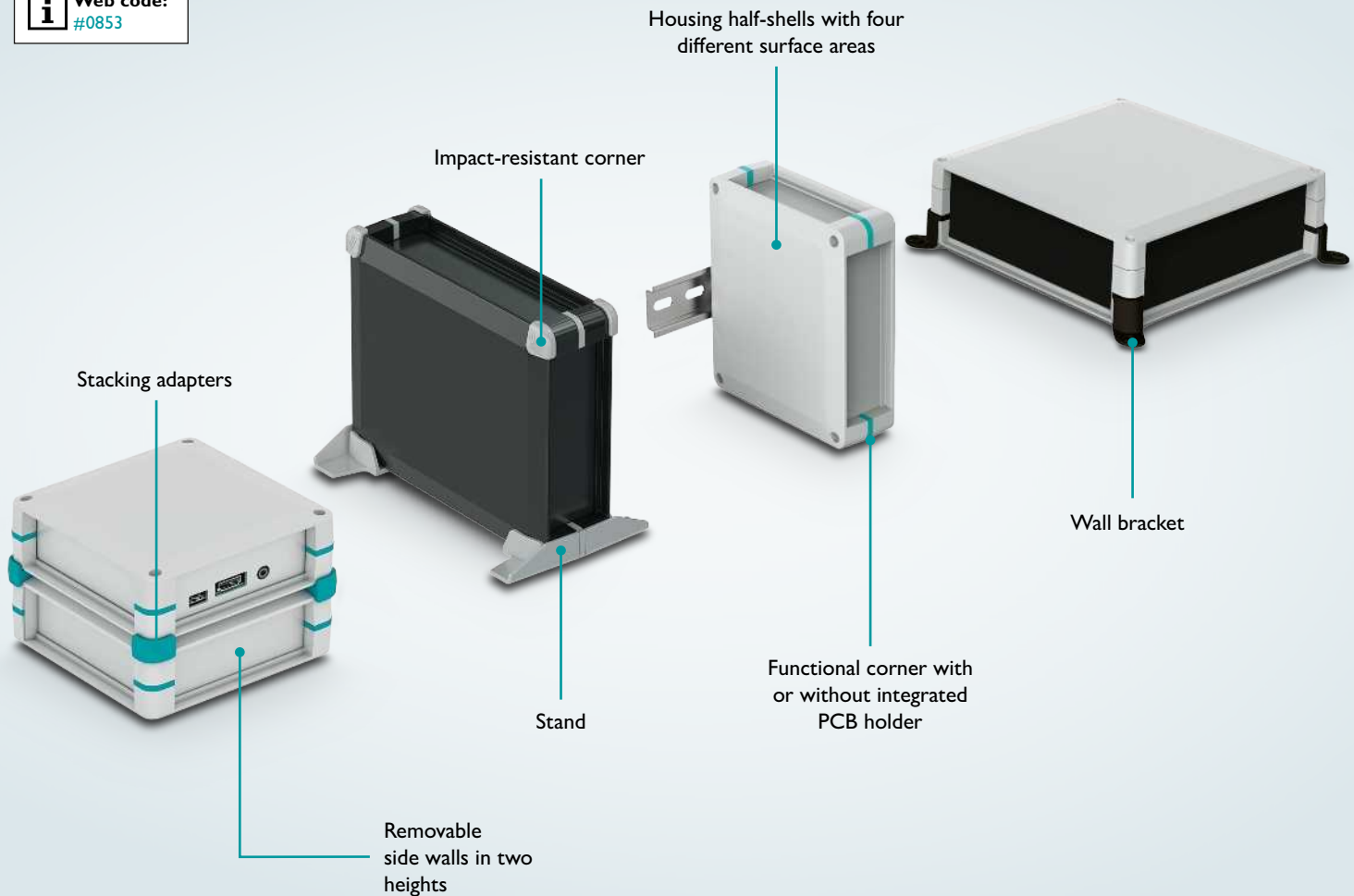
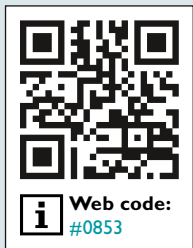
¹⁾ Mounting on DIN rail not possible for 237 x 195 mm version

²⁾ One PCB per housing half

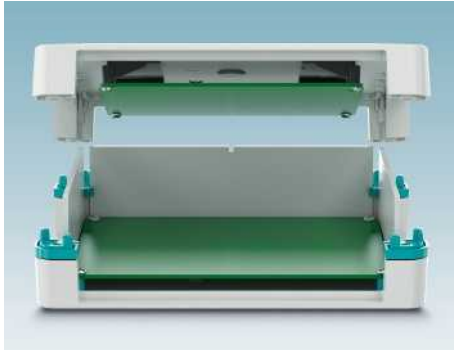
				Display holders	
					
HC-ALU		ECS		DCS	
#0925		#0858		#0860	
Handheld Wall mounting		Wall or mast mounting		Handheld Wall mounting (VESA 75+100)	
-40 ... +70		-40 ... +100		-20 ... +80	
IP65		IP69 (IP69K in accordance with ISO 20653)		IP54	
		Type 6			
		IK 08			
	Profile length 100/150/200/1000		163 / 196		224 / 362
	33 / 55		64		40 / 62
	74 / 99 / 121 / 184		120 / 180		157 / 286
5000 ... 158000		12800 ... 15400		18900 ... 93000	
		19			
•					
•				•	
Possible to a limited extend		Maximum IP68		Possible to a limited extend	
Optional configuration, e.g. with M12 panel feed-throughs		Optional configuration, e.g. with M12 panel feed-throughs		Optional configuration, e.g. with M12 panel feed-throughs	
Wall mounting optional		Mast mounting, wall mounting, pressure compensation membrane		Wall mounting, VESA mounting, adaptable battery housing, side walls can be replaced	
Profile: Anodized aluminum (Al Mg Si0.5) Cover: Zinc die-cast (Z 410)		PC (polycarbonate)		ABS (acrylonitrile butadiene styrene copolymer)	
		V0 (UL94)		V0 (UL94)	
52002014		52008541			
86		90		94	

UCS universal housings for embedded systems

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



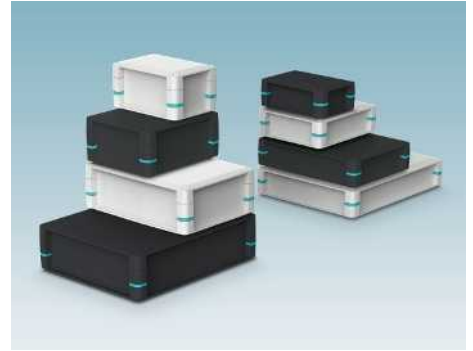
Your advantages



Integrated or flexible PCB mount for variable electronics solutions



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



Modular system for highest adaptivity and simple storage

Configure your product the way you want ¹⁾

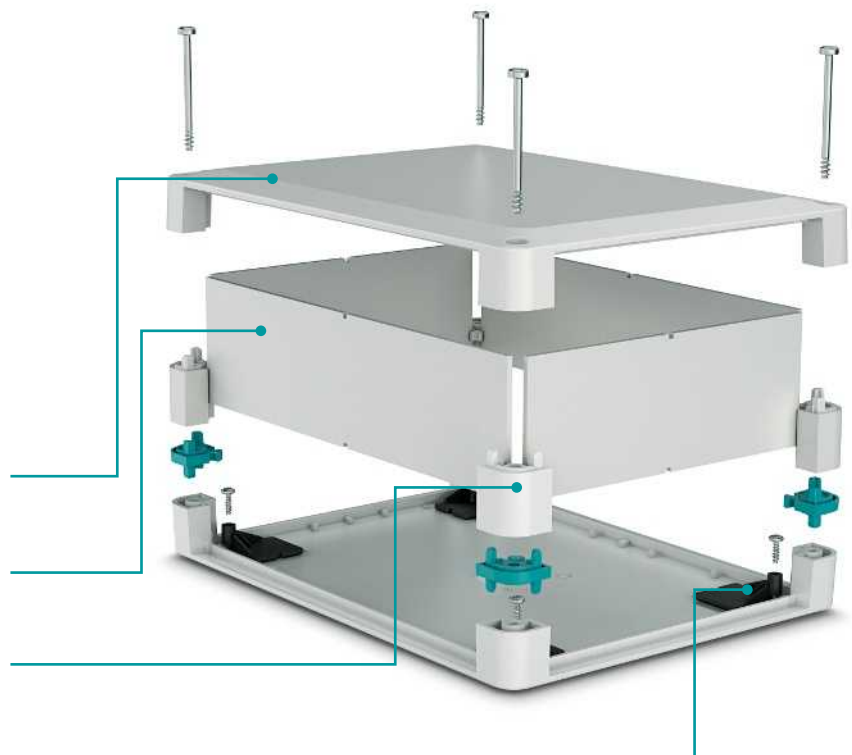
Version 1 (pp. 76 – 77)

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

or

Version 2 (pp. 78 – 79)

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



Go directly to the online configurator

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

i Web code: #0512

Housing color options (RAL color system):

7035 9005

Accessories:

7035 5018 9005

Other colors available on request.

