



Electronics housings

Product overview 2018/2019

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.



i Web code:
#0514



Field housings

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

DIN rail housings

- Comprehensive standard housing range for DIN rail mounting
- Universal or permanently integrated connection technology
- Numerous variations, thanks to customized printing and processing options of the entire product range
- Customized new developments for your device ideas



Find out more with the web code

You will find web codes in this brochure: a pound sign followed by a four-digit number combination.

i Web code: #1234 (example)

This allows you to access information on our website quickly.

It could not be simpler:

1. Go to the Phoenix Contact website
2. Enter # and the number combination in the search field
3. Receive more information and product versions

Or use the direct link:

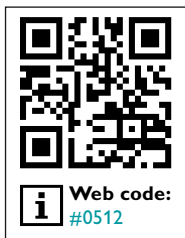
phoenixcontact.net/webcode/#1234

Contents

| | |
|--|-----|
| Interactive online configurator for electronics housings | 4 |
| Basic housings | |
| EH series | 8 |
| Modular housings | |
| ICS series | 14 |
| ME series | 18 |
| ME-MAX series | 26 |
| Multifunctional housings | |
| ME-IO series | 34 |
| ME-PLC series | 40 |
| Building installation housings | |
| BC series | 44 |
| Housings for Raspberry Pi applications | |
| RPI-BC | 52 |
| Press-drawn section housings | |
| UM-BASIC series, UM-PRO series | 56 |
| UM-ALU series | 62 |
| Universal housings | |
| UCS series | 68 |
| Handheld housings | |
| HCS series | 74 |
| Profile housings | |
| HC-ALU series | 80 |
| Outdoor housings | |
| ECS series | 84 |
| Display holders | |
| DCS series | 88 |
| HMI component and accessories | 92 |
| Customer-specific electronics housings | 102 |

Interactive online configurator for electronics housings


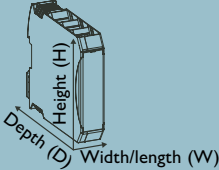
Intelligent combinatorics, interactive component selection, and real-time visualization in 3D: put together your electronics housings in just a few steps with the new online configurator. Simply select the desired housing series and size, add the appropriate connection technology, and you are done.









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 parts list 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

Overview of DIN rail housings

| | | Modular housings | | | Basic housings |
|---------------------------------|--|---------------------------------|--|--|---|
| | | New | | | |
| |  Web code: | #1636 | #0305 | #0306 | #0387 |
| | Sample set | 1047838 | 52005214 | 52005224 | 52006670 |
| Housing series | | ICS | ME | ME-MAX | EH |
| Mounting | On DIN rail (NS) DIN EN 60715 | NS35 | NS35 | NS35 | NS35 |
| Temperature range for operation | [°C] | -40 ... +105 | -40 ... +105 | -40 ... +105 | -40 ... +80 |
| Degree of protection | In accordance with DIN EN 60529 | IP20 | IP20 | IP20 | IP20 |
| Dimensions |  | | | | |
| | Width [mm] | 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 | 22.5/35/45/52.5/67.5 70/90 |
| | Length [mm] | | | | |
| | Depth [mm] | 87.5/110/132.5 | 92/106/114.5 | 70.4/92/114.5 | 53.5/110.5 |
| | Height [mm] | 77.5/100/122.5 | 99 | 85/99 | 75.4 |
| PCB surface | Max. usable surface [mm ²] | 3500 ... 22000 | 2000 ... 6600 | 3400 ... 8500 | 5600 ... 7200 |
| Power dissipation | Max. dissipated power [W] in direct apposition | 5.2 ... 10.4 | 5.2 ... 10.4 | 5.2 ... 8.2 | 4.4 ... 10.4 |
| PCB connection | Max. number of positions for 3.5 mm pitch | | 5 ... 40 | 18 ... 120 | 5 ... 21 |
| | Max. number of positions for 5.0 mm pitch | 4 ... 40 | 4 ... 32 | 8 ... 96 | 4 ... 17 |
| | Max. number of positions for 7.25 mm and 7.5 mm pitch | | 3 ... 24 | 12 ... 72 | |
| Bus connector | Type | DIN rail connector | DIN rail connector ¹⁾ Integrated cross connector ²⁾ | DIN rail connector ¹⁾ Power bus connector (PCO) ³⁾ | |
| | Type | TBUS8 20 / TBUS8 25 | ME 17,5 TBUS ¹⁾ ME 22,5 TBUS ¹⁾ | ME 6,2 TBUS ¹⁾ ME 17,5 TBUS ¹⁾ ME 22,5 TBUS ¹⁾ PBR ³⁾ | |
| | Number of positions | 8 | 5 ¹⁾ 5 ²⁾ / 10 ²⁾ | 5 ¹⁾ 2 ³⁾ | |
| | Current carrying capacity (depends on the derating) | Max. 8 x 6 A, <30V | 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 | PA (polyamide) | PA (polyamide) | PA (polyamide) | ABS/ABS PC blend (acrylonitrile butadiene styrene) |
| | Flammability rating | V0 (UL94) | V0 (UL94) | V0 (UL94) | HB/V0 (UL94) |
| Grounding (optional) | Type | Functional earth grounding (FE) | Functional earth grounding (FE) | Functional earth grounding (FE) | |

| Multifunctional housings | | Building installation housings | | Press-drawn section housings | |
|--|---|---|---|---|---|
|  |  |  |  |  |  |
| #0308 | #0309 | #0311 | #0664 | #0313 | #0315 |
| 52005220 | 52003927 | 52005225 | 52007812 | 52005309 | 52002012 |
| ME-IO | ME-PLC | BC | RPI-BC | UM-BASIC/UM-PRO | UM-ALU |
| 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 | 75/100.5 |
| 77 | 159 | 62.2 | 62.2 | 30 ... 1000 | 42.5/60/95/130 165/200/235/990 |
| 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 connector | DIN rail connector (only with TS105) | DIN rail connector | DIN rail connector | 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) | | | | Protective earth (PE) | Protective earth (PE) |

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

²⁾ All information pertains to the integrated cross connector

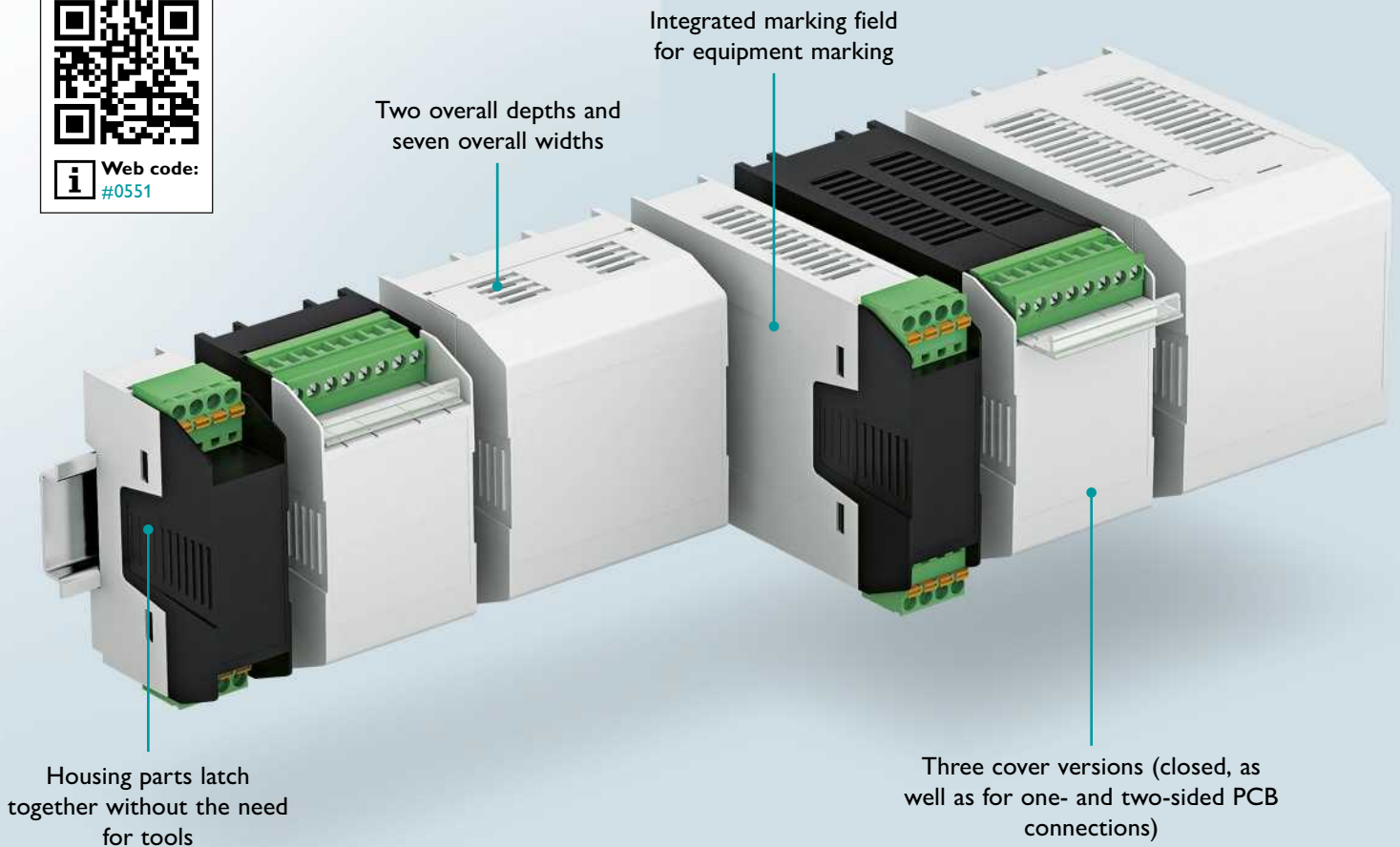
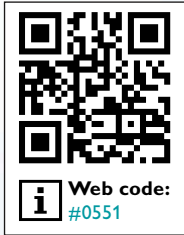
³⁾ PBR power connector with PCO connection technology

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

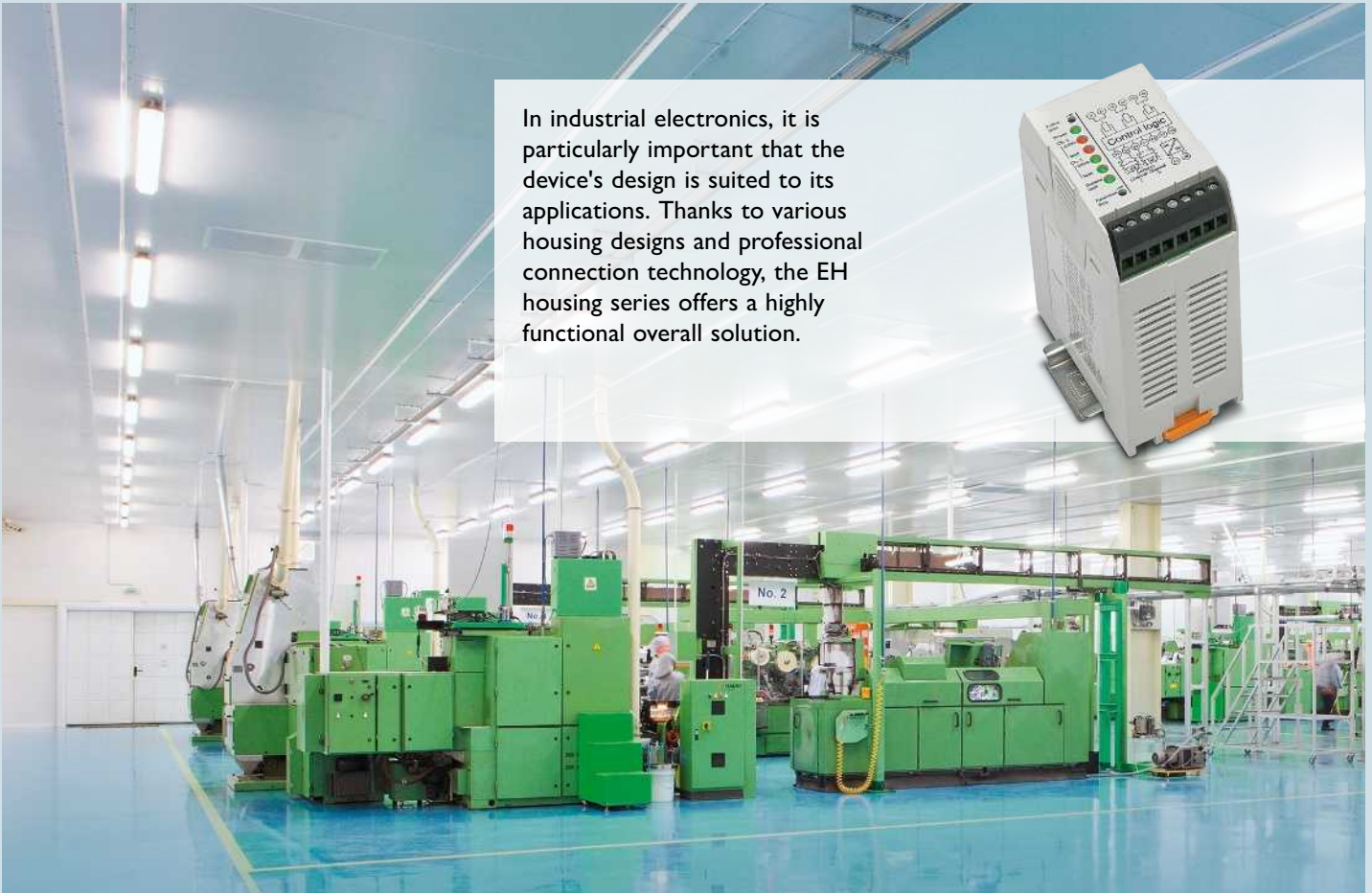
⁵⁾ ME-PLC-BUS DIN rail connector 50-pos.

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 overall depths, and three cover versions provide over 100 possible combinations.



In industrial electronics, it is particularly important that the device's design is suited to its applications. Thanks to various housing designs and professional connection technology, the EH housing series offers a highly functional overall solution.



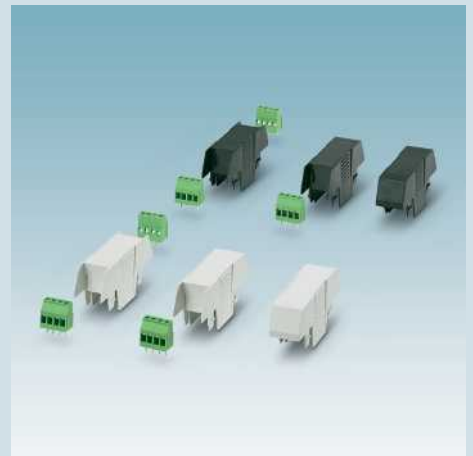
Advantages at a glance



For 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 variants for individual PCB connections

Configuration overview

EH series

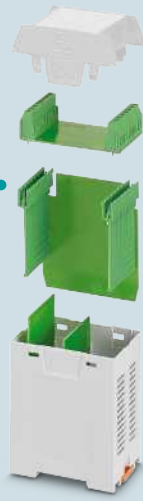
i Web code: #0387

| 1 Lower housing part | | | | 2 Upper housing part | | | 3 | |
|---|-------------------------------------|---------------|-----------|---|--|---|---|------------|
| Lower housing part Design | Color | Housing width | Order No. | One side open | Both sides open | Both sides closed | PCB terminal blocks | |
| | | | | | | | 5.08 mm pitch | Horizontal |
| Tall design Overall depth (lower part + upper part): 103 mm  | Light gray (similar to RAL 7035) | 22.5 mm | 2201248 |  |  |  |  | MKDS 3/... |
| | | 22.5 mm | 2201250 | 2201250 | 2201251 | 2201252 | 4-pos., green | 1712805 |
| | | 35 mm | 2201738 | 2201744 | 2201750 | 2200241 | 6-pos., green | 1701144 |
| | | 45 mm | 2201483 | 2201509 | 2201512 | 2201513 | 8-pos., green | 1712708 |
| | | 52.5 mm | 2201741 | 2201747 | 2201753 | 2200324 | 9-pos., green | 1707331 |
| | | 67.5 mm | 2201485 | 2201515 | 2201518 | 2201520 | 12-pos., green | 1714308 |
| | | 70 mm | 2201742 | 2201748 | 2201754 | 2200397 | 13-pos., green | On request |
| 90 mm | 2201487 | 2201523 | 2201525 | 2201526 | 17-pos., green | On request | | |
| Tall design Overall depth (lower part + upper part): 103 mm  | Black (similar to RAL 9005) | 22.5 mm | 2201249 |  |  |  |  | MKDS 3/... |
| | | 22.5 mm | 2201253 | 2201253 | 2201254 | 2201255 | 4-pos., green | 1712805 |
| | | 35 mm | 2201739 | 2201745 | 2201751 | 2200253 | 6-pos., green | 1701144 |
| | | 45 mm | 2201484 | 2201510 | 2201511 | 2201514 | 8-pos., green | 1712708 |
| | | 52.5 mm | 2201740 | 2201746 | 2201752 | 2200336 | 9-pos., green | 1707331 |
| | | 67.5 mm | 2201486 | 2201516 | 2201517 | 2201521 | 12-pos., green | 1714308 |
| | | 70 mm | 2201743 | 2201749 | 2201755 | 2200461 | 13-pos., green | On request |
| 90 mm | 2201488 | 2201522 | 2201524 | 2201527 | 17-pos., green | On request | | |

Configuring the EH series

3 Select connection technology or filler plug

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



2 Choose the matching upper housing part

Test the EH series:

Sample set: 52006670

Get in touch with your contact person in Sales.