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

¹⁾ The configuration overviews for this product range are to be found on pages 76 – 79.

UCS series (version 1) configuration overview

1 PCB mount / form factor		2 Complete housing			
					
		UCS 125-87-F-GD ...	UCS 125-87-H-GD ...	UCS 125-87-F-GD-RPI ...	
PCB mount	Form factor	Color	Depth 47 mm	Depth 67 mm	Depth 47 mm
Adhesive pad adds flexibility, suitable for the following form factors ¹⁾		Gray (RAL 7035)	2203328	2203331	1019724
		Black (RAL 9005)	2203329	2203330	1019723
	Raspberry Pi		•	•	•
	ETX				
	PC/104				
	Pico ITX				
	EPIC				
	Nano ITX				
	Mini DTX				
	Mini ITX				
	EBX				
PCB mount	Printed-circuit board		UCS 125-87-F-CCD ...	UCS 125-87-H-CCD ...	
Fixed in the housing corners for maximum PCB dimensions ²⁾		Color	Depth 47 mm	Depth 67 mm	
		Gray (RAL 7035)	2203443	2203445	
		Black (RAL 9005)	2203444	2203446	
	211.8 mm x 169.8 mm				
	169.8 mm x 120 mm				
	120 mm x 100 mm				
	100 mm x 62 mm		•	•	

3 Accessories						
	Basic wall bracket ³⁾	Order No.	Color	47 mm	67 mm	47 mm
	UCS WM-B 7035	2203718	Gray (RAL 7035)	•	•	•
	UCS WM-B 9005	2203719	Black (RAL 9005)	•	•	•
	UCS WM-B 5018	2203391	Turquoise blue (RAL 5018)	•	•	•
	Stand	Order No.	Color	47 mm	67 mm	47 mm
	UCS PED 7035	2203392	Gray (RAL 7035)	•		•
	UCS PED 9005	2203393	Black (RAL 9005)	•		•
	UCS PED 5018	2203394	Turquoise blue (RAL 5018)	•		•
	Collision protection corners	Order No.	Color	47 mm	67 mm	47 mm
	UCS CP 7035	2203346	Gray (RAL 7035)	•	•	•
	UCS CP 9005	2203347	Black (RAL 9005)	•	•	•
	UCS CP 5018	2203348	Turquoise blue (RAL 5018)	•	•	•
	Stack corners	Order No.	Color	47 mm	67 mm	47 mm
	UCS CS 7035	2203720	Gray (RAL 7035)	•	•	•
	UCS CS 9005	2203721	Black (RAL 9005)	•	•	•
	UCS CS 5018	1029039	Turquoise blue (RAL 5018)	•	•	•
	DIN rail adapter	Order No.	Color	47 mm	67 mm	47 mm
	UCS DIN 125-F 7035	2203838	Gray (RAL 7035)	•		•
	UCS DIN 125-H 7035	2203841	Gray (RAL 7035)		•	
	UCS DIN 145-F 7035	2203839	Gray (RAL 7035)			
	UCS DIN 145-H 7035	2203840	Gray (RAL 7035)			

¹⁾ PCB with above-listed form factors can usually be placed in the marked housings. As a rule, the next largest housing is also to be used so that additional PCBs can be integrated there. You have the option to mount other PCBs that do not depend on

form factor using a flexible PCB mount in the housing. Please be aware of the possibility to configure the housing using the online configurator. Enter the web code #0512 in the search field on our website at phoenixcontact.com.

						
UCS 145-125-F-GD ...	UCS 145-125-H-GD ...	UCS 145-125-F-GD-RPI	UCS 195-145-F-GD ...	UCS 195-145-H-GD ...	UCS 237-195-F-GD ...	UCS 237-195-H-GD ...
Depth 47 mm	Depth 67 mm	Depth 47 mm	Depth 47 mm	Depth 67 mm	Depth 47 mm	Depth 67 mm
2203332	2203334	1019749	2203336	2203338	2203341	2203344
2203333	2203335	1019720	2203337	2203340	2203343	2203345
		•				
•	•					
•	•					
•	•					
			•	•		
			•	•		
					•	•
					•	•
					•	•
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 47 mm	Depth 67 mm		Depth 47 mm	Depth 67 mm	Depth 47 mm	Depth 67 mm
2203447	2203450		2203453	2203454	2203455	2203457
2203448	2203451		2203441	2203442	2203456	2203458
					•	•
			•	•		
•	•					

47 mm	67 mm	47 mm	47 mm	67 mm	47 mm	67 mm
•	•	•	•	•	•	•
•	•	•	•	•	•	•
•	•	•	•	•	•	•
47 mm	67 mm	47 mm	47 mm	67 mm	47 mm	67 mm
•		•	•		•	
•		•	•		•	
•		•	•		•	
47 mm	67 mm	47 mm	47 mm	67 mm	47 mm	67 mm
•	•	•	•	•	•	•
•	•	•	•	•	•	•
•	•	•	•	•	•	•
47 mm	67 mm	47 mm	47 mm	67 mm	47 mm	67 mm
•	•	•	•	•	•	•
•	•	•	•	•	•	•
•	•	•	•	•	•	•
47 mm	67 mm	47 mm	47 mm	67 mm	47 mm	67 mm
•		•				
	•					
•		•	•			
	•			•		

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

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

UCS series (version 2) configuration overview

2 Side walls						
	Type	Length	Depth	Color		
				Gray; PC	Black; PC	Aluminum ²⁾
						
	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 tall side walls)			
	Description	Type	Order No.
	Corner height adapter, gray (set of 4 pieces incl. 4 longer screws in the PE bag)	UCS HAC 7035	2203399
	Corner height adapter, black (set of 4 pieces incl. 4 longer screws in the PE bag)	UCS HAC 9005	2203400

4 Corner inserts and accessories			
	4 gray corner inserts including screws, flat ¹⁾	UCS CC 7035	2203395
	4 black corner inserts including screws, flat ¹⁾	UCS CC 9005	2203396
	4 turquoise-blue corner inserts incl. screws, flat ¹⁾	UCS CC 5018	2203398
	4 gray corner inserts with screw boss, incl. screws, flat, and screws for mounting the PCB	UCS CCD 7035	2203479
	4 black corner inserts with screw boss, incl. screws, flat, and screws for mounting the PCB	UCS CCD 9005	2203477
	4 blue corner inserts with screw boss, incl. screws, flat, and screws for mounting the PCB	UCS CCD 5015	1056065
	4 turquoise-blue corner inserts with screw boss, incl. screws, flat, and screws for mounting the PCB	UCS CCD 5018	2203404
	Screw set, flat (4 pieces for housing halves)	UCS SF 3,5X20	2203402
	Screw set, tall (4 pieces for housing halves)	UCS SH 3,5X40	2203403
	4 adhesive pads incl. screws for mounting the PCB	UCS GD 9005	2203401

¹⁾ Adhesive pads are required for fastening the PCB ([2203401](#))