Connection technology

| | | Headers | | | | | | Filler plug |
|------------------------------|---------------|---------------|---------------|---------------|---|----------------|----------------|--------------|
| 5 mm pitch | 5 mm pitch | 5.08 mm pitch | 5.08 mm pitch | 5.08 mm pitch | | 3.5 mm pitch | 3.5 mm pitch | |
| Mounting position of the PCB | | | | | | | | |
| Horizontal | Horizontal | Horizontal | Vertical | Vertical | | Vertical | Vertical | |
| | | | | | | | | |
| MKKDSH 3/... | MSTBV 2,5/... | MSTBV 2,5/... | MSTBO 2,5/... | MSTBO 2,5/... | | MCO-EH 1,5/... | MCO-EH 1,5/... | EH...-FP/ABS |
| | | | Left version | Right version | | Left version | Right version | |
| 2 x 1721045 | 1753479 | 1758034 | 1850453 | 1847123 | 5-pos., light gray | 2202330 | 2202331 | |
| 2 x 1721346 | 1753518 | 1758050 | 1850479 | 1847149 | | | | 2201840 |
| 1703283 | 1753550 | 1758076 | 1850495 | 1847165 | 5-pos., light gray (2 pcs. required) | 2202330 | 2202331 | 2201843 |
| On request | 1753576 | 1758089 | On request | On request | | | | 2201840 |
| On request | 1753631 | 1758115 | On request | On request | | | | 2201843 |
| On request | 1753657 | 1758128 | On request | On request | | | | 2201840 |
| On request | 1753738 | 1758160 | On request | On request | | | | 2201843 |
| | | | | | | | | |
| 2 x 1721045 | 1753479 | 1758034 | 1850453 | 1847123 | 5-pos., black | 2202333 | 2202332 | |
| 2 x 1721046 | 1753518 | 1758050 | 1850479 | 1847149 | | | | 2201841 |
| 1703283 | 1753550 | 1758076 | 1850495 | 1847165 | 5-pos., black (2 pcs. required) | 2202333 | 2202332 | 2201842 |
| On request | 1753576 | 1758089 | On request | On request | | | | 2201841 |
| On request | 1753631 | 1758115 | On request | On request | | | | 2201842 |
| On request | 1753657 | 1758128 | On request | On request | | | | 2201841 |
| On request | 1753738 | 1758160 | On request | On request | | | | 2201842 |

Configuration overview

EH series

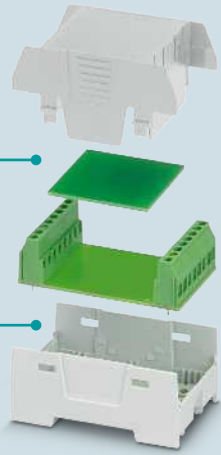
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| 1 Lower housing part | | | | 2 Upper housing part | | | 3 PCB terminal blocks | |
|--|-------------------------------------|---------------|-----------|---|--|---|---|------------|
| Lower housing part Design | Color | Housing width | Order No. | One side open | Both sides open | Both sides closed | 5.08 mm pitch | |
| | | | | | | | Horizontal | |
| Flat design Overall depth (lower part + upper part): 53.5 mm  | Light gray (similar to RAL 7035) | 22.5 mm | 2200665 |  |  |  |  | |
| | | 35 mm | 2201814 | 2200674 | 2201453 | 2201653 | 4-pos., green | 1712805 |
| | | 45 mm | 2200474 | 2201820 | 2201826 | 2201832 | 6-pos., green | 1701144 |
| | | 52.5 mm | 2201816 | 2200789 | 2201770 | 2201769 | 8-pos., green | 1712708 |
| | | 67.5 mm | 2200519 | 2201822 | 2201829 | 2201835 | 9-pos., green | 1707331 |
| | | 70 mm | 2201819 | 2201097 | 2201773 | 2201774 | 12-pos., green | 1714308 |
| | | 90 mm | 2200663 | 2201825 | 2201830 | 2201836 | 13-pos., green | On request |
| Flat design Overall depth (lower part + upper part): 53.5 mm  | Black (similar to RAL 9005) | 22.5 mm | 2200666 |  |  |  |  | |
| | | 35 mm | 2201815 | 2201452 | 2201456 | 2201765 | 4-pos., green | 1712805 |
| | | 45 mm | 2200492 | 2201821 | 2201827 | 2201833 | 6-pos., green | 1701144 |
| | | 52.5 mm | 2201817 | 2201448 | 2201771 | 2201766 | 8-pos., green | 1712708 |
| | | 67.5 mm | 2200520 | 2201823 | 2201828 | 2201834 | 9-pos., green | 1707331 |
| | | 70 mm | 2201818 | 2201447 | 2201772 | 2201775 | 12-pos., green | 1714308 |
| | | 90 mm | 2200664 | 2201824 | 2201831 | 2201837 | 13-pos., green | On request |
| | | | 2201388 | 2201779 | 2201776 | 17-pos., green | On request | |

Configuring the EH series

3 Select connection technology or filler plug

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



2 Choose the matching upper housing part

Test the EH series:

Sample set: 52006670

Get in touch with your contact person in Sales.

Connection technology

| Headers | | | | | | | Filler plugs |
|------------------------------|---------------|---------------|----------------|-------------|----------------|---------------|--------------|
| 5 mm pitch | 5 mm pitch | 5.08 mm pitch | | 5 mm pitch | | 3.81 mm pitch | |
| Mounting position of the PCB | | | | | | | |
| Horizontal | Horizontal | Horizontal | | Horizontal | | Horizontal | |
| | | | | | | | |
| MKKDSH 3/... | MSTBV 2,5/... | MSTBV 2,5/... | | PST 1,3/... | | MCV 1,5/... | |
| 2 x 1721045 | 1753479 | 1758034 | 4-pos., black | 1933202 | 5-pos., green | 1803455 | |
| 2 x 1721346 | 1753518 | 1758050 | 6-pos., black | 1933228 | 8-pos., green | 1803484 | 2201847 |
| 1703283 | 1753550 | 1758076 | 8-pos., black | 1933244 | 10-pos., green | 1803507 | 2201844 |
| On request | 1753576 | 1758089 | 9-pos., black | 1933257 | 12-pos., green | 1803523 | 2201847 |
| On request | 1753631 | 1758115 | 12-pos., black | 1933286 | 16-pos., green | 1803565 | 2201844 |
| On request | 1753657 | 1758128 | 12-pos., black | 1933299 | 16-pos., green | 1803565 | 2201847 |
| On request | 1753738 | 1758160 | 17-pos., black | 1935556 | 21-pos., green | On request | 2201844 |
| | | | | | | | |
| 2 x 1721045 | 1753479 | 1758034 | 4-pos., black | 1933202 | 5-pos., green | 1803455 | |
| 2 x 1721046 | 1753518 | 1758050 | 6-pos., black | 1933228 | 8-pos., green | 1803484 | 2201846 |
| 1703283 | 1753550 | 1758076 | 8-pos., black | 1933244 | 10-pos., green | 1803507 | 2201845 |
| On request | 1753576 | 1758089 | 9-pos., black | 1933257 | 12-pos., green | 1803523 | 2201846 |
| On request | 1753631 | 1758115 | 12-pos., black | 1933286 | 16-pos., green | 1803565 | 2201845 |
| On request | 1753657 | 1758128 | 12-pos., black | 1933299 | 16-pos., green | 1803565 | 2201846 |
| On request | 1753738 | 1758160 | 17-pos., black | 1935556 | 21-pos., green | On request | 2201845 |

ICS modular electronics housings with variable connection technology

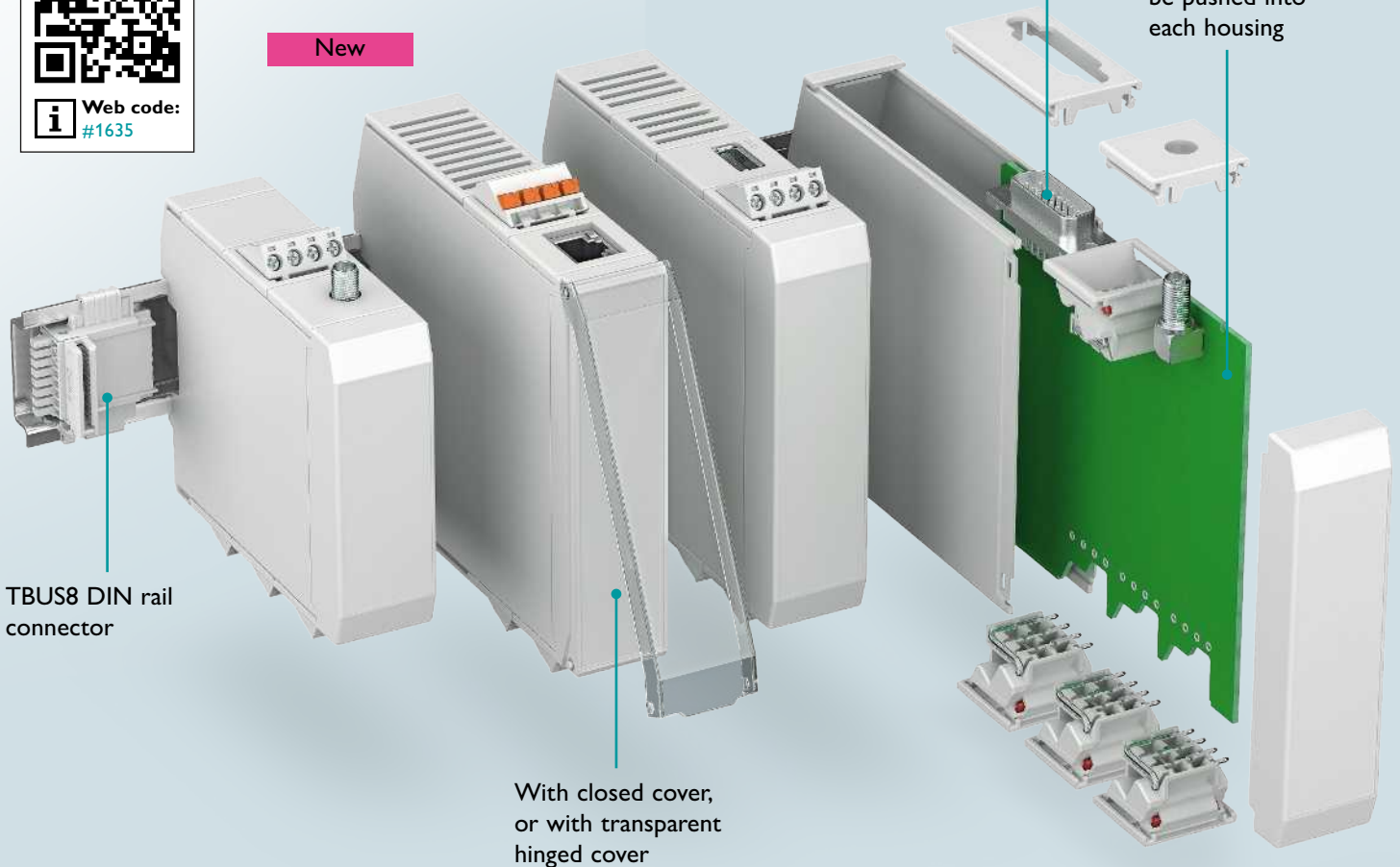
The solutions made possible by the modular ICS housing system are as varied as the requirements for future-oriented automation devices. Take advantage of a housing system with graduated sizes, variable connection technology, and optional eight-position bus connectors.

Wide range of connection technologies can be positioned as desired

Up to 2 PCBs can be pushed into each housing



New



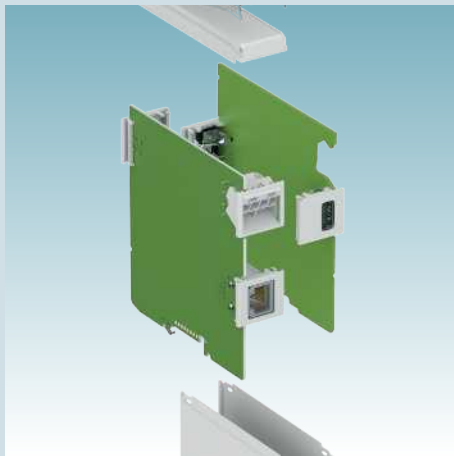


Electronics housings of the ICS series have a modular design and are easy to scale. The connection technology can be integrated in a variety of ways, which makes for flexible solutions in the industrial IoT environment – whether as a single device or complete system module.

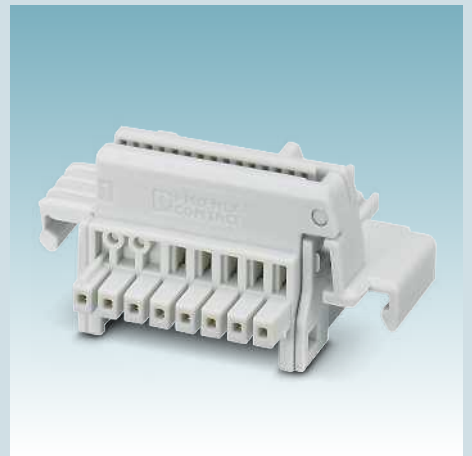
Advantages at a glance



Diverse connection technology such as RJ45, D-SUB, USB, and antenna, as well as touchproof connector headers



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




TBUS8 DIN rail connector for interconnecting individual housing modules

Configuration overview




ICS series

i Web code: #1636




| Housing | | | |
|---|-------|--------|--------|
| (Lower housing part with upper housing part) | | | |
| New | | | |
| | Width | Height | Depth |
|  | 20 mm | 100 mm | 110 mm |
| | 25 mm | 77 mm | 87 mm |
| | 25 mm | 100 mm | 110 mm |
| | 25 mm | 100 mm | 132 mm |
| | 25 mm | 122 mm | 110 mm |

| 1 Lower housing part | | |
|---|-----------|-----------------------------|
|  | | |
| Type | Order No. | Depth of lower housing part |
| ICS20-B100x98-V-7035 | 2203878 | 98 mm |
| ICS25-B77x87-O-7035 | 2203876 | 75 mm |
| ICS25-B100x98-V-7035 | 2203881 | 98 mm |
| ICS25-B100x120-V-7035 | 2203884 | 120 mm |
| ICS25-B122x98-V-7035 | 2203885 | 98 mm |

| 3 Housing | | | |
|---|-------|--------|--------|
| (Lower housing part with upper housing part) | | | |
| | Width | Height | Depth |
|  | 20 mm | 100 mm | 110 mm |
| | 25 mm | 77 mm | 87 mm |
| | 25 mm | 100 mm | 110 mm |
| | 25 mm | 100 mm | 132 mm |
| | 25 mm | 122 mm | 110 mm |

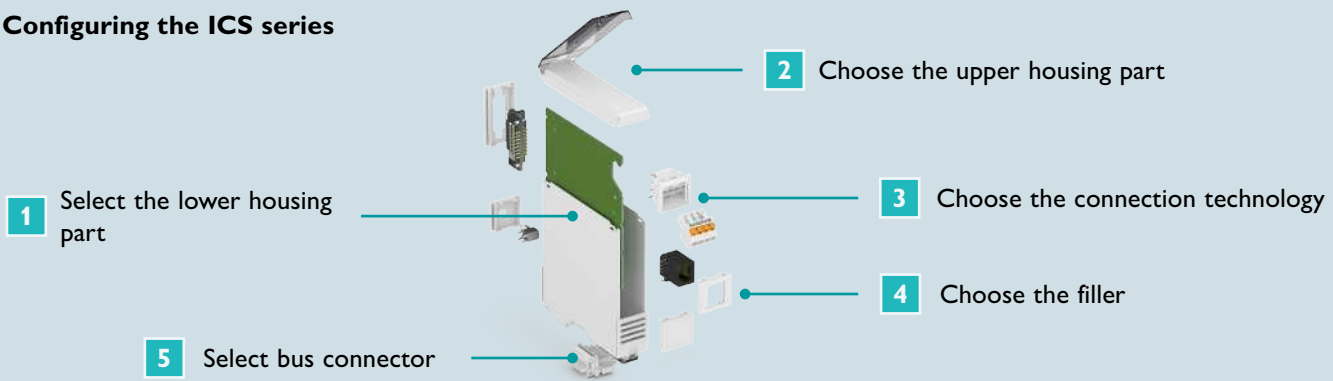
| 3 Connection technology | | | | | |
|---|-----------|---|-----------|---|-----------|
| Headers | | | | | |
|  | |  | |  | |
| 3-pos., left / 5 mm | | 3-pos., right / 5 mm | | 4-pos., left / 5 mm | |
| Type | Order No. | Type | Order No. | Type | Order No. |
| ICC20-H/3L5,0 - 7035 | 2203900 | ICC20-H/3R5,0 - 7035 | 2203901 | ICC25-H/4L5,0 - 7035 | 2203902 |
| | | | | ICC25-H/4L5,0 - 7035 | 2203902 |
| | | | | ICC25-H/4L5,0 - 7035 | 2203902 |
| | | | | ICC25-H/4L5,0 - 7035 | 2203902 |

| 4 Housing | | | |
|---|-------|--------|--------|
| (Lower housing part with upper housing part) | | | |
| | Width | Height | Depth |
|  | 20 mm | 100 mm | 110 mm |
| | 25 mm | 77 mm | 87 mm |
| | 25 mm | 100 mm | 110 mm |
| | 25 mm | 100 mm | 132 mm |
| | 25 mm | 122 mm | 110 mm |

| 4 Filler | | | | | | | |
|---|-----------|-----------------|-----------|---|-----------|---|-----------|
| Filler closed | | | | Filler with function cutout | | | |
| Without ventilation slots | | | | For antenna | | For RJ45 | |
|  | | | |  | |  | |
| Height 22.5 mm | | Height 45 mm | | Height 22.5 mm | | Height 22.5 mm | |
| Type | Order No. | Type | Order No. | Type | Order No. | Type | Order No. |
| ICS20-F22S-7035 | 2203888 | ICS20-F45S-7035 | 2203889 | ICS20-F22A-7035 | 2203892 | | |
| ICS25-F22S-7035 | 2203890 | ICS25-F45S-7035 | 2203891 | ICS25-F22A-7035 | 2203894 | ICS25-F22J-7035 | 2203895 |
| ICS25-F22S-7035 | 2203890 | ICS25-F45S-7035 | 2203891 | ICS25-F22A-7035 | 2203894 | ICS25-F22J-7035 | 2203895 |
| ICS25-F22S-7035 | 2203890 | ICS25-F45S-7035 | 2203891 | ICS25-F22A-7035 | 2203894 | ICS25-F22J-7035 | 2203895 |
| ICS25-F22S-7035 | 2203890 | ICS25-F45S-7035 | 2203891 | ICS25-F22A-7035 | 2203894 | ICS25-F22J-7035 | 2203895 |

Further fillers with function cutout available on request

Configuring the ICS series



2

Upper housing part

Closed

With transparent hinged cover



| Type | Order No. | Type | Order No. | Depth of upper housing part |
|--------------------|-----------|---------------------|-----------|-----------------------------|
| ICS20-C100x12-7035 | 2209879 | ICS20-TL100x12-7035 | 2203880 | 12 mm |
| ICS25-C77x12-7035 | 1019703 | ICS25-TL77x12-7035 | 1019570 | 12 mm |
| ICS25-C100x12-7035 | 2203882 | ICS25-TL100x12-7035 | 2203883 | 12 mm |
| ICS25-C100x12-7035 | 2203882 | ICS25-TL100x12-7035 | 2203883 | 12 mm |
| ICS25-C122x12-7035 | 2203886 | ICS25-TL122x12-7035 | 2203887 | 12 mm |

Test the ICS series:

Sample set: 1047838

Get in touch with your contact person in Sales.

Connectors

With Push-in

With screw connection



4-pos., right / 5 mm

| Type | Order No. | Type | Order No. | Type | Order No. | Type | Order No. | Type | Order No. |
|----------------------|-----------|---------------------|-----------|---------------------|-----------|--------------------|-----------|---------------------|-----------|
| ICC25-H/4R5,0 - 7035 | 2203903 | PSPT 2,5/ 3 ST KMGY | 2202345 | | | MSTBT 2,5 HC/3-STP | 2200333 | | |
| ICC25-H/4R5,0 - 7035 | 2203903 | | | PSPT 2,5/ 4 ST KMGY | 2202344 | | | MSTBT 2,5 HC/ 4-STP | 2200332 |
| ICC25-H/4R5,0 - 7035 | 2203903 | | | PSPT 2,5/ 4 ST KMGY | 2202344 | | | MSTBT 2,5 HC/ 4-STP | 2200332 |
| ICC25-H/4R5,0 - 7035 | 2203903 | | | PSPT 2,5/ 4 ST KMGY | 2202344 | | | MSTBT 2,5 HC/ 4-STP | 2200332 |
| | | | | PSPT 2,5/ 4 ST KMGY | 2202344 | | | MSTBT 2,5 HC/ 4-STP | 2200332 |

5

DIN rail connector, 8-pos.

TBUS8, 8 parallel contacts,
2.54 mm pitch

TBUS8, 7 parallel contacts,
1 serial contact, 2.54 mm pitch

TBUS8, 6 parallel contacts,
2 serial contacts, 2.54 mm pitch

For D-SUB



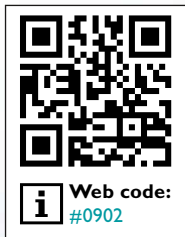
Height 45 mm

| Type | Order No. | Type | Order No. | Type | Order No. | Type | Order No. |
|-----------------|-----------|--------------------------|-----------|--------------------------|-----------|--------------------------|-----------|
| | | TBUS8-20,0-PPPPPPPP-7035 | 2202889 | TBUS8-20,0-PPPPPPPS-7035 | 2202894 | TBUS8-20,0-PPPPPPSS-7035 | 2202892 |
| ICS25-F45D-7035 | 2203896 | TBUS8-25,0-PPPPPPPP-7035 | 2202891 | TBUS8-25,0-PPPPPPPS-7035 | 2202890 | TBUS8-25,0-PPPPPPSS-7035 | 2202895 |
| ICS25-F45D-7035 | 2203896 | TBUS8-25,0-PPPPPPPP-7035 | 2202891 | TBUS8-25,0-PPPPPPPS-7035 | 2202890 | TBUS8-25,0-PPPPPPSS-7035 | 2202895 |
| ICS25-F45D-7035 | 2203896 | TBUS8-25,0-PPPPPPPP-7035 | 2202891 | TBUS8-25,0-PPPPPPPS-7035 | 2202890 | TBUS8-25,0-PPPPPPSS-7035 | 2202895 |
| ICS25-F45D-7035 | 2203896 | TBUS8-25,0-PPPPPPPP-7035 | 2202891 | TBUS8-25,0-PPPPPPPS-7035 | 2202890 | TBUS8-25,0-PPPPPPSS-7035 | 2202895 |

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

The modular ME electronics housings transform assembled PCBs into easy-to-install electronics solutions. 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.



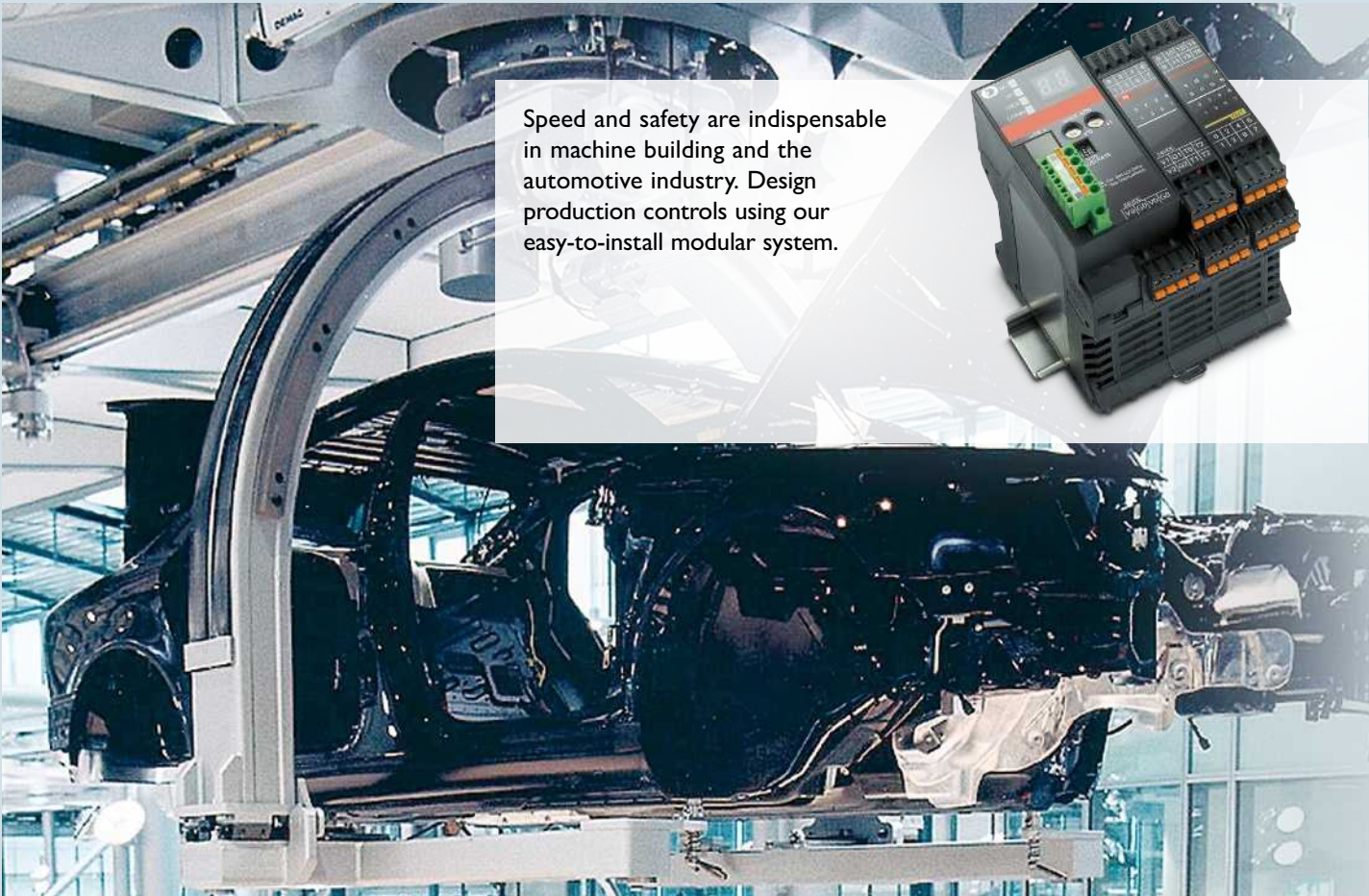
Connection technology with
pitches from 3.5 mm to 7.5 mm

Up to three connection
levels

Optional DIN rail
connectors for efficient
modular communication

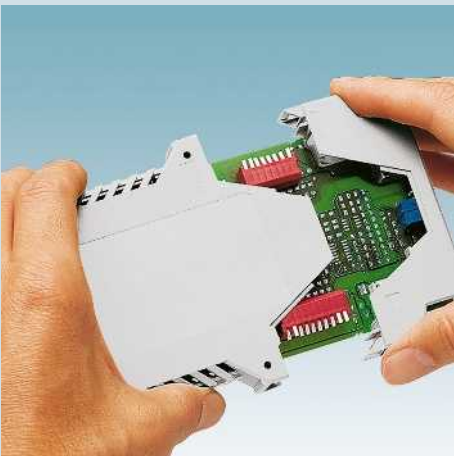
Touchproof PSPT PCB
connectors with Push-in spring
connection

Large housing covers
for displays



Speed and safety are indispensable in machine building and the automotive industry. Design production controls using our easy-to-install modular system.

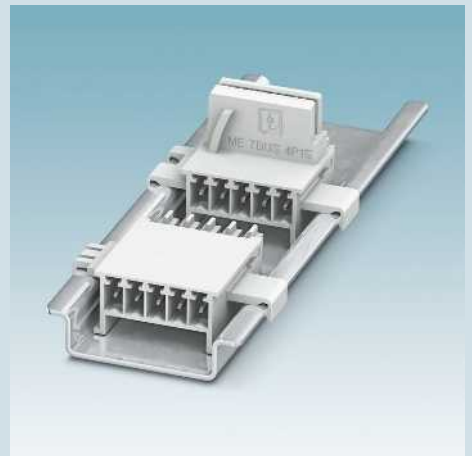
Advantages at a glance



Cup principle for short assembly times



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












Five parallel or four parallel and one serial contact for efficient modular communication

Configuration overview

ME series

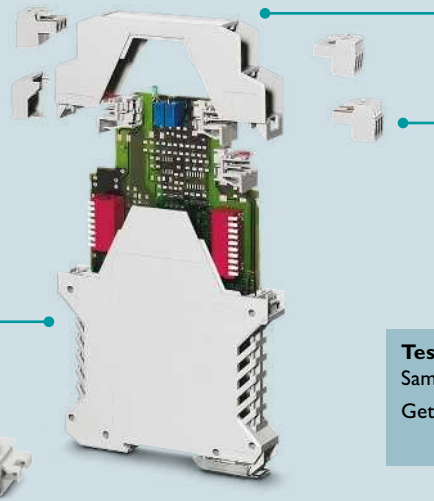
i Web code: #0305

| 1 Lower housing part | | | | | | | |
|---|---------------|---|---|---|---|---|---|
| Housing | Housing width | Without bus connector | With integrated bus connector | | | | For DIN rail connector |
| | | | 5 parallel pos. | 5 parallel pos., 2 serial pos. | 10 parallel pos. | 10 parallel pos., 2 serial pos. | |
| | |  |  |  |  |  |  |
| | Type | 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 | | | | | |

Configuring the ME series

1 Select the lower housing part

2 Add the DIN rail bus as an option



3 Choose the matching upper housing part

4 Select connection technology⁴⁾ or filler plug (pp. 22-25)

Test the ME series:

Sample set: 52005214

Get in touch with your contact person in Sales.

2 DIN rail connector

3.81 mm pitch 3.81 mm pitch 3.81 mm pitch

5 parallel pos. 4 parallel pos.,
1 serial pos. Adapter,
5 parallel pos.