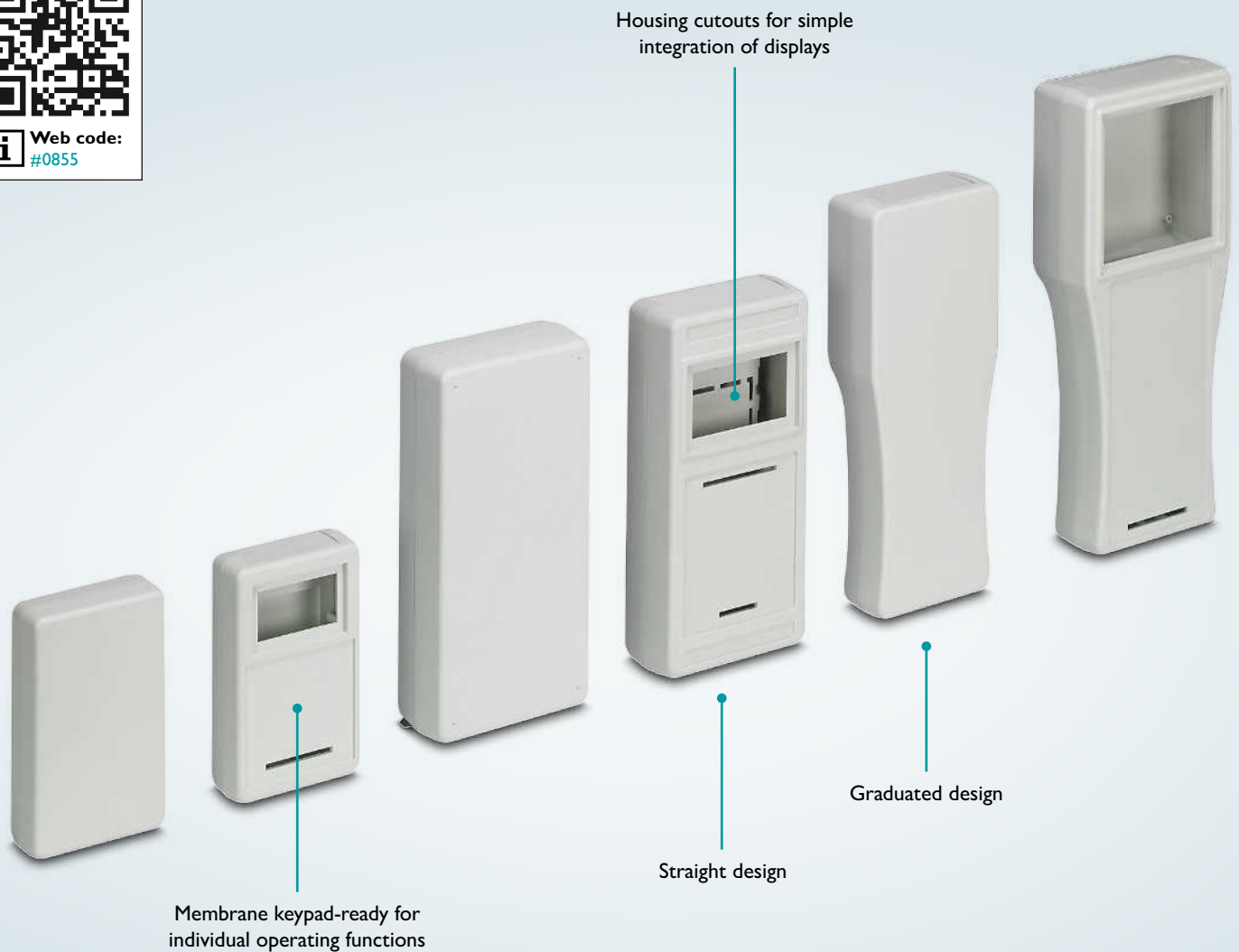
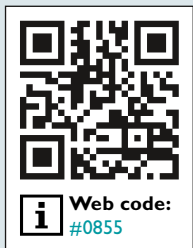
²⁾ Anodized

1



HCS handheld housings for portable devices

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



Housing cutouts for simple
integration of displays

Graduated design

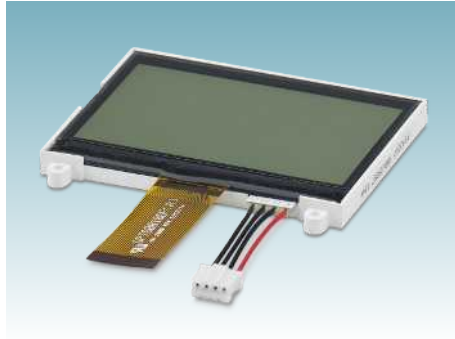
Straight design

Membrane keypad-ready for
individual operating functions

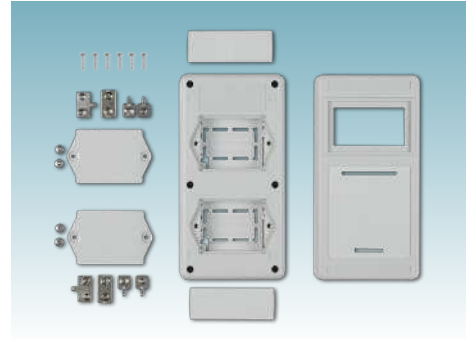
Your advantages



Perfect membrane keypads, available even with custom specifications



Easy integration of displays



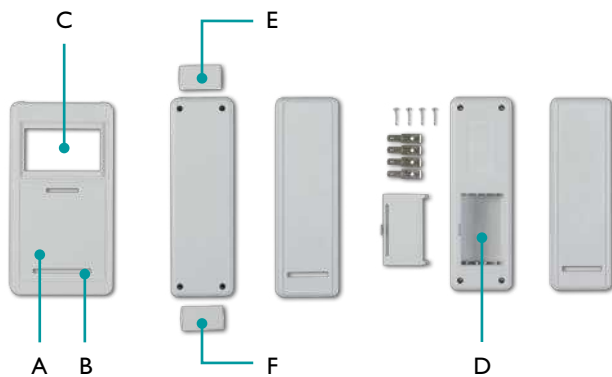
Standard versions for different device interfaces and for power supply

Configure your product the way you want ¹⁾

1 Select housing size



2 Specify the version/type



Go directly to the online configurator

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

i Web code: #0512

Housing color options (RAL color system):

■ 7035

Other colors available on request.

¹⁾ The configuration overviews for this product range are to be found on pages 82 – 85.

HCS series configuration overview: Housings

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

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

HCS series configuration overview: Accessories

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

¹⁾ For technical data, see page 102

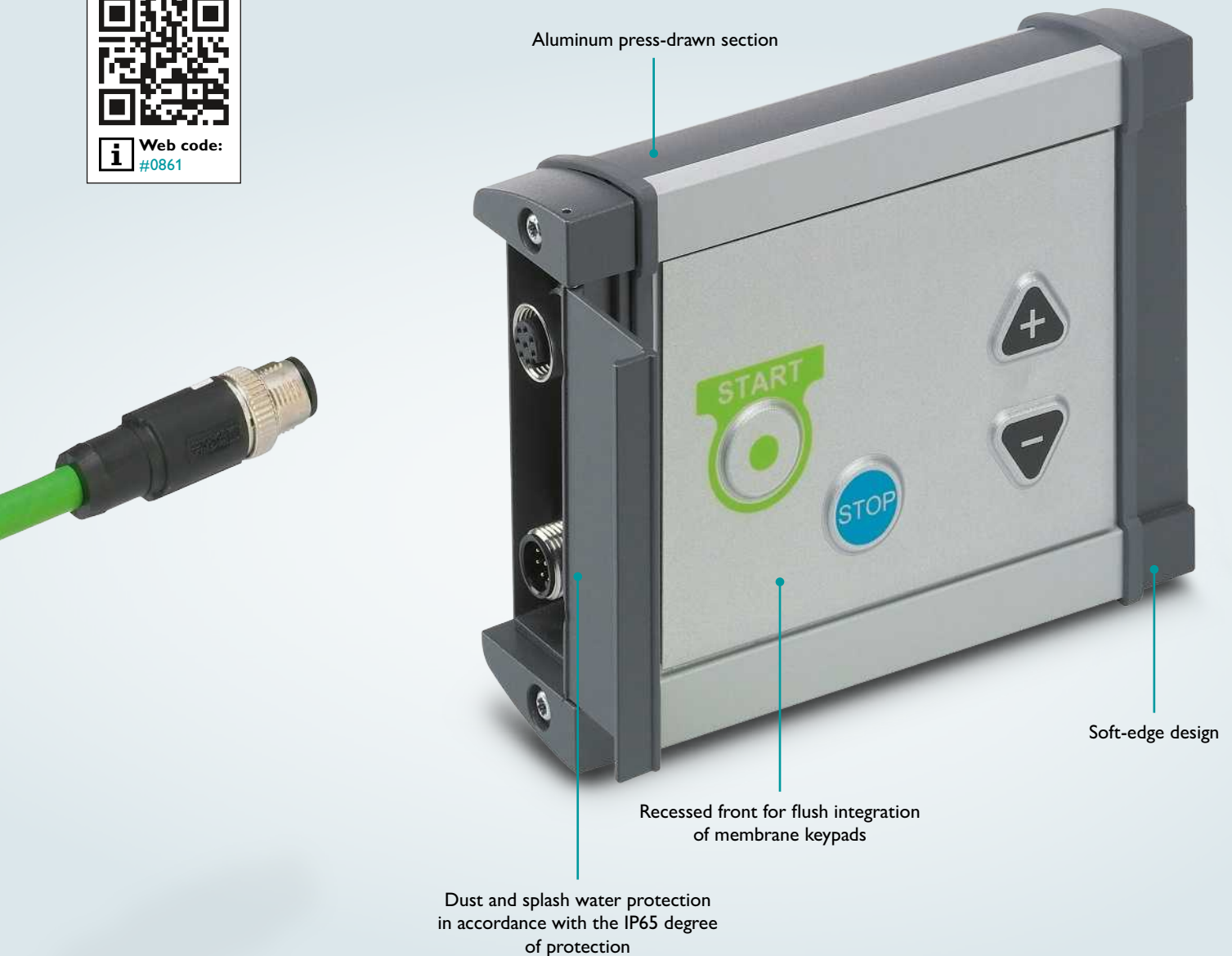
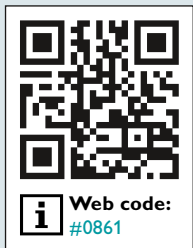
²⁾ For technical data, see page 103