ME ... TBUS ... ME ... TBUS ... 4P1S ME ... TBUS
ADAPTER

| | | |
|-----------------------|-----------------------|-----------------------|
| 2713645 | 2201731 | 2201757 |
| 2713722 | 2201732 | 2201756 |
| 2713645 ²⁾ | 2201731 ²⁾ | 2201757 ²⁾ |
| 2713722 ²⁾ | 2201732 ²⁾ | 2201756 ²⁾ |
| 2713722 ²⁾ | 2201732 ²⁾ | 2201756 ²⁾ |
| 2713722 ²⁾ | 2201732 ²⁾ | 2201756 ²⁾ |

2713722 2201732 2201756

2713722 2201732 2201756

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 | 2914880 |
| 2 x 2278940 | 2 x 2200322 | 2914864 | | |
| 2 x 2278953 | 2200327 | 2709299 | 2854429 | 2 x 2914880 |
| 3 x 2278953 | 3 x 2200323 | 2200522 | 3 x 2907761 | 3 x 2914880 |
| 4 x 2278953 | 2 x 2200327 | 2200523 | 2 x 2854429 | 4 x 2914880 |

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





⁴⁾ Connector locking mechanisms are available for FMC, MC, and MSTBO connection technology (pp. 22-23)

Note: The lower housing parts shown here are also available without ventilation slots

The lower housing parts shown here are also available in additional colors

Configuration overview ME series PCB connectors

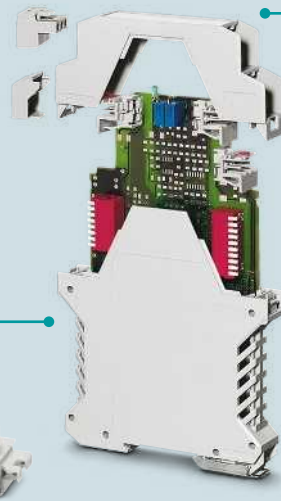
i Web code: #0305

| Upper housing part | Housing width | Maximum number of positions | | | 4 | | | | | | |
|--|---------------|-----------------------------|--------|---------|-------------------------|---------|--------------|-----------|---------------|-----------|---------|
| | | Pitch value | | | 3.5 mm pitch | | | | | | |
| | | 3.5 mm | 5.0 mm | 7.25 mm | Wave soldering | | Screw | Plug snap | Push-in | Plug snap | Push-in |
| | | | | | MCO 1,5/... G1 ... -3,5 | MC | ME PS ... MC | FMC | ME PS ... FMC | FK-MCP | |
| | | | | | Left | Right | | | | | |
| ME...OT-1MSTBO  | 22.5 mm | 5 | 4 | 3 | 2278380 | 2278351 | 1769087 | | 1773581 | | 1773604 |
| | 45 mm | 10 | 8 | 6 | 2278380 | 2278351 | 1769087 | | 1773581 | | 1773604 |
| | 67.5 mm | 15 | 12 | 9 | 2278380 | 2278351 | 1769087 | | 1773581 | | 1773604 |
| | 90 mm | 20 | 16 | 12 | 2278380 | 2278351 | 1769087 | | 1773581 | | 1773604 |
| ME ... OT-MSTBO  | 12.5 mm | 12 | 8 | | 2278319 | 2278322 | 1769061 | | | | |
| | 17.5 mm | 16 | 12 | 8 | 2278364 | 2278377 | 1769074 | | 1773578 | | 1773594 |
| | 22.5 mm | 20 | 16 | 12 | 2278380 | 2278351 | 1769087 | | 1773581 | | 1773604 |
| | 35 mm | 32 | 24 | 16 | 2278364 | 2278377 | 1769074 | | 1773578 | | 1773594 |
| | 45 mm | 40 | 32 | 24 | 2278380 | 2278351 | 1769087 | | 1773581 | | 1773604 |
| ME ... OT-3MSTBO  | 22.5 mm | 30 | 24 | 18 | 2278380 | 2278351 | 1769087 | | 1773581 | | 1773604 |
| ME...OTP-MSTBO-PS  | 17.5 | 16 | 12 | | | | 1769087 | 2279842 | 1773581 | 2279949 | |
| | 22.5 | 20 | 16 | | | | 1769087 | 2279745 | 1773581 | 2279648 | |

Configuring the ME series

1 Select the lower housing part

2 Add the DIN rail bus as an option



3 Choose the matching upper housing part

4 Select connection technology¹⁾ or filler plug (pp. 22-25)

Test the ME series:

Sample set: 52005214

Get in touch with your contact person in Sales.

Connection technology






| 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 | |
| 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- ... |
| Left | Right | Left | Right | Left | Right | | | | Left | Right | | |
| | | | | | | | | | | | | |
| 2907774 | 2907787 | 2697194 | 2697204 | 2200325 | 2200326 | 2202344 | 2200332 | | 2199663 | 2199566 | 2199553 | 2907965 |
| 2907774 | 2907787 | 2697194 | 2697204 | 2200325 | 2200326 | 2202344 | 2200332 | | 2199663 | 2199566 | 2199553 | 2907965 |
| 2907774 | 2907787 | 2697194 | 2697204 | 2200325 | 2200326 | 2202344 | 2200332 | | 2199663 | 2199566 | 2199553 | 2907965 |
| 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 | 2679194 | 2697204 | 2200325 | 2200326 | 2202344 | 2200332 | | 2199663 | 2199566 | 2199553 | 2 x 2279787 |
| | | | | | | | | | | | | |
| | | | | | | | 2200332 | 2279062 | | | | |

¹⁾ Additionally, connector locking mechanisms are available for FMC, MC, and MSTBO connection technology (pp. 22-23)

Configuration overview

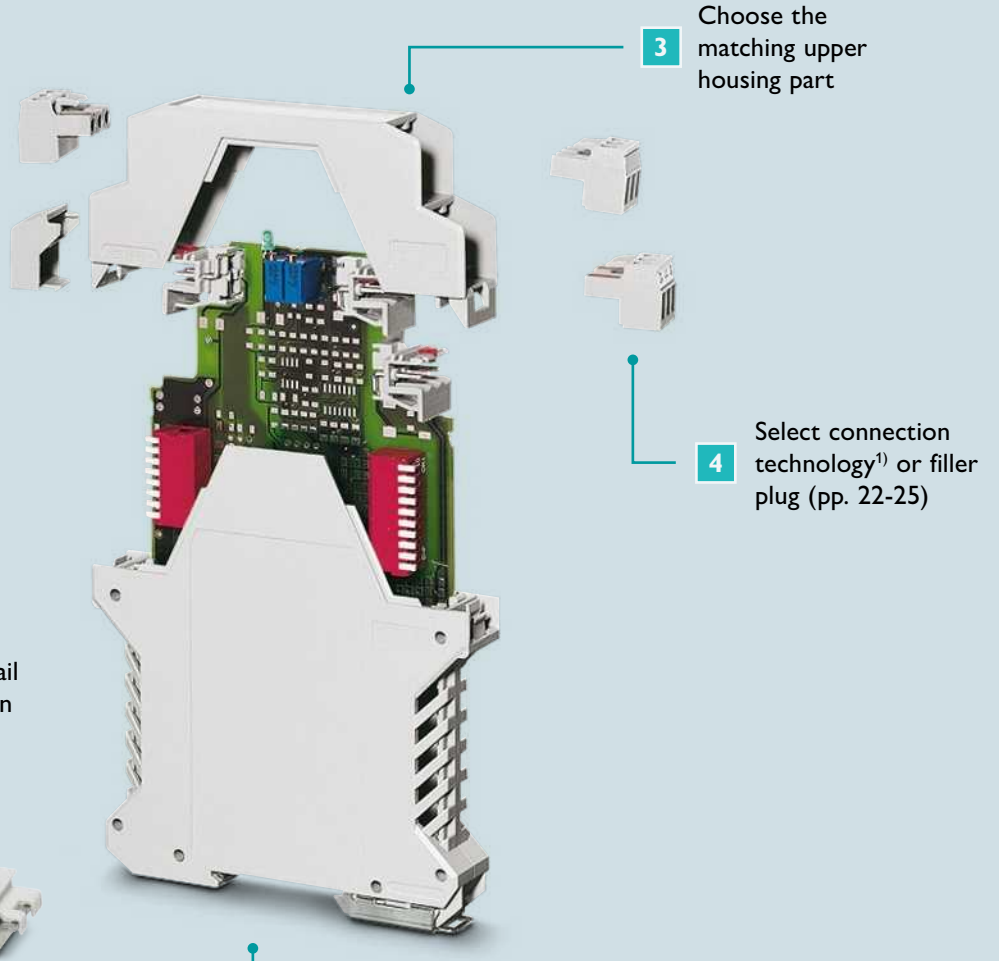
ME series PCB terminal blocks

i Web code: #0305

| Upper housing part | Housing width | Maximum number of positions | | Connection technology | | | | | |
|---|---------------|-----------------------------|------|---|---|---|-------------------------|-------------------------|-------------------------|
| | | Pitch value | | PCB terminal blocks | | | | | |
| | | 3.5 mm | 5 mm | 3.5 mm pitch | | 5 mm pitch | | 5 mm pitch | |
| | | | | Screw | | | | Push-in | |
| | | | | MKDSO 1,5/...-3,5 | | MKDSO 2,5/... | | FKDSO 2,5/... | |
| | | | | Left | Right | Left | Right | Left | Right |
| | | | |  |  |  | | | |
| 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 | | | | | 2200315 | 2200316 |
|  | 17.5 mm | | 12 | | | | | 2200318 | 2200317 |
| | 22.5 mm | | 16 | | | | | 2200319 | 2200320 |
| | 45 mm | | 32 | | | | | 2200319 | 2200320 |

¹⁾ Additionally, connector locking mechanisms are available for FMC, MC, and MSTBO connection technology (pp. 22-23)

Configuring the ME series



3 Choose the matching upper housing part

4 Select connection technology¹⁾ or filler plug (pp. 22-25)

2 Add the DIN rail bus as an option

1 Select the lower housing part

Filler plugs

ME B- ...



2201862

2854115

2908498

2908498

2200565

2200566

2200567

2200567

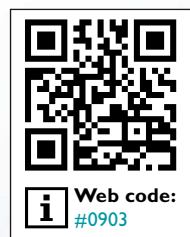
Test the ME series:

Sample set: 52005214

Get in touch with your contact person in Sales.

ME-MAX modular housings in flexible modular design

The modular ME-MAX electronics housings provide functional, design-oriented packaging for state-of-the-art industrial electronics. Variable connection technology, bus connectors, and modularity ensure the right device design for every application.



Connection technology with pitches from 3.5 mm to 7.5 mm

Optional shield clamp for attaching shielded conductors

Up to three connection levels

Optional DIN rail connectors for efficient modular communication

Touchproof PSPT PCB connectors with Push-in spring connection

Large housing covers for displays

The variable housing form factor and flexible compatibility of connection technology make it ideal for creating remote control stations, such as for energy networks.



Advantages at a glance



Modular housing design for variable electronics solutions



Connection technology for signal, data, and power transmission in various pitches









Power connectors for transmission of up to 42 A

Configuration overview

ME-MAX series

i Web code: #0306

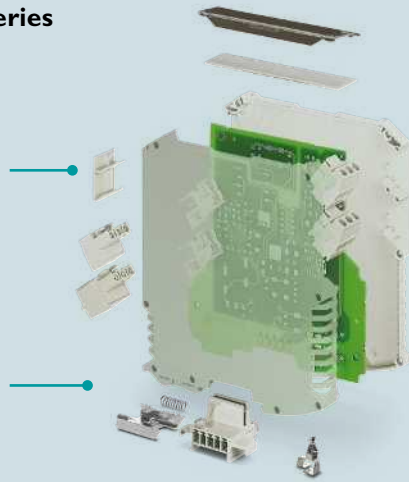
| 1 Housing | | | | | | | | | | | | | |
|---|---|--|---------------------|--------|-------------------|--|---------------------|--------|-------------------|--|---------------------|--------|-------------------|
| Housing | Housing width | ME MAX ... 3-3 | | | | ME MAX ... 2-2 | | | | ME MAX ... U-U1 | | | |
| | | Order No. | Max. number of pos. | | | Order No. | Max. number of pos. | | | Order No. | Max. number of pos. | | |
| | | | Pitch value | | | | Pitch value | | | | Pitch value | | |
| | | | 3.5 mm | 5.0 mm | 7.25 mm 7.5 mm | | 3.5 mm | 5.0 mm | 7.25 mm 7.5 mm | | 3.5 mm | 5.0 mm | 7.25 mm 7.5 mm |
| | |  | | | |  | | | |  | | | |
| Tall design (standard) Overall depth 114.5 mm  | 6.2 mm | 2869634 ¹⁾ 2869647 ¹⁾ | 8 | | | | | | | | | | |
| | 12.5 mm, with ³⁾ 12.5 mm, without ³⁾ | 2279020 2279017 | 18 | 12 | | | | | | | | | |
| | 17.5 mm, with ³⁾ 17.5 mm, without ³⁾ | 2713612 2713531 | 24 | 18 | 12 | 2713599 2713609 | 16 | 12 | 8 | 2713641 2713515 | 4 | 3 | 2 |
| | 22.5 mm, with ³⁾ 22.5 mm, without ³⁾ | 2713939 2713942 | 30 | 24 | 18 | 2713625 2713638 | 20 | 16 | 12 | 2713476 2713489 | 5 | 4 | 3 |
| | 35 mm, with ³⁾ 35 mm, without ³⁾ | 2713696 2713544 | 48 | 36 | 24 | 2713670 2713683 | 32 | 24 | 16 | 2713667 2713528 | 8 | 6 | 4 |
| | 45 mm, with ³⁾ 45 mm, without ³⁾ | 2713913 2713926 | 60 | 48 | 36 | 2713706 2713719 | 40 | 32 | 24 | 2713492 2713502 | 10 | 8 | 6 |
| | 67.5 mm, with ³⁾ 67.5 mm, without ³⁾ | 2200526 2200527 | 90 | 72 | 54 | 2200524 2200525 | 60 | 48 | 36 | 2200547 2200528 | 15 | 12 | 9 |
| | 90 mm, with ³⁾ 90 mm, without ³⁾ | 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 | | | | |

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)

Configuring the ME-MAX series

3 Select connection technology or filler plug (pp. 30-33)

2 Add DIN rail bus and power connectors as an option



1 Select the housing

Test the ME-MAX series:

Sample set: 52005224

Get in touch with your contact person in Sales.

| ME MAX ... 3-U1 | | | | | 2 DIN rail connectors | | | 2 Power connectors up to 42 A | | | |
|--------------------|---------------------|--------|-------------------|----------------------------------|-----------------------------------|-----------------------------|------------------------|--------------------------------------|------------|------------|--|
| Order No. | Max. number of pos. | | | ME ... TBUS ... 1,5/5 | ME ... TBUS ... 1,5/4P1S | ME ... TBUS ADAPTER | PCO ...L ²⁾ | PBR 42A RD | PBR 42A BU | PBR 42A GY | |
| | Pitch value | | | 3.81 mm pitch | 3.81 mm pitch | 3.81 mm pitch | Left | Cross connector | | | |
| | 3.5 mm | 5.0 mm | 7.25 mm 7.5 mm | 5 parallel pos. | 4 parallel pos., 1 serial pos. | Adapter, 5 parallel pos. | | | | | |
| | | | | 2969401 2279033 ⁴⁾ | | | | | | | |
| | | | | 2969401 | | | | | | | |
| 2201536 2201537 | 16 | 12 | 8 | 2713645 | 2201731 | 2201757 | 2201684 | 2201915 | 2201916 | 2201917 | |
| 2201538 2201539 | 20 | 16 | 12 | 2713722 | 2201732 | 2201756 | 2201685 | 2201915 | 2201916 | 2201917 | |
| | | | | 2713645 ⁵⁾ | 2201731 ⁵⁾ | 2201757 | 2201684 | 2201915 | 2201916 | 2201917 | |
| 2201682 2201683 | 40 | 32 | 24 | 2713722 ⁵⁾ | 2201732 ⁵⁾ | 2201756 | 2201685 | 2201915 | 2201916 | 2201917 | |
| | | | | 2713722 ⁵⁾ | 2201732 ⁵⁾ | 2201756 | 2201685 | 2201915 | 2201916 | 2201917 | |
| | | | | 2713722 ⁵⁾ | 2201732 ⁵⁾ | 2201756 | 2201685 | 2201915 | 2201916 | 2201917 | |
| | | | | 2713722 | 2201732 | 2201756 | 2201685 | 2201915 | 2201916 | 2201917 | |
| | | | | 2713722 ⁵⁾ | 2201732 ⁵⁾ | 2201756 | 2201685 | 2201915 | 2201916 | 2201917 | |
| | | | | 2713645 | 2201731 | | 2201684 | 2201915 | 2201916 | 2201917 | |
| | | | | 2713722 | 2201732 | 2201756 | 2201685 | 2201915 | 2201916 | 2201917 | |
| | | | | 2713722 ⁵⁾ | 2201732 ⁵⁾ | 2201756 | 2201685 | 2201915 | 2201916 | 2201917 | |