³⁾ For housing without battery compartment

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

HC-ALU profile housings for mobile applications

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



Your advantages



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

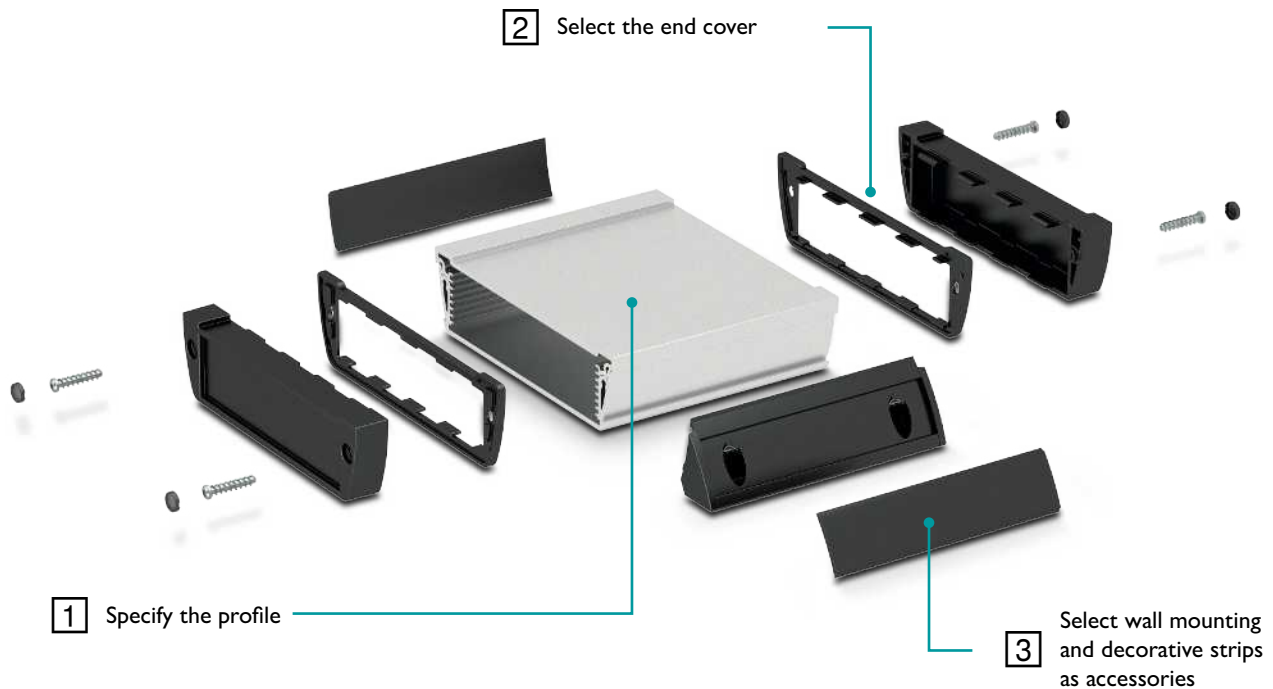


Versatile deployability, thanks to the integration of displays or custom membrane keypads as well as a front plate



Wall mounting for stationary applications

Configure your product the way you want ¹⁾



Go directly to the online configurator

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

i Web code: #0512

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

¹⁾ The configuration overviews for this product range are to be found on pages 88 – 89.

HC-ALU series configuration overview

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

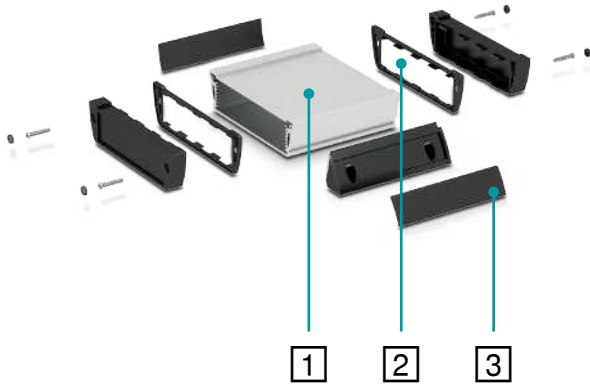
1 Aluminum profile, 2-piece

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

2 End cover

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

Configure your product the way you want



Go directly to the online configurator

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

i Web code: [#0512](#)

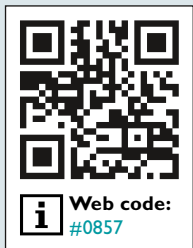
3 Accessories

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

M12 flush-type connectors and cables are found on our website at phoenixcontact.com.

ECS outdoor housings for harsh conditions

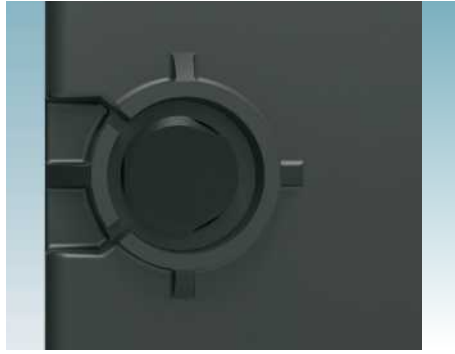
Robust outdoor housings from the ECS series are the ideal solution for protecting sensitive electronics used in indoor and outdoor applications from dust, dirt, and water. Thanks to the IP65 to IP69 degrees of protection and a wide temperature range of -40°C to +100°C, the housings are ideal for challenging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



Your advantages



Integrated interlock to protect against unintentional release of the PCB



Optional pressure compensation membrane for vented housing designs

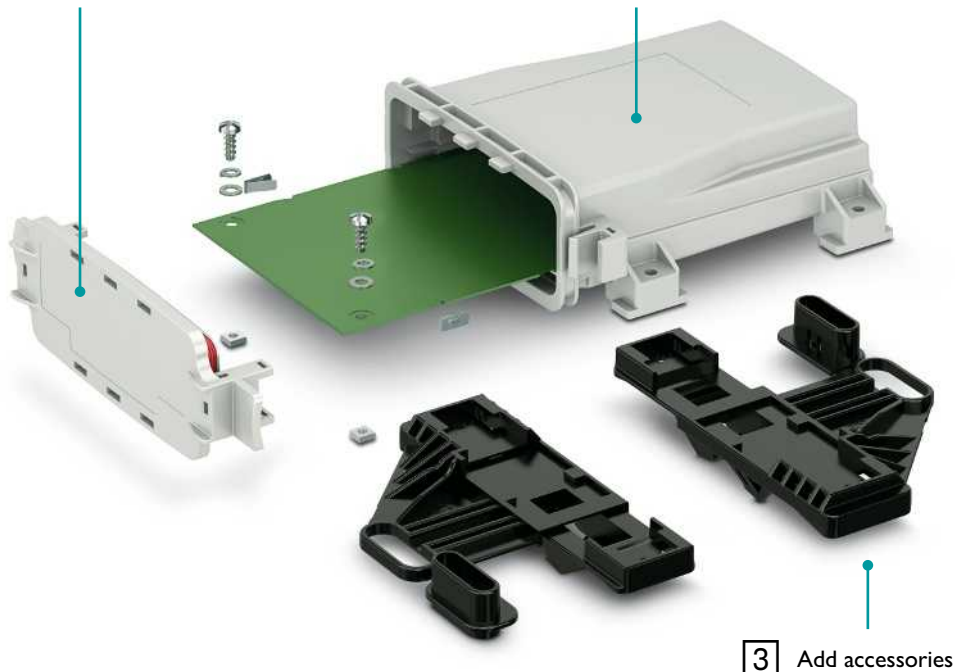


Protection against tampering, thanks to a simple lead seal

Configure your product the way you want ¹⁾

2 Choose the front plate

1 Specify the housing



3 Add accessories

Go directly to the online configurator

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

i Web code: #0512

Housing color options (RAL color system):

■ 9005 ■ 7042

Other colors available on request.

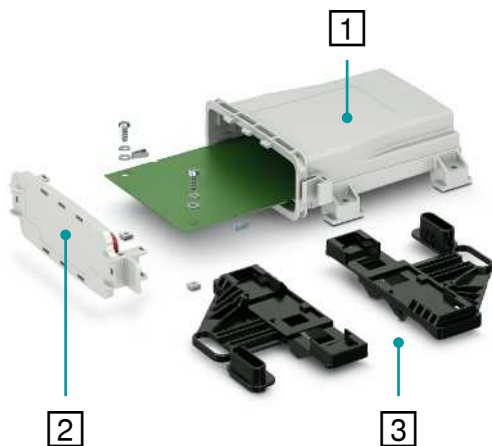
Test the ECS series and contact your sales contact person (sample set: 52008541).

¹⁾ The configuration overviews for this product range are to be found on pages 92 – 93.

ECS series configuration overview

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

Configure your product the way you want



Go directly to the online configurator

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

i Web code: [#0512](#)

¹⁾ Integrated pressure compensation membrane

2 Front plate

Design	Size (W x H x D)	Connection	Color	Order No.	Type
Snap-in locking	196 mm x 34 mm x 62 mm	Without	Black Gray	2230004 1050386	ECS-P-122X169-L-UV1-B ECS-P-122X169-L-UV-B GY
		1x M12 nut	Black Gray	2230005 1050385	ECS-P-122X169-L-UV1-1M12 ECS-P-122X169-L-UV-1M12 GY
		2x M12 nuts	Black Gray	2230006 1050384	ECS-P-122X169-L-UV1-2M12 ECS-P-122X169-L-UV-2M12 GY
		Cable gland M20x1.5 (6 ... 12 mm)	Black Gray	2230007 1050383	ECS-P-122X169-L-UV1-CG ECS-P-122X169-L-UV-CG GY
Screw locking	163 mm x 30 mm x 62 mm	Without	Black Gray	2230008 1050382	ECS-P-122X169-S-UV1-B ECS-P-122X169-S-UV-B GY
		1x M12 nut	Black Gray	2230009 1050381	ECS-P-122X169-S-UV1-1M12 ECS-P-122X169-S-UV-1M12 GY
		2x M12 nuts	Black Gray	2230010 1050379	ECS-P-122X169-S-UV1-2M12 ECS-P-122X169-S-UV-2M12 GY
		Cable gland M20x1.5 (6 ... 12 mm)	Black Gray	2230011 1050380	ECS-P-122X169-S-UV1-CG ECS-P-122X169-S-UV-CG GY

3 Accessories

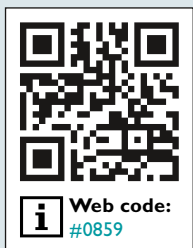
Description	Order No.	Type
PCB safety clip (2 pcs.)	2230012	ECS-BL
Mounting set for mast mounting (2 pcs.)	2230013	ECS-PM
Demo PCB (160 x 121 mm)	1004300	ECS-PCB
Screwdriver, Torx® with bore hole TX 20 x 100	1200151	SF-TXH 20X100
Stainless steel 1.4401 tamper protection (cable ties)	3240820	WT-STEEL SH 4,6X150
Signal light, RGB, 5 mm	1082299	HS LCA-RGB-10X5-L
Male connectors for signal lamp, 4-pos., 2.5 mm pitch	1709460	PTSM 0,5/ 4-PL-2,5 WH
Light guide, rigid, transparent, 5.2 mm	1082300	HS LC-V-T-D4X5,2-45
Light guide with lens, transparent, 6 mm	1082301	HS LC-F-T-6X3-150

Connection technology

Please use the web code [#0205](#) on our website at phoenixcontact.com to display the product list of possible contact inserts.

DCS display carrier system for industrial applications

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



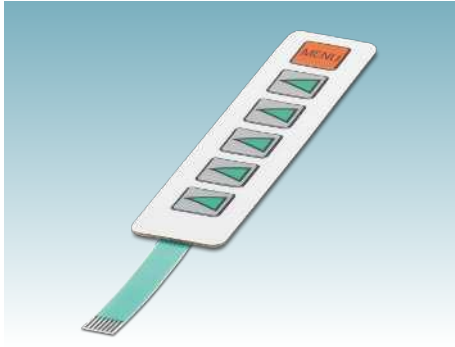
Housing cutouts for
displays in sizes
5.7", 7", and 15"

Wall mount in accordance with
VESA standard or with optional
bracket (5.7"; 7")

Space for optional membrane keypads

Connection technology for signals, data, and power
according to individualized specifications

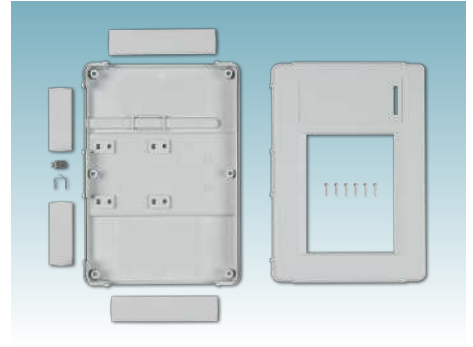
Your advantages



Perfect membrane keypads, available even with custom specifications



Easy integration of displays, thanks to coordinated mounting kits



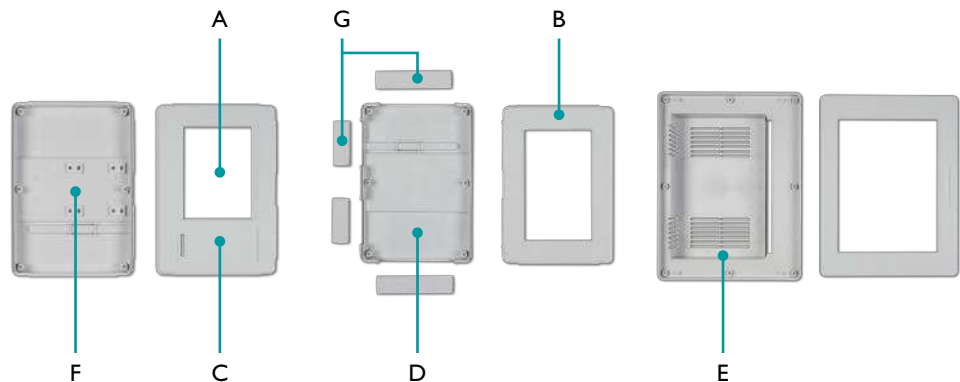
Standard versions for different device interfaces

Configure your product the way you want ¹⁾

1 Select the display size



2 Specify design



Go directly to the online configurator

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

i Web code: **#0512**

Housing color options (RAL color system):

■ 7035

Other colors available on request.

¹⁾ The configuration overviews for this product range are to be found on pages 96 – 97.