¹⁾ ME-MAX 6,2 has four connection levels ²⁾ Note: The ME-MAX can only be swung in together with a PCO on the DIN rail with the tall design ME-MAX ... 2-2

³⁾ With = with ventilation slots, without = without ventilation slots ⁴⁾ Pin strip required for contacting in the TBUS

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

Configuration overview ME-MAX series PCB connectors

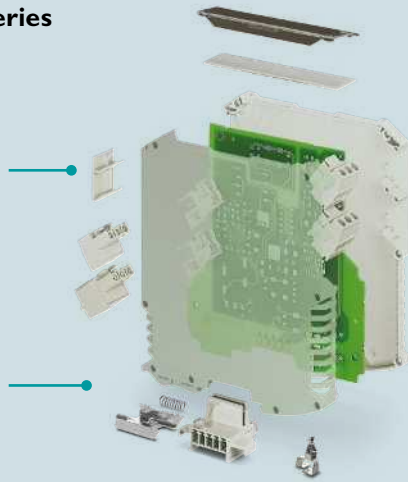
i Web code: #0306

| 1 Housing | | | | | | 3 | | | | | |
|---|---|---|---|---|---|--|------|---------|---|---|---------|
| Housing | Housing width | ME MAX ... 3-3 | ME MAX ... 2-2 | ME MAX ... U-U1 | ME MAX ... 3-U1 | Max. number of pos. for ME MAX ... 3-3 | | | 3.5 mm pitch | | |
| | | Order No. | Order No. | Order No. | Order No. | Connection technology | | | Wave soldering | Screw | |
| | | | | | | Manufacturing process | | | Wave soldering | | MC |
| | | | | | | Pitch value | | | MCO 1,5/ ... G1 ... -3,5 | | MC |
| | | | | | | 3.5 mm | 5 mm | 7.25 mm | Left | Right | |
| | |  |  |  |  | | | |  |  | |
| Tall design (standard) Overall depth 114.5 mm  | 6.2 mm | 2869634 ¹⁾ 2869647 ²⁾ | | | | 8 | | | | | |
| | 12.5 mm, with ³⁾ 12.5 mm, without ³⁾ | 2279020 2279017 | | | | 18 | 12 | | 2278319 | 2278322 | 1769061 |
| | 17.5 mm, with ³⁾ 17.5 mm, without ³⁾ | 2713612 2713531 | 2713599 2713609 | 2713641 2713515 | 2201536 2201537 | 24 | 18 | 12 | 2278364 | 2278377 | 1769074 |
| | 22.5 mm, with ³⁾ 22.5 mm, without ³⁾ | 2713939 2713942 | 2713625 2713638 | 2713476 2713489 | 2201538 2201539 | 30 | 24 | 18 | 2278380 | 2278351 | 1769087 |
| | 35 mm, with ³⁾ 35 mm, without ³⁾ | 2713696 2713544 | 2713670 2713683 | 2713667 2713528 | | 48 | 36 | 24 | 2278364 | 2278377 | 1769074 |
| | 45 mm, with ³⁾ 45 mm, without ³⁾ | 2713913 2713926 | 2713706 2713719 | 2713492 2713502 | 2201682 2201683 | 60 | 48 | 36 | 2278380 | 2278351 | 1769087 |
| | 67.5 mm, with ³⁾ 67.5 mm, without ³⁾ | 2200526 2200527 | 2200524 2200525 | 2200547 2200528 | | 90 | 72 | 54 | 2278380 | 2278351 | 1769087 |
| | 90 mm, with ³⁾ 90 mm, without ³⁾ | 2200531 2200532 | 2200529 2200530 | 2200546 2200533 | | 120 | 96 | 72 | 2278380 | 2278351 | 1769087 |
| Flat design Overall depth 92 mm  | 22.5 mm | 2869388 | | | | 30 | 24 | 18 | 2278380 | 2278351 | 1769087 |
| | 45 mm | 2869391 | | | | 60 | 48 | 36 | 2278380 | 2278351 | 1769087 |
| Ultra-flat design Overall depth 70.4 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 | 2278380 | 2278351 | 1769087 |

Configuring the ME-MAX series

3 Select connection technology or filler plug

2 Add DIN rail bus and power connectors as an option



1 Select the housing

Test the ME-MAX series:

Sample set: 52005224

Get in touch with your contact person in Sales.

Connection technology

Headers and connectors

| 5 mm pitch | | | | | | | | | | | | Filler plugs | |
|------------|---------|-----------------------|---------|--------------------------------|---------|-------------------------|---------|---------------|---------------|-----------------------------------|---------|---------------|---------------|
| 5 mm pitch | | | | | | 7.25 mm pitch | | | | | | | |
| Push-in | Push-in | Wave soldering | | Reflow soldering (THR) | | Wave soldering | | Push-in | Screw | Reflow soldering (THR) | | Screw | |
| 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- ... |
| | | Left | Right | Left | Right | Left | Right | | | Left | Right | | |
| | | | | | | | | | | | | | |
| | | 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 |
| 1773581 | 1773604 | 2907774 | 2907787 | 2697194 | 2697204 | 2200325 | 2200326 | 2202344 | 2200332 | 2199663 | 2199566 | 2199553 | 2707929 |
| 1773581 | 1773604 | 2907774 | 2907787 | 2697194 | 2697204 | 2200325 | 2200326 | 2202344 | 2200332 | 2199663 | 2199566 | 2199553 | 2707929 |
| 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 |
| 1773581 | 1773604 | 2907774 | 2907787 | 2697194 | 2697204 | 2200325 | 2200326 | 2202344 | 2200332 | 2199663 | 2199566 | 2199553 | 2707929 |









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

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

³⁾ With = with ventilation slots, without = without ventilation slots

Configuration overview ME-MAX series PCB terminal blocks

i Web code: #0306

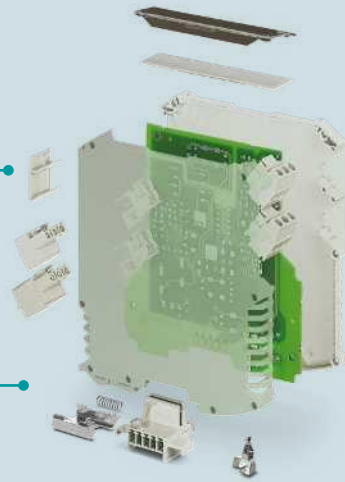
| 1 Housing | | | | | | 3 | | |
|---|---|---|---|---|--|---|---------|---------|
| Housing | Housing width | ME MAX ... 3-3 | ME MAX ... 2-2 | ME MAX ... U-U1 | ME MAX ... 3-U1 | Pitch value | 3.5 mm | |
| | | Order No. | Order No. | Order No. | Order No. | | | |
| | | | | | | MKDSO 1,5 | | |
| | | |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

Configuring the ME-MAX series

3 Select connection technology or filler plug

2 Add DIN rail bus and power connectors as an option

1 Select the housing



Test the ME-MAX series:

Sample set: 52005224

Get in touch with your contact person in Sales.

Connection technology

PCB terminal blocks

| 5 mm Screw MKDSO 2,5 | | 7.5 mm Screw MKDSO 2,5 HV | | 5 mm Push-in FKDSO 2,5 | | 7.5 mm Push-in FKDSO 2,5 HV | | ME MAX B-... |
|----------------------------|---------|---------------------------------|---------|------------------------------|---------|-----------------------------------|---------|--------------|
| Left | Right | Left | Right | Left | Right | Left | Right | |
| | | | | | | | | |
| 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 |
| 2908485 | 2908472 | 2890946 | 2890959 | 2200319 | 2200320 | 2201128 | 2201129 | 2707929 |
| 2908485 | 2908472 | 2890946 | 2890959 | 2200319 | 2200320 | 2201128 | 2201129 | 2707929 |
| 2908485 | 2908472 | 2890946 | 2890959 | 2200319 | 2200320 | 2201128 | 2201129 | 2707929 |
| 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 |
| 2908485 | 2908472 | 2890946 | 2890959 | 2200319 | 2200320 | 2201128 | 2201129 | 2707929 |

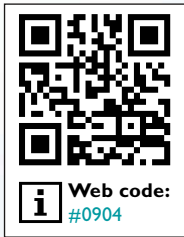
¹⁾ ME MAX 6,2 SC ... has four connection levels with screw connection

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

³⁾ With = with ventilation slots, without = without ventilation slots

ME-IO multifunctional housings with modular front connection technology

The multifunctional electronics housings of the ME-IO series enable realization of customized electronics assemblies such as controllers and I/O modules. Modular PCB connectors with Push-in spring connection offer up to 54 connection positions per base width of 18.8 mm. Thanks to different housing designs, you can adapt the modules to individual requirements.



Optional DIN rail connectors for efficient modular communication

PCB connectors with up to 54 connection positions

Three module widths (18.8 mm/37.6 mm/75.2 mm)

Different cover variants for integrating displays or PCB connections

Color-coded front connections for greater ease of wiring

Lock and Release system for simple installation and removal of connectors



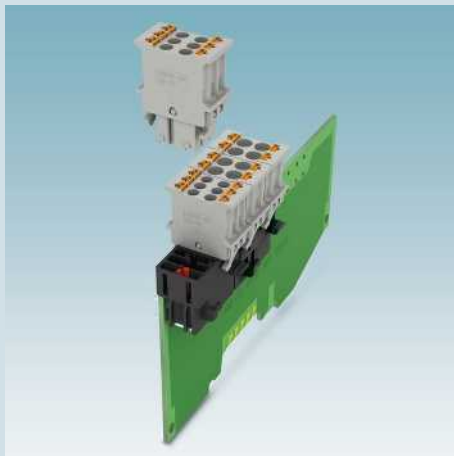
Packaging and assembly machines have limited space for controller and I/O systems. In spite of this, comprehensive functions must be implemented using a variety of signal inputs and outputs. Electronics housings from the ME-IO series offer the ideal solution.



Advantages at a glance



Different front connections for transmitting signals, data, and power



Four- and six-position connectors with pitches of 5.0 mm and 3.45 mm allow for high connection density














Additional marking option by means of inserts in transparent marking lid





Configuration overview

ME-IO series

i Web code: #0306

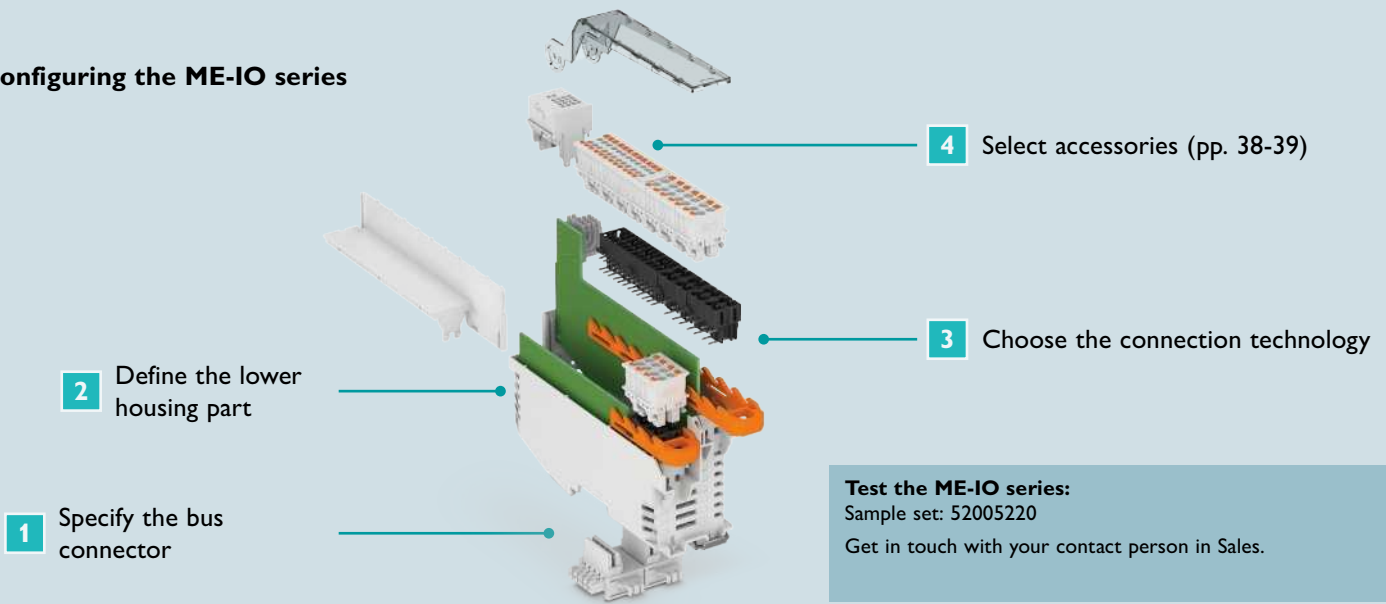
| DIN rail connectors | | | | | | | |
|---------------------|---|---|---|---|--|--|--|
| Number of positions | 5-pos. | | 8-pos. | | | | |
| Description | 5 parallel | 8 parallel | 7 parallel, 1 serial | 6 parallel, 2 serial | | | |
| 1 |  |  |  |  | | | |
| Order No. | 2201813 | 2202396 | 2202399 |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

| Lower housing part | | | | | | | |
|--------------------|---|---|---|---|---|---|---|
| Height | 10 units | | | | | | 9 units |
| Housing width | 18.8 mm | LB 37.6 mm | LB 37.6 mm + FE contact | 37.6 mm | LB 75.2 mm | 75.2 mm | 18.8 mm |
| 2 |  |  |  |  |  |  |  |
| Order No. | 2202506 | 2202618 | 2202619 | 2202663 | 2202620 | 2202664 | 2201809 |

| Lock and Release system ¹⁾ | | | | | | | |
|---------------------------------------|---|---|---|--|--|--|--|
| Description | 9U L&R | 7U L&R | 5U L&R | 3U L&R | | | |
| 2 |  |  |  |  | | | |
| Order No. | 2201794 | 2201795 | 2201796 | 2201797 | | | |

¹⁾ Lock and Release system corresponds to the connection technology

Configuring the ME-IO series



Test the ME-IO series:

Sample set: 52005220

Get in touch with your contact person in Sales.