DCS series configuration overview

1 Housing			2 Version/type				
			Front side				
			A	B	C		
Display size	Width (w) x Height (h) x Depth (d)	Window Width x Depth	Window position	Surface area	Membrane keypad/ position		
5.7"	224 mm x 157 mm x 40 mm	118 mm x 88 mm	Center	Level			
				Recessed 1.1 mm	Right & left		
			Left			Right	
7.0"	224 mm x 157 mm x 40 mm	154.4 mm x 93.4 mm	Center	Level			
15"	362 mm x 286 mm x 62 mm	306 mm x 230 mm					

3 Accessories							
							
Type/Order No.	Order No.	Membrane keypad ²⁾	IP54 seal kit (IEC/EN 60529)	Display ¹⁾	Set for mounting display in housing	Seal for display	Acrylic glass pane satinized for display
DCS 5,7 M C O C 1 7035	2203172		2203584	2203549	2203829	2203749	2203595
DCS 5,7 M C O BP C 7035	2203173						
DCS 5,7 M 1F RL W C 7035	2203174	2203572					
DCS 5,7 L 1F R BP 1 7035	2203175						
DCS 5,7 L 1F R W C 7035	2203176						
DCS 7 M C O C 1 7035	2203183		2203584	2203551	2203830	2203749	2203596
DCS 7 M C O BP C 7035	2203184						
DCS 15 M C O C C 7035	2203189		2203586	2203553	2203831	2203749	2203598
DCS 15 M C O SLV C 7035	2203190						
DCS 15 M C O S C 7035	2203191						

¹⁾ For technical data, see page 102

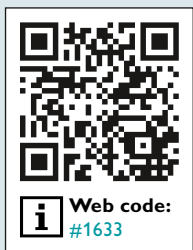
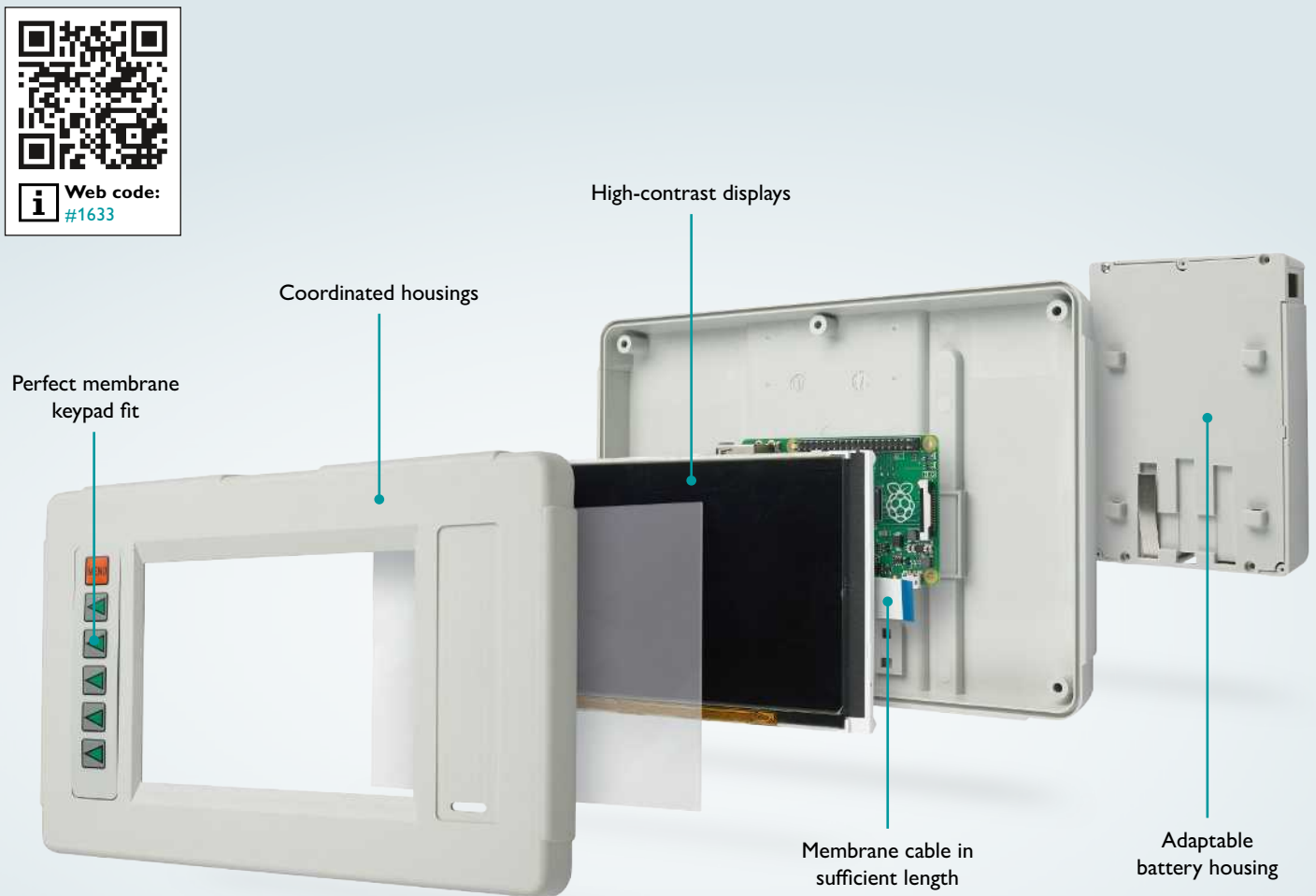
²⁾ For technical data, see page 103

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

							
Angle plate for connection technology	Adaptable battery housing	Wall mount	Housing bracket	Terminal board VESA 100/75	Wall bracket	Profile bracket	SF-PH 0 screwdriver
	2203751	2203752					1212558
	2203751	2203752					
	2203751	2203752					
2203750			1082302	1082303	1082304	1082305	

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.



Accessories for electronics housings



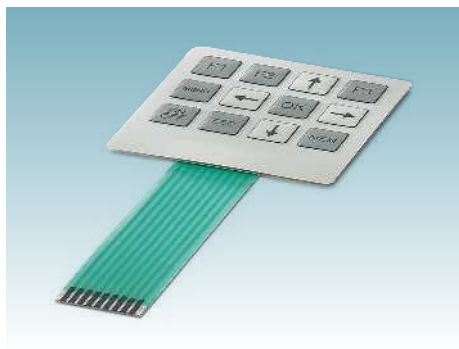
UTA DIN rail adapters



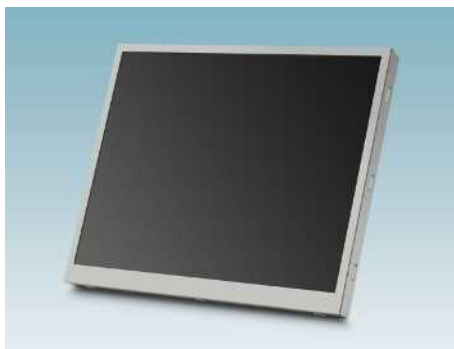
Light guides for status and diagnostic indicators



Metal and plastic base latches



Membrane keypads



TFT displays



Display holders in different color versions

Accessories for electronics housings

UTA DIN rail adapters

 Web code: #1637

						
Type	UTA 89	UTA 107	UTA 130	UTA 136	UTA 159	UTA 184
Order 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

Base latch

 Web code: #2081

							
Type		UM-ALU 4 FOOT	ME MF 17,5	ME-IO 18,8 FOOT CATCH KIT	ME MF 12,5	FUSSRIEGEL 14,4 L30 SPERR OG	EH SNAPLOCK SET WALL MOUNT OG
Order No.		2200974	2908281	2201812	2707466	2896998	2202007
Housing use		UM-ALU...	ME...UT (≥17.5) ME-MAX...(≥17.5)	ME-IO...B	ME 12,5 UT ME-MAX 12,5	BC ... UT	EH...B
Material		Polyamide	Steel with tin coating	Steel with tin coating	Steel with tin coating	Polyoxymethylene	Polyoxymethylene
Dimensions	Width [mm]	33.4	28.4	17.5	12.5	14.4	28.8
	Height [mm]	20.2	30	35.5	30	29.8	18.7
	Depth [mm]	7.9	6.5	6.5	6.5	5.9	4.15
Temperature range for operation [°C]		-40 ... +100	-40 ... +100	-40 ... +100	-40 ... +100	-40 ... +100	-40 ... +100
Pcs./Pkt.		5	50	100	50	20	50