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. |
| | | | | | | | |
| Order No. | 2201788 | 2201789 | 2201792 | 2201790 | 2203783 | 2202233 | 2202232 |

Connectors

| Description | Standard | | | | | | |
|--|----------|-----------------|---------|--------------|---------|--|--|
| Cross section [mm ²] ¹⁾ | 2.5 | | | | 1.5 | | |
| Number of positions | 4-pos. | 2-pos., bridged | 2 pos. | Filler plugs | 6-pos. | | |
| | | | | | | | |
| Order No. | 2201780 | 2201781 | 2201782 | 2202610 | 2202234 | | |

3

| Description | Standard colors | | | | | | |
|--|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| 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 | <input type="checkbox"/> RAL 1018 | <input type="checkbox"/> RAL 9010 | <input type="checkbox"/> RAL 9005 | <input type="checkbox"/> RAL 5015 | <input type="checkbox"/> RAL 6021 | <input type="checkbox"/> RAL 6021 | <input type="checkbox"/> RAL 3013 |
| | | | | | | | |
| Order No. | 2202567 | 2202568 | 2202569 | 2202570 | 2202571 | 2202607 | 2202572 |























| Description | Color combinations | | | | | | |
|--|--------------------|---------|---------|---------|---------|---------|---------|
| 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

Configuration overview

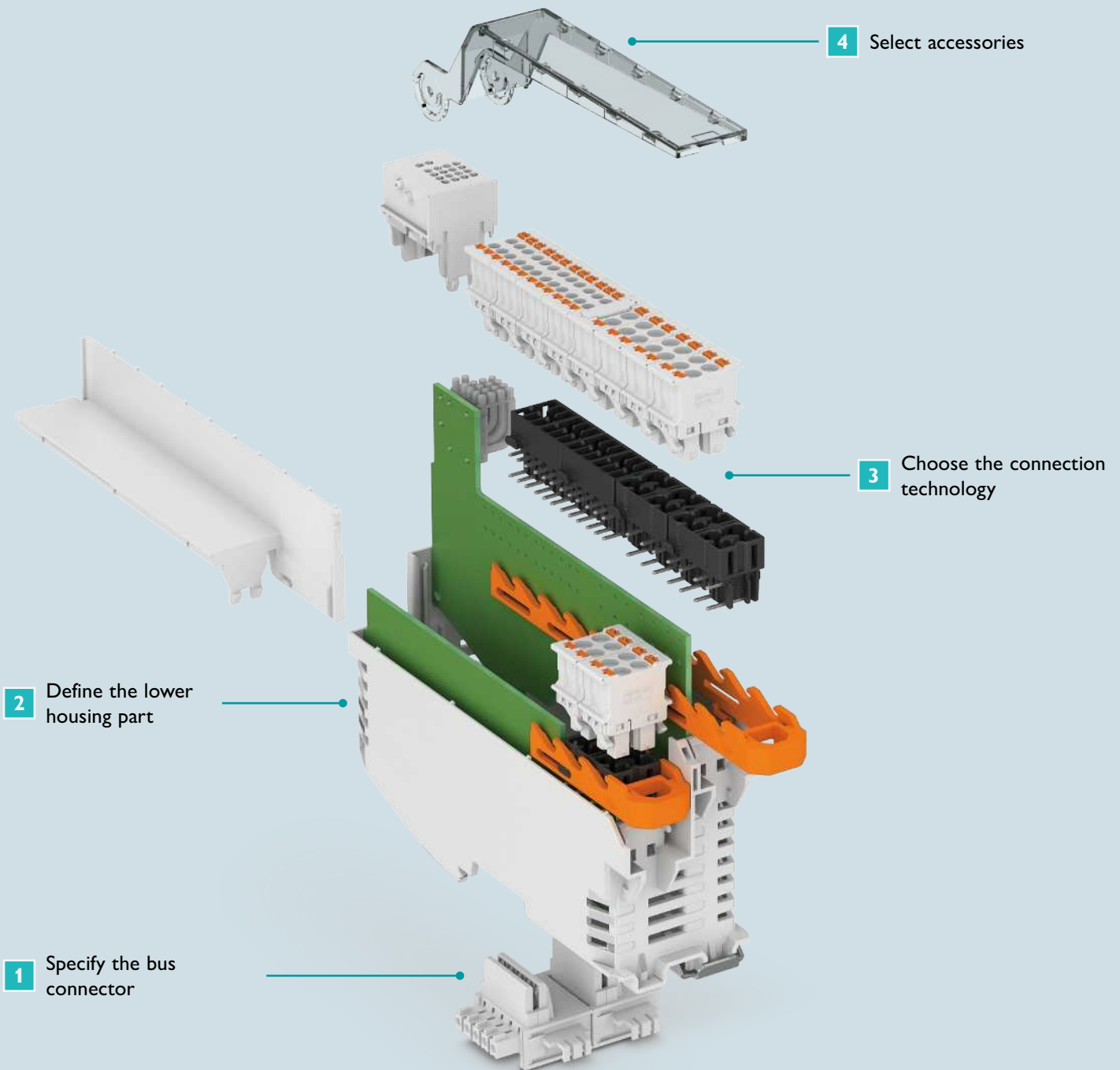
ME-IO series

i Web code: #0306

| Housing cover ¹⁾ | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|
| Pitch value | 2U | 3U | 4U | 5U | 6U | 7U | |
| 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 value | 8U | 9U | 10U | | | | |
| Width | 18.8 mm | 18.8 mm | 18.8 mm | 37.6 mm | 56.4 mm | 75.2 mm | Filler plugs |
| |  |  |  |  |  |  |  |
| Order No. | 2202634 | 2201806 | 2202630 | 2202665 | 2202662 | 2202583 | 2202635 |
| Pitch value | 2U for marking cover | | | | | | |
| Width | 18.8 mm | 18.8 mm | 18.8 mm | | | | |
| Description | | 10 holes | 18 holes | | | | |
| |  |  |  |  |  |  | |
| Order No. | 2202616 | 2202582 | 2202581 | 2202622 | 2202626 | 2202629 | |
| Accessories | | | | | | | |
| | FE contact | Marking lid | | Base latch | Coding pins | | |
| |  |  |  |  |  | | |
| Order No. | 2278076 | 2202627 | 0804286 | 2201812 | 1790647 | | |

¹⁾ Housing cover corresponds to the connection technology

Configuring the ME-IO series



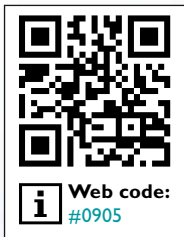
Test the ME-IO series:

Sample set: 52005220

Get in touch with your contact person in Sales.

ME-PLC multifunctional housings for complex controllers

Multifunctional electronics housings of the ME-PLC series are the ideal solution for applications with high space requirements and front-sided PCB connections. The housing system offers a large PCB mounting surface and efficient DIN rail connectors for a large range of applications.



105 mm

Stable 105 mm DIN rail

Optional DIN rail connectors for efficient modular communication

Lower housing part for large PCBs


Transparent cover for displays or LEDs

Front connection module for up to 36 connection positions

| Channel | Output | Channel | Output |
|---------|--------|---------|--------|
| 1 | DOU11 | 21 | DOU11B |
| 2 | DOU12 | 22 | DOU12B |
| 3 | DOU13 | 23 | DOU13B |
| 4 | DOU14 | 24 | DOU14B |
| 5 | DOU15 | 25 | DOU15B |
| 6 | DOU16 | 26 | DOU16B |
| 7 | DOU17 | 27 | DOU17B |
| 8 | DOU18 | 28 | DOU18B |
| 9 | DOU19 | 29 | DOU19B |
| 10 | DOU20 | 30 | DOU20B |
| 11 | DOU21 | 31 | DOU21B |
| 12 | DOU22 | 32 | DOU22B |
| 13 | DOU23 | 33 | DOU23B |
| 14 | DOU24 | 34 | DOU24B |
| 15 | DOU25 | 35 | DOU25B |
| 16 | DOU26 | 36 | DOU26B |

4 017918 277819

| | |
|----|----|
| 18 | 19 |
| 17 | 20 |
| 16 | 21 |
| 15 | 22 |
| 14 | 23 |
| 13 | 24 |
| 12 | 25 |
| 11 | 26 |
| 10 | 27 |
| 9 | 28 |
| 8 | 29 |
| 7 | 30 |
| 6 | 31 |
| 5 | 32 |
| 4 | 33 |
| 3 | 34 |
| 2 | 35 |
| 1 | 36 |



Full flexibility, lots of space for electronics, and convenient connection options are ideal conditions for use in process technology.



Advantages at a glance



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

Configuration overview

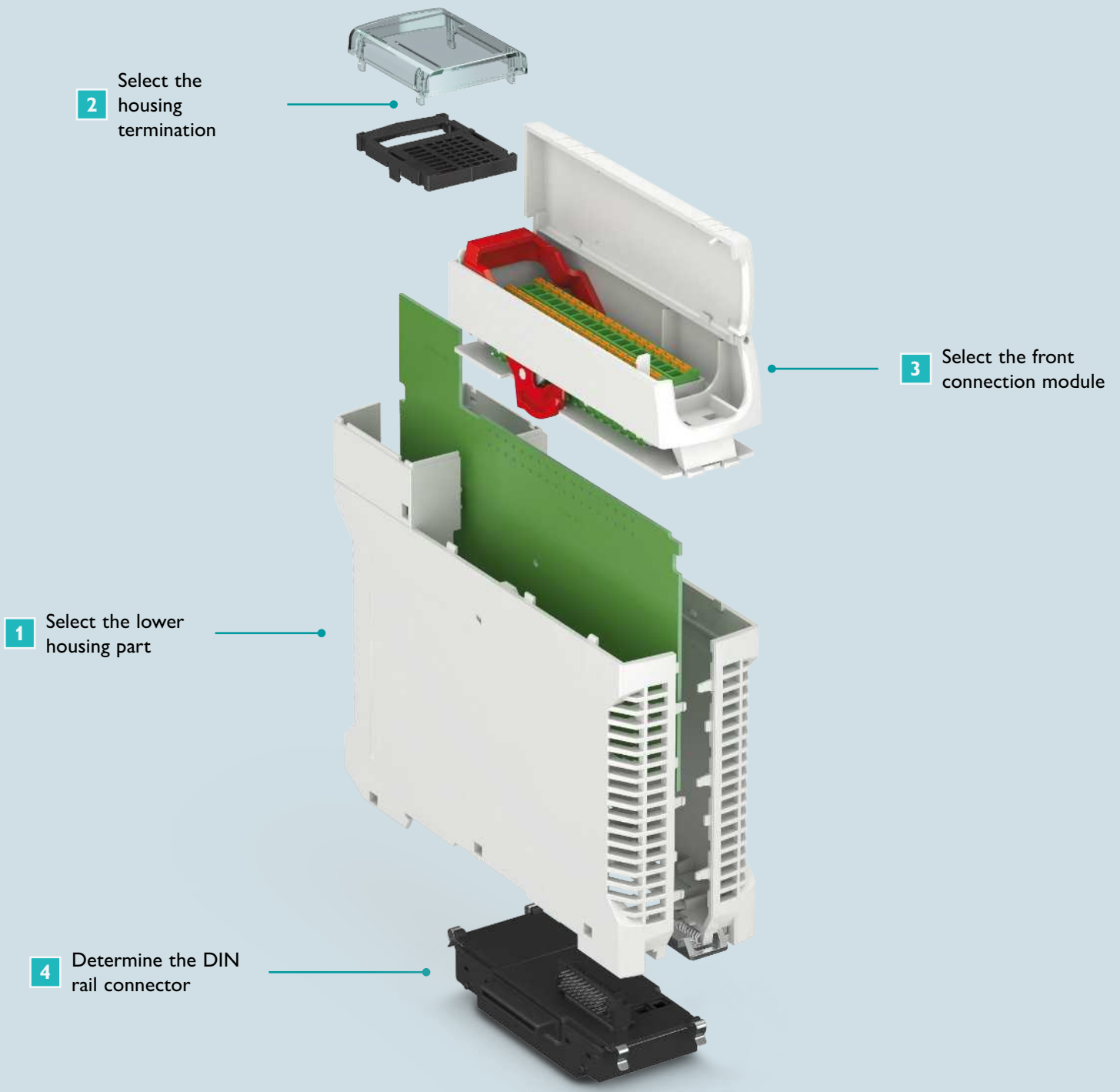
ME-PLC series

i Web code: #0309

| | Description | Type | Order No. |
|--------------------------------|--|------------------------------|--------------------------------|
| Lower housing parts | | | |
| 1 | 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 |
| Housing termination | | | |
| 2 | 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 |
| Front connection module | | | |
| 3 | 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 RJ45 connection technology, securely snapped in | ME PLC 40 CTRJ45 GY7035 | 2201495 |
| DIN rail connectors | | | |
| 4 | 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 |
| Accessories | | | |
| | DIN rail, unperforated 105 x 20 mm, cut to size individually | NS 105/20 UNPERF | 2201508 DIN rail ¹⁾ |
| | 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

Configuring the ME-PLC series



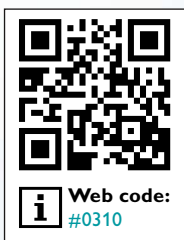
Test the ME-PLC series:

Sample set: 52003927

Get in touch with your contact person in Sales.

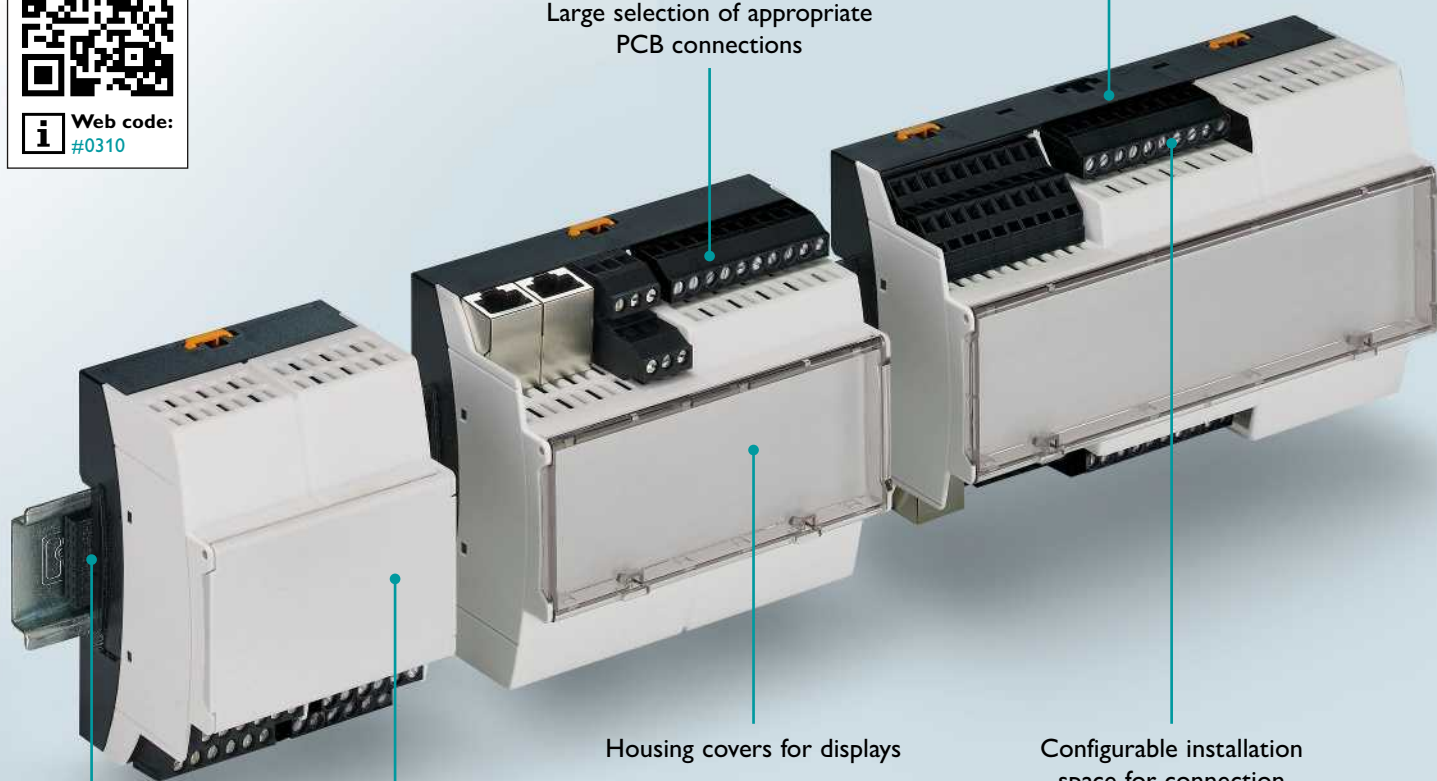
Modular BC building installation housings

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 series is suited for direct wall mounting or for use in installation distributors in accordance with DIN 43880.



Various overall widths from
17.8 mm to 161.6 mm

Large selection of appropriate
PCB connections




Optional DIN rail
connectors for efficient
modular communication

Conforms to
DIN 43880

Housing covers for displays

Configurable installation
space for connection
technology



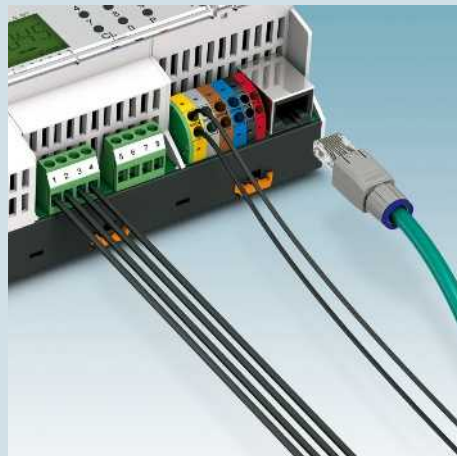
Integrate your electronics for building automation into modern housings of the BC series with the right connection technology. The housing can also be sealed for protection against unauthorized access.



Advantages at a glance



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



PCB terminal blocks and PCB connectors for signal, data, and power transmission










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

Configuration overview

BC series

i Web code: #0311

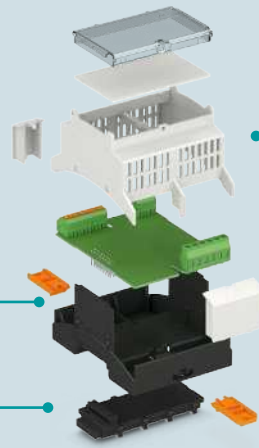
| 1 Lower housing part | | | 2 | | |
|--|-----------------|-----------|---|----------------|--|
| Lower housing part | Width | Order No. | 17.8 mm (1 HP) | 35.6 mm (2 HP) | |
| | | | | 11 mm | 22 mm |
|  | 17.8 mm (1 HP) | 2896241 |  2279732 ¹⁾ , 2896144 ²⁾ 2896102 ³⁾ | | |
| | 35.6 mm (2 HP) | 2896254 | | | 2896034 ¹⁾ , 2896157 ²⁾ 2896115 ³⁾ |
| | 53.6 mm (3 HP) | 2896403 | | | |
| | 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 | Number of positions | Slots for the PCB | 17.8 mm (1 HP) | 35.6 mm (2 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 | | |
|  | 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 | | |

Configuring the BC series

1 Select the lower housing part

3 Select bus connector







2 Select the matching upper housing part and cover

Test the BC series:

Sample set: 52005225

Get in touch with your contact person in Sales.

Upper housing part and housing cover

| 53.6 mm (3 HP) | | 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 | 11 mm | 22 mm |
|  | |  | |  | |  | |
| 2896416 ¹⁾ , 2896432 ²⁾ 2896445 ³⁾ | 2896429 ¹⁾ , 2896432 ²⁾ 2896445 ³⁾ | 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⁾ |

| 53.6 mm (3 HP) | | 71.6 mm (4 HP) | | 107.6 mm (6 HP) | | 161.6 mm (9 HP) | |
|--------------------|--|--------------------|--|--------------------|--|--------------------|--|
| 2896458 2200700 | | 2896296 2200700 | | 2896306 2200700 | | 2278555 2200700 | |

¹⁾ Upper housing part ²⁾ Light gray housing cover, securely snapped in ³⁾ Transparent housing cover incl. fitted cover

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

Configuration overview

Modular BC series

i Web code: #0675

| 1 Lower housing part | | | 2 Upper housing part and housing cover | | |
|---|--|---------------------------------------|--|-----------------------|--|
| Lower housing part | 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 | | | Configurable ¹⁾ 2896173 ²⁾ 2896131 ³⁾ |
| | 161.6 mm (9 HP) | 2278500 | | | 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⁾ |

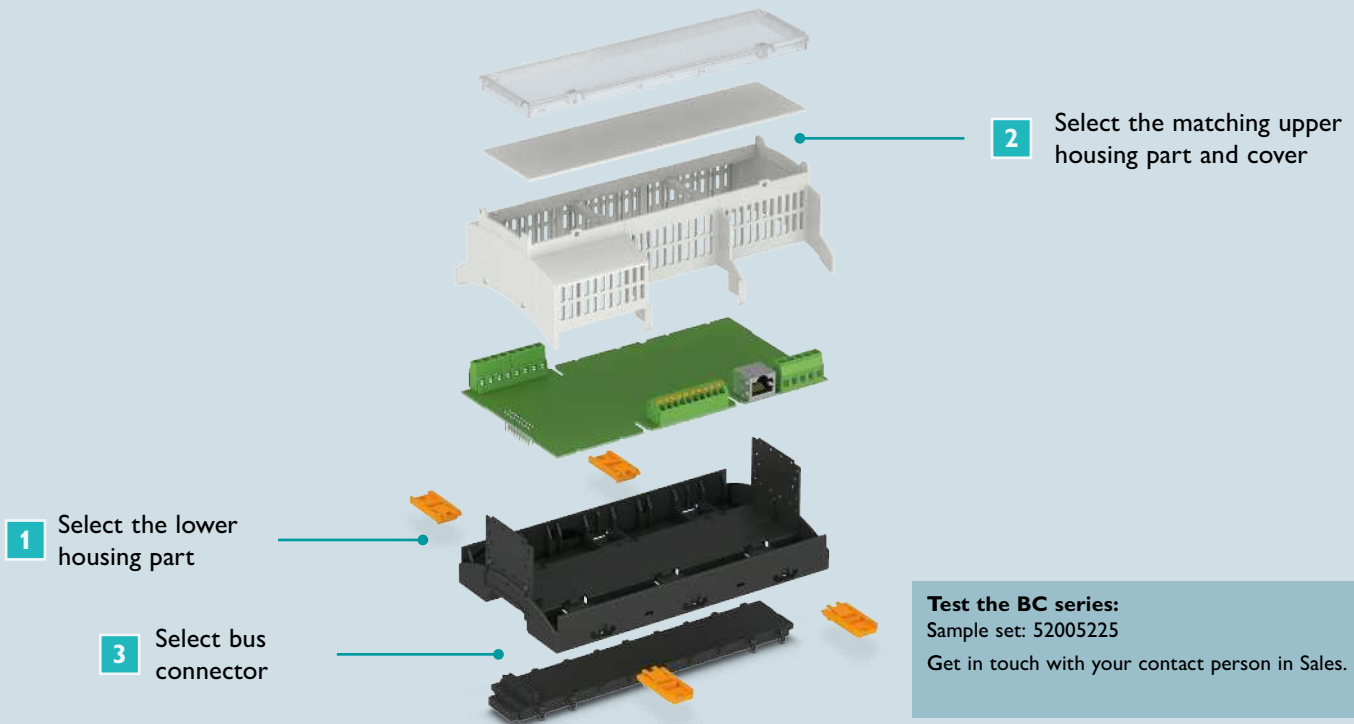
¹⁾ Modular upper housing part

²⁾ Light gray housing cover, securely snapped in

³⁾ Housing cover can be swiveled

⁴⁾ Suitable pin strip for contacting in the HBUS 2200700

Configuring the BC modular series



Example configuration

Configure the modular upper housing part and select the housing cover

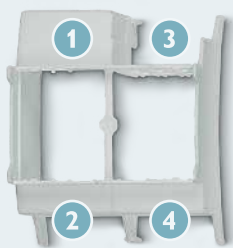
Three terminal block installation depths can be selected for each of the positions 1-6

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

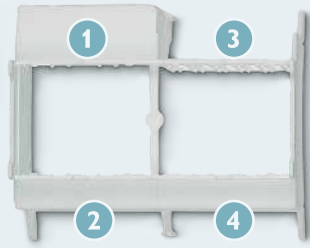
22 mm – The side panel is at the innermost position for maximum space for the connection technology

Overall width 71.6 (4 HP)



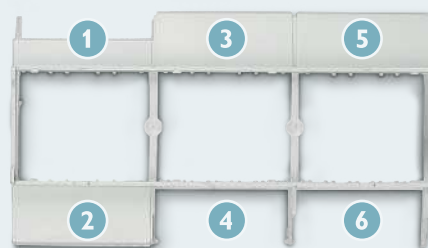
Order code
(example for depiction)
BC 71,6 OT 0 1 2 1

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 |
| | 1 | 2 | 3 | 4 |
| Designation and overall width | | | | |
| | Terminal installation depth: 0=0 mm, 1=11 mm, 2=22 mm | | | |

Configuration overview BC series















PCB terminal blocks and PCB connectors

4 Connection technology for a max. number of positions per side

 Web code: #0311



Pcs. 17,8 Pcs. 35,6 U11 Pcs. 35,6 U22





| | Connection technology | Pitch value | Cross section ¹⁾ | Pcs. | 17,8 | Pcs. | 35,6 U11 | Pcs. | 35,6 U22 |
|---|--|-------------|-----------------------------|------|---------|------|----------|------|----------|
|  | Filler plug for unassembled, largest segment | | | 2 | 2854115 | 1 | 2896209 | 1 | 2896212 |
| 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 |
| | MKDSN 2,5/... HT | 5.0 mm | 2.5 mm ² | | | 2 | 1985933 | 2 | 1985933 |
| For wave soldering processes | | | | | | | | | |
|  | MKDS 1,5/... | 5.0 mm | 1.5 mm ² | | | 2 | 1715035 | 2 | 1715035 |
| | MKDSN 2,5/... | 5.0 mm | 2.5 mm ² | | | 2 | 1890976 | 2 | 1890976 |
| | MKKDSH 3/... | 5.0 mm | 2.5 mm ² | | | 2 | 1721346 | 2 | 1721346 |
| For wave soldering processes | | | | | | | | | |
|  | GMKDS 1,5/... | 7.5 mm | 1.5 mm ² | | | 2 | 1717020 | 2 | 1717020 |
| | GMKDSP 3/... | 7.5 mm | 2.5 mm ² | | | 2 | 1732021 | 2 | 1732021 |
| 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 |
| | SPTA 1/...-5,0 | 5.0 mm | 1.0 mm ² | | | 1 | 1752256 | 1 | 1752256 |
| PCB terminal blocks with spring-cage connection | | | | | | | | | |
|  | ZFKKDS 1,5C-5,0 | 5.0 mm | 1.5 mm ² | | | | | 6 | 1889301 |
| PCB terminal blocks with double spring connection | | | | | | | | | |
|  | FK-MPT 0,5/...-3,5-H | 3.5 mm | 0.5 mm ² | | | 1 | 1928822 | 1 | 1928822 |
| | FK-MPT 0,5/...-ST-3,5 | 3.5 mm | 0.5 mm ² | | | 1 | 1913989 | 1 | 1913989 |
| PCB terminal blocks with spring connection | | | | | | | | | |
|  | PTSA 0,5/...-2,5-Z | 2.5 mm | 0.5 mm ² | | | 1 | 1990096 | 1 | 1990096 |
| | PTSA 0,5/...-2,5-F | 2.5 mm | 0.5 mm ² | | | 1 | 1989832 | 1 | 1989832 |
| | PTS 1,5/...-5,0-H | 5.0 mm | 2.5 mm ² | | | 1 | 1792902 | 1 | 1792902 |
| PCB terminal blocks with screw connection | | | | | | | | | |
|  | PT 1,5/...-5,0-H | 5.0 mm | 2.5 mm ² | | | 1 | 1935200 | 1 | 1935200 |
| | PT 1,5/...-PH-5,0 | 5.0 mm | 2.5 mm ² | | | 1 | 1755622 | 1 | 1755622 |
| 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 |
| RJ45 connection | | | | | | | | | |
|  | VS-08-BU-RJ45/LP-1 | | | | | | | 1 | 1420401 |

Test the BC series:

Sample set: 52005225

Get in touch with your contact person in Sales.

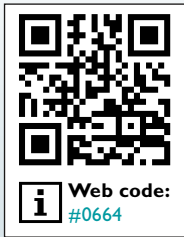
BC/BC modular

|  | |  | |  | |  | | | | | | | | | |
|---|----------|---|----------|---|----------|---|----------|------|-----------|------|-----------|---------|-----------|------|-----------|
| Pcs. | 53,6 U11 | Pcs. | 53,6 U22 | Pcs. | 71,6 U11 | Pcs. | 71,6 U22 | Pcs. | 107,6 U11 | Pcs. | 107,6 U22 | Pcs. | 161,6 U11 | Pcs. | 161,6 U22 |
| 1 | 2896225 | 1 | 2896238 | 2 | 2896209 | 2 | 2896212 | 2 | 2896225 | 2 | 2896238 | 3 | 2896225 | 3 | 2896238 |
| 3 | 1985894 | 3 | 1985894 | 4 | 1985894 | 4 | 1985849 | 6 | 1984950 | 6 | 1984950 | 9 | 1984950 | 9 | 1984950 |
| 3 | 1985933 | 3 | 1985933 | 4 | 1985933 | 4 | 1985933 | 6 | 1985933 | 6 | 1985933 | 9 | 1985933 | 9 | 1985933 |
| 3 | 1715035 | 3 | 1715035 | 4 | 1715035 | 4 | 1715035 | 6 | 1715035 | 6 | 1715035 | 9 | 1715035 | 9 | 1715035 |
| 3 | 1890976 | 3 | 1890976 | 4 | 1890976 | 4 | 1890976 | 6 | 1890976 | 6 | 1890976 | 9 | 1890976 | 9 | 1890976 |
| 3 | 1721346 | 3 | 1721346 | 4 | 1721346 | 4 | 1721346 | 6 | 1721346 | 6 | 1721346 | 9 | 1721346 | 9 | 1721346 |
| 2 | 1717033 | 2 | 1717033 | 4 | 1717020 | 4 | 1717020 | 4 | 1717033 | 4 | 1717033 | 6 | 1717033 | 4 | 1717033 |
| 2 | 1732034 | 2 | 1732034 | 4 | 1732021 | 4 | 1732021 | 4 | 1732034 | 4 | 1732034 | 6 | 1732034 | 4 | 1732034 |
| | | 3 | 1725025 | | 4 | 1725012 | | 6 | 1725025 | | 9 | 1725025 | | 9 | 1725025 |
| | | 3 | 1721087 | | 2 | 1721087 | | 6 | 1721087 | | 9 | 1721087 | | 9 | 1721087 |
| 1 | 1752201 | 1 | 1752201 | 2 | 1752162 | 2 | 1752162 | 2 | 1752201 | 2 | 1752201 | 3 | 1752201 | 3 | 1752201 |
| 1 | 1752298 | 1 | 1752298 | 2 | 1752256 | 2 | 1752256 | 2 | 1752298 | 2 | 1752298 | 3 | 1752298 | 3 | 1752298 |
| | | | 1889259 | | | 12 | 1889301 | | | | 1889259 | | | | 1889259 |
| 1 | 1928877 | 1 | 1928877 | 2 | 1928822 | 2 | 1928822 | 2 | 1928877 | 2 | 1928877 | 3 | 1928877 | 3 | 1928877 |
| 1 | 1914043 | 1 | 1914043 | 2 | 1913989 | 2 | 1913989 | 2 | 1914043 | 2 | 1914043 | 3 | 1914043 | 3 | 1914043 |
| 1 | 1990148 | 1 | 1990148 | 2 | 1990096 | 2 | 1990096 | 2 | 1990148 | 2 | 1990148 | 3 | 1990148 | 3 | 1990148 |
| 1 | 1989887 | 1 | 1989887 | 2 | 1989832 | 2 | 1989832 | 2 | 1989887 | 2 | 1989887 | 3 | 1989887 | 3 | 1989887 |
| 1 | 1792931 | 1 | 1792931 | 2 | 1792902 | 2 | 1792902 | 2 | 1792931 | 2 | 1792931 | 3 | 1792931 | 3 | 1792931 |
| 1 | 1935239 | 1 | 1935239 | 2 | 1935200 | 2 | 1935200 | 2 | 1935239 | 2 | 1935239 | 3 | 1935239 | 3 | 1935239 |
| 1 | 1755651 | 1 | 1755651 | 2 | 1755622 | 2 | 1755622 | 2 | 1755651 | 2 | 1755651 | 3 | 1755651 | 3 | 1755651 |
| | | 1 | 1725250 | | 2 | 1725185 | | 2 | 1725250 | | 3 | 1725250 | | 3 | 1725250 |
| | | 1 | 1725649 | | 2 | 1725549 | | 2 | 1725649 | | 3 | 1725649 | | 3 | 1725649 |
| | | 1 | 1704547 | | 2 | 1704521 | | 2 | 1704547 | | 3 | 1704547 | | 3 | 1704547 |
| 1 | 1933257 | 1 | 1933257 | 2 | 1933228 | 2 | 1933228 | 2 | 1933257 | 2 | 1933257 | 3 | 1933257 | 3 | 1933257 |
| | | 1 | 1420401 | | 2 | 1420401 | | 2 | 1420401 | | 3 | 1420401 | | 3 | 1420401 |

¹⁾ Based on stranded conductors, additional connection technology possible

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.