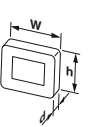
Light guide

i Web code: #1638

Series	Order No.	Type	Display size	Number of displays	Pitch	Recommended housing use
	2202311	HS LC-V-D3/ R2xC1-5,08	ø 3 mm	2 (2 rows x 1 column)	5.08 mm	BC 35,6 ... BC 161,6
	2202312	HS LC-V-D3/ R3xC1-5,08	ø 3 mm	3 (3 rows x 1 column)	5.08 mm	BC 35,6 ... BC 161,6
	2202313	HS LC-H-D3/ R1xC1	ø 3 mm	1 (1 row x 1 column)		EH, ME, ME-MAX, ME-IO, ME-PLC, BC 17,8
	2202314	HS LC-H-5x2/ R1xC1	5 x 2 mm	1 (1 row x 1 column)		EH, ME, ME-MAX, ME-IO, ME-PLC, BC 17,8
	2202315	HS LC-H-D3/ R2xC1-5,08	ø 3 mm	2 (2 rows x 1 column)	2.54 mm	EH, ME, ME-MAX, ME-IO, ME-PLC, BC 17,8
	2202316	HS LC-H-D2/ R2xC1-2,54	ø 2 mm	2 (2 rows x 1 column)	2.54 mm	EH, ME, ME-MAX, ME-IO, ME-PLC, BC 17,8
	1036658	HS LC-H-D2C/ R2xC1-2,54 ¹⁾				
	2202317	HS LC-H-D2/ R2xC2-2,54	ø 2 mm	4 (2 rows x 2 columns)	2.54 mm	EH, ME, ME-MAX, ME-IO, ME-PLC, BC 17,8
	1043044	HS LC-H-D2C/ R2XC2-2,54 ¹⁾				
	2202318	HS LC-H-D2/ R2xC5-2,54	ø 2 mm	10 (2 rows x 5 columns)	2.54 mm	EH, ME, ME-MAX, ME-IO, ME-PLC, BC 17,8
	1071310	HS LC-H-D2C/ R2XC5-2,54 ¹⁾				
	2202319	HS LC-H-D2/ R2xC10-2,54	ø 2 mm	20 (2 rows x 10 columns)	2.54 mm	EH, ME, ME-MAX, ME-IO, ME-PLC, BC 17,8, UCS
	1071314	HS LC-H-D2C/ R2XC10-2,54 ¹⁾				
	2202320	HS LC-H-D2/ R4xC2-2,54	ø 2 mm	8 (4 rows x 2 columns)	2.54 mm	EH, ME, ME-MAX, ME-IO, ME-PLC
	1071316	HS LC-H-D2C/ R4XC2-2,54 ¹⁾				
	2202321	HS LC-H-D2/ R4xC5-2,54	ø 2 mm	20 (4 rows x 5 columns)	2.54 mm	EH, ME, ME-MAX, ME-IO, ME-PLC
	1071318	HS LC-H-D2C/ R4XC5-2,54 ¹⁾				
	2202322	HS LC-H-D2/ R4xC9-2,54	ø 2 mm	36 (4 rows x 9 columns)	2.54 mm	EH, ME, ME-MAX, ME-IO, ME-PLC
	1071321	HS LC-H-D2C/ R4XC9-2,54 ¹⁾				
	2202323	HS LC-H-D2/ R4xC10-2,54	ø 2 mm	40 (4 rows x 10 columns)	2.54 mm	EH, ME, ME-MAX, ME-IO, ME-PLC
	1071329	HS LC-H-D2C/ R4XC10-2,54 ¹⁾				
	1082299	HS LCA-RGB-10X5-L	ø 5 mm	1 (active, RGB)	-	ECS
	1082300	HS LC-V-T-D4X5,2-45	ø 5.2 mm, spherical	1	-	ECS
	1082301	HS LC-F-T-6X3-150	ø 6 mm, lens	1 (stranded)	-	ECS

¹⁾ Conical design

Accessories for electronics housings

Displays  Web code: #1639								
								
Order No.	2203537	2203539	2203538	2203543	2203547	2203549	2203551	2203553
Type	DFC T 2,4 QVGA S 7035	DFC T 2,4 QVGA S 5015	DFC T 2,4 QVGA S 1018	D L 2,8 64X 8	D L 4,6 128X P	D L 5,7 QVGA P	D T 7,0 WVGA P	D T 15,0 XGA L
Diagonal	2.4"	2.4"	2.4"	2.8"	4.6"	5.7"	7.0"	15.0"
Resolution	240 x 320	240 x 320	240 x 320	128 x 64	128 x 128	320 x 240	800 x 480	1024 x 768
Technology	TFT	TFT	TFT	LCD FSTN transflective	LCD FSTN transflective	LCD FSTN transmissive	TFT	TFT
Interface	SPI	SPI	SPI	8-bit	Parallel	Parallel	Parallel	LVDS 6-bit
Recommended housing use	ME-IO, ME	ME-IO, ME	ME-IO, ME	HCS-T MINI, HCS-C MINI-P, HCS-C MEDIUM, HCS-C MAXI, HCS-T MEDIUM		DCS 5,7	DCS 7,0	DCS 15,0
Temperature range for operation [°C]	-20 ... +70	-20 ... +70	-20 ... +70	-20 ... +70	-20 ... +70	-20 ... +70	-20 ... +70	-20 ... +70
Temperature range for storage [°C]	-30 ... +80	-30 ... +80	-30 ... +80	-30 ... +80	-30 ... +80	-30 ... +80	-30 ... +80	-30 ... +80
 Mounting plate dimensions	Width [mm]	71.5	71.5	71.5	70.2	88.2	143	164.9
	Depth [mm]	7.8	7.8	7.8	49	4.8	8.8	5.7
	Height [mm]	59.2	59.2	59.2	5.2	79	103	100
Active range	Width [mm]	48.96	48.96	48.96	59.5	62.7	115.2	154.1
	Height [mm]	36.72	36.72	36.72	29.73	62.7	86.4	85.9
Brightness [cd/m²]	220	220	220	450	120	200	300	450
Mounting	No other parts needed	No other parts needed	No other parts needed	Screws and sleeves	Screws and sleeves	Mounting plate and screws	Mounting plate and screws	Mounting plate and screws

Membrane keypads

i Web code: #1640

									
Order No.		2203566	2203567	2203568	2203569	2203570	2203571	2203572	2203574
Type		KP HCS C-MIN-P K12 C3 P9	KP HCS T-MIC K12 C3 P9	KP HCS C-MED K16 C3 P8	KP HCS T-MIN K21 C3 P14	KP HCS T-MED K28 C4 P13	KP HCS T-MAX K45 C4 P16	KP DCS 4,8-6,4 K6 C4 P7	KP HC-ALU 100 K4 C4 P6
Number of keys / colors		12 keys, 3 colors	12 keys, 3 colors	16 keys, 3 colors	21 keys, 3 colors, LCD cutout 128x64	28 keys, 4 colors	45 keys, 4 colors	6 keys, 4 colors	4 keys, 4 colors
Dimen- sions	Width [mm]	70.4	37.6	72.6	78/55	63.5	144	22.6	95
	Height [mm]	69.2	139.6	79.6	173	115.8	78	103.4	72
Membrane cable pitch [mm]		Socket 2.54	Socket 2.54	Socket 2.54	Socket 2.54	Socket 2.54	Socket 2.54	1.0	1.0
Length of membrane cable [mm]		100.5	88.5	62	59	124	77	50	47.3
Recommended housing use		HCS-C MINI-P	HCS-T MICRO	HCS-C MEDIUM	HCS-T MINI	HCS-T MEDIUM	HCS-C MAXI, HCS-T MAXI	DCS 5,7	UM-ALU, HC-ALU
Connection		9-pos.	9-pos.	8-pos.	14-pos.	13-pos.	16-pos.	7-pos.	6-pos.
Technology		Silver conductive	Silver conductive	Silver conductive	Silver conductive	Silver conductive	Silver conductive	Silver conductive	Silver conductive
Mounting		Self-adhesive	Self-adhesive	Self-adhesive	Self-adhesive	Self-adhesive	Self-adhesive	Self-adhesive	Self-adhesive
Embossing		Dome embossing 11 x 11 mm	Dome embossing 10 x 10 mm	Dome embossing 11 x 11 mm	Dome embossing 11 x 11 mm	Dome embossing 11 x 11 mm	Dome embossing 11 x 11 mm	Dome embossing 11 x 11 mm	
Switching cycles		1 million	1 million	1 million	1 million	1 million	1 million	1 million	1 million
Temperature range for storage [°C]		-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80
Temperature range for operation [°C]		-20 ... +70	-20 ... +70	-20 ... +70	-20 ... +70	-20 ... +70	-20 ... +70	-20 ... +70	-20 ... +70

1 BC 107,6 DEV-KIT

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

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

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

3 ME-PLC 40 DEV-KIT

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

4 EH 45 FLAT DEV-KIT

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

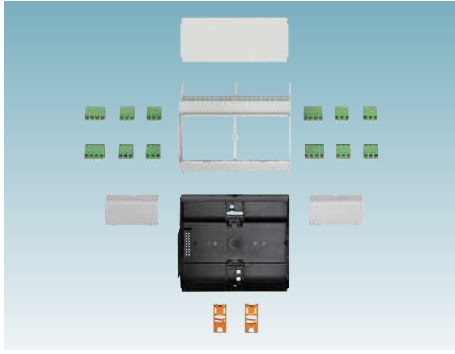
5 ME-IO 18,8 DEV-KIT

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

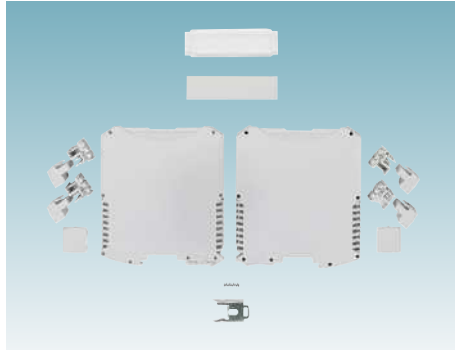
6 UM-BASIC 108 100MM DEV-KIT

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

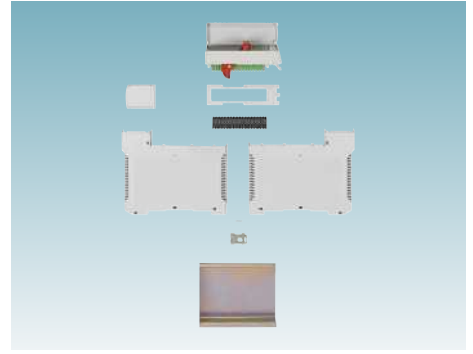
Development kits for prototype building and short-run production¹⁾



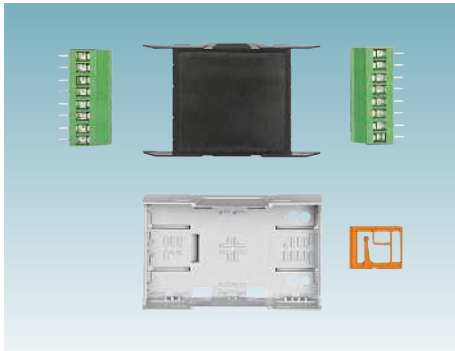
1 BC 107,6 DEV-KIT



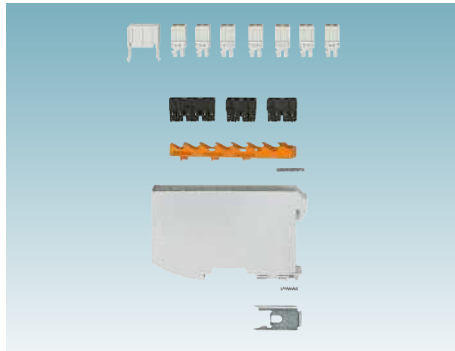
2 ME-MAX 22,5 2-2 DEV-KIT



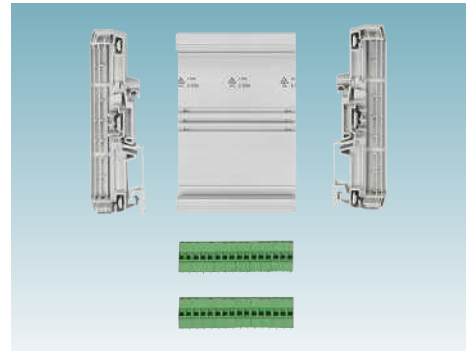
3 ME-PLC 40 DEV-KIT



4 EH 45 FLAT DEV-KIT



5 ME-IO 18,8 DEV-KIT



6 UM-BASIC 108 100MM DEV-KIT

¹⁾ PCB with hole pattern

Development kit contains housing and connection technology for an operational module
Specific bus connectors available

Services for customizing your housings

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



Your options for customization



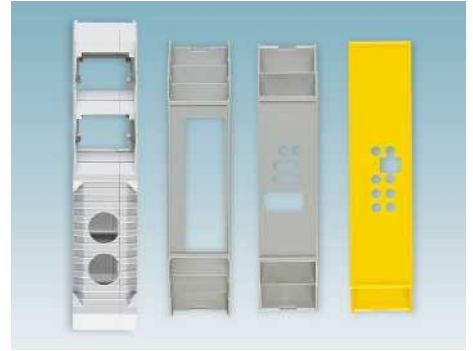
Many color versions

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



Mechanical processing

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



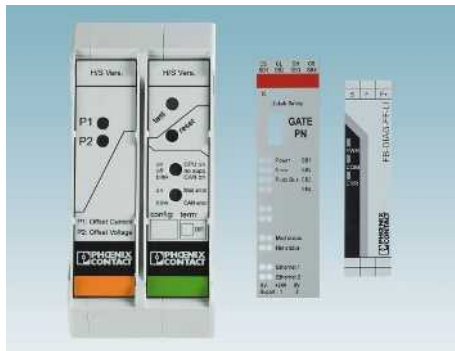
Tool modification

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



Pad printing

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



Screen printing

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



Laser marking

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

New customer-specific product developments

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



Your advantages

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

The path to your new customer-specific development



Concept development

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



Design

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



Production setup

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



Quality assurance

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



Series production

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

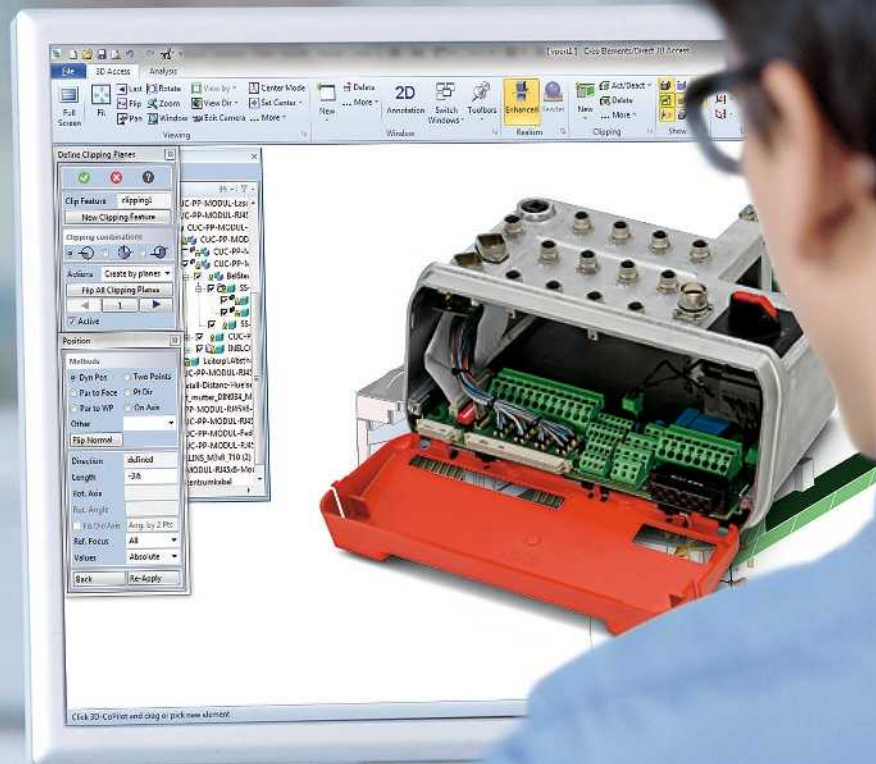


Logistics

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

Profound 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 quality and delivery reliability. Take advantage of our years of expertise. Whether it's 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 a ferrule: we have the solution for every requirement.



Contact technology

Whether it's for signals, data, high power, or use in harsh environments – we have the right contacts.



Metal housings, die-casting technology

Metal housings prove their worth in industrial applications, thanks to their robustness and excellent shielding.



Plastics technology

Choose from a large variety of plastic materials and colors. We assist you with selecting the plastic.



Injection-molding production

Our injection-molding technology offers you nearly limitless design options for surfaces. Even small quantities are lucrative for you.



IP protection

Whether it's molded solutions or molds for outdoor applications: our seal systems also meet 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 up to 100 percent completion – 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.

In dialog with customers and partners worldwide

Phoenix Contact is a globally present, Germany-based market leader. Our group is synonym for future-oriented components, systems, and solutions in the fields of electrical engineering, electronics, and automation. A global network across more than 100 countries, and 16,500 employees ensure a close proximity to our customers, which we believe is particularly important.

The wide variety of our innovative products makes it easy for our customers to find future-oriented solutions for different applications and industries. We especially focus on the fields of energy, infrastructure, process and factory automation.



You will find our complete product range at:
phoenixcontact.com

PHOENIX CONTACT GmbH & Co. KG
Flachmarktstraße 8
32825 Blomberg, Germany
Phone: +49 52 35 3-00
Fax: +49 52 35 3-4 12 00
E-mail: info@phoenixcontact.com
phoenixcontact.com