Optional PCB connections for additional functions

Cables can be fed in directly from the cable duct

Integrated wall mount

Optional DIN rail connectors for efficient modular communication

Implement individual electronics solutions with Raspberry Pi. The standard-compliant design of the RPI-BC series is ideally suited for installation devices.



Advantages at a glance



Individual function extensions due to optional interfaces and additional accessories



Quick, tool-free assembly, thanks to easy latching of the housing elements



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

Configuration overview

RPI-BC series

i Web code: #0664

| | | Description | Type | Order No. |
|----------------------------|---|--|-------------------------------|-----------|
| RPI-BC, set | | | | |
| |  | 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 |
| RPI-BC, individual | | | | |
| 1 |  | 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 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 |  | 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 |
| 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 |
| 4 |  | 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 |

Configuring the RPI-BC series

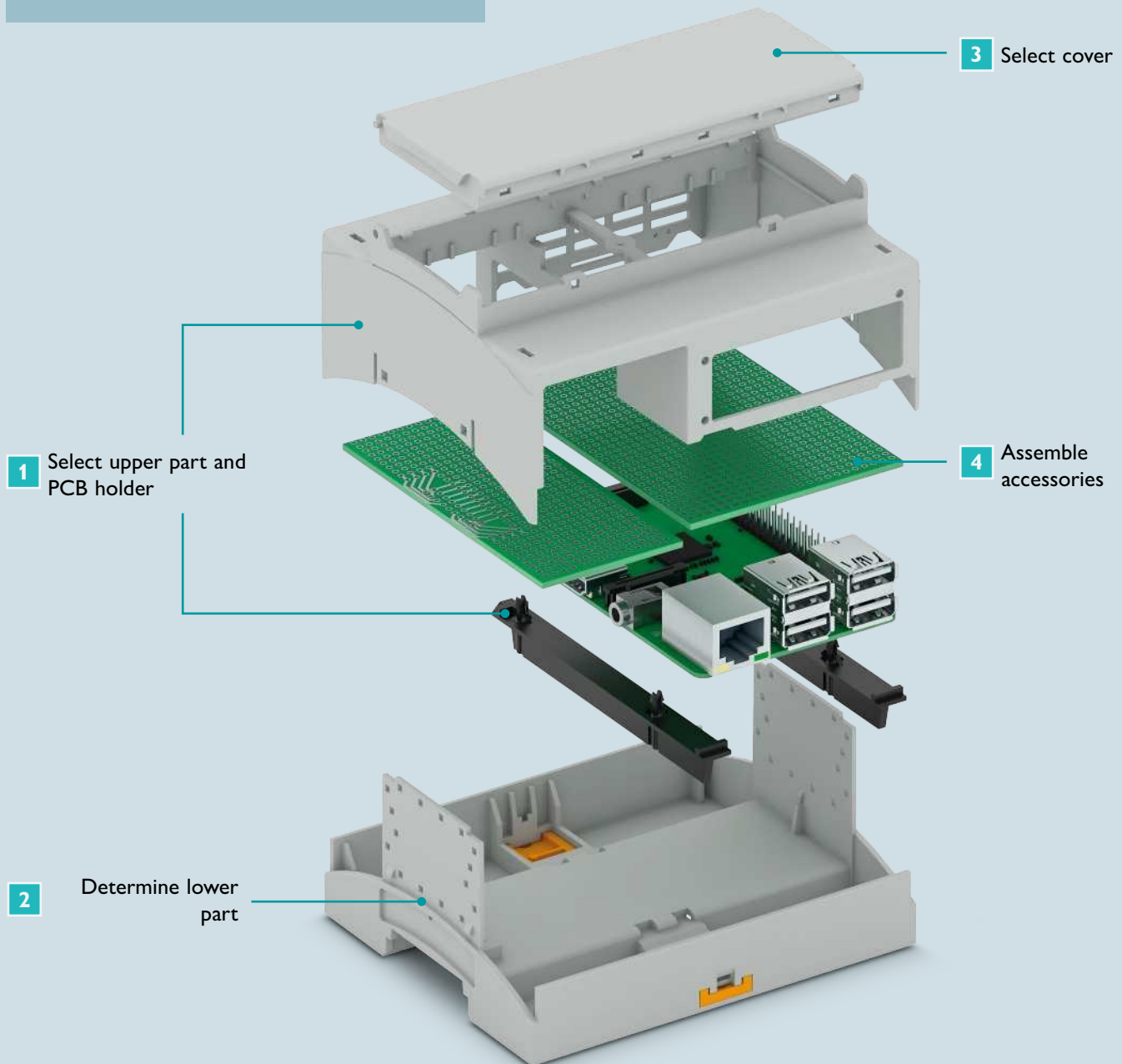
Test the RPI-BC series:

Sample set: 52007812

Get in touch with your contact person in Sales.

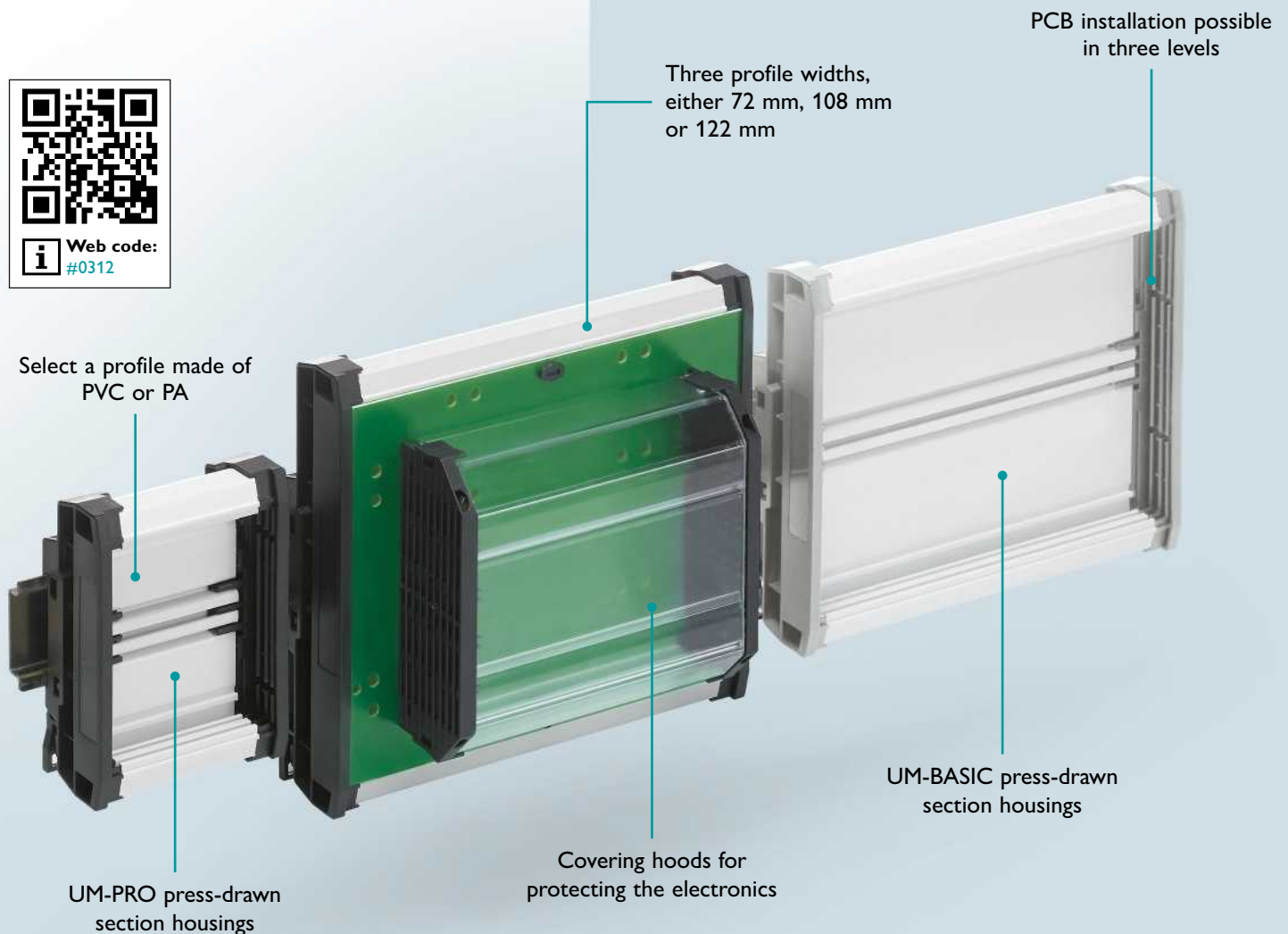
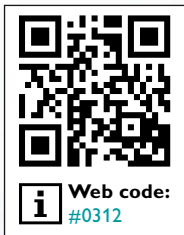
Compatible with Raspberry Pi

A+, B+, B2, and B3



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 device concepts.



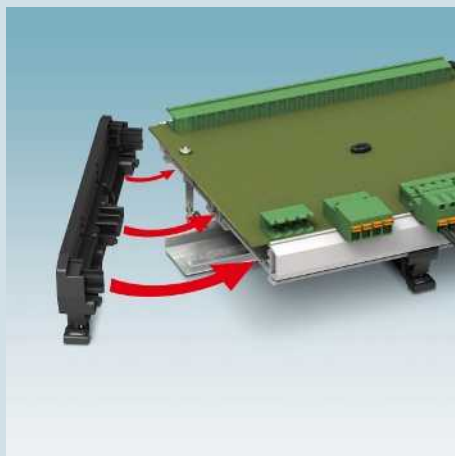
For industrial electronics, it all comes down to flexibility, functional design, and speed of installation. The selection of suitable materials based on temperature requirements is also a decisive factor. Press-drawn section housings offer efficient solutions.



Advantages at a glance



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



Tool-free device assembly using the snap-mount principle




High degree of flexibility, thanks to freely positionable covering hoods

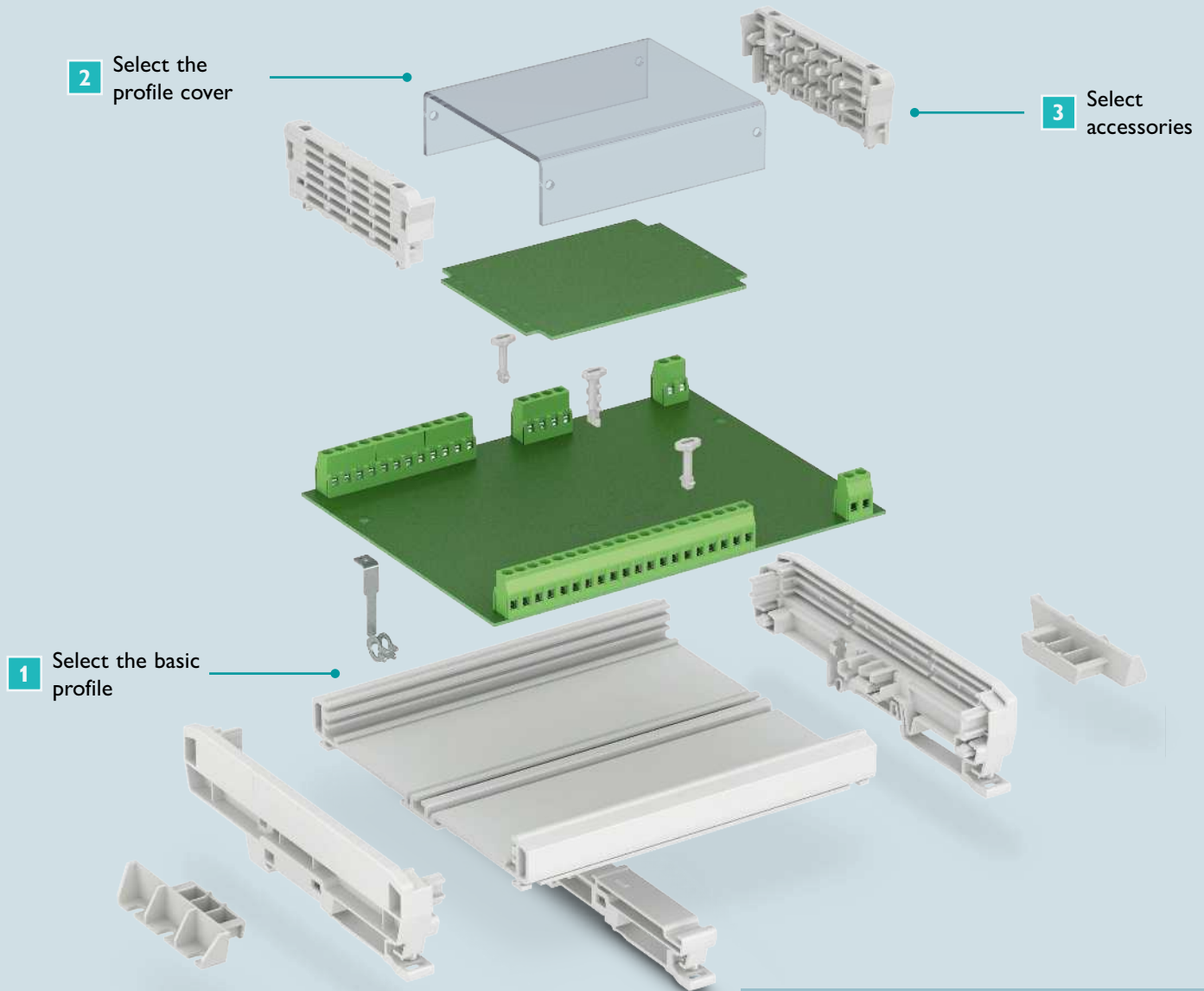
Configuration overview

UM-BASIC series

i Web code: #0313

| | Description | Type | UM-BASIC profile Profile width (inner) | | |
|----------|---|---------------------------------|---|---------|---------|
| | | |  | | |
| | Basic profile, PVC insulation material, temperature range: -40°C to +50°C | | 72 mm | 108 mm | 122 mm |
| | Order key for UM-BASIC profiles | | | | |
| | Order No. Profile width Length [cm] Color | | | | |
| | Example: 2200148 / UM-BASIC 72 / 14.3 / GY7035 | | | | |
| 1 | PVC profile, profile length customer-specific according to order key, color: light gray | UM-BASIC PROFILES | 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 |
| | Profile cover, PC insulating material | | | | |
| | Order key for U-shaped profile covers | | | | |
| | Order No. Cover Length [cm] | | | | |
| | Example: 2202036 / AU 73 / 14.1 | | | | |
| 2 | U-shaped profile cover, low version, 73 mm wide, color: transparent | UM-BASIC/PRO A/U N 73 CM | 2202035 | 2202035 | 2202035 |
| | U-shaped profile cover, tall version, 73 mm wide, color: transparent | UM-BASIC/PRO A/U 73 CM | 2202036 | 2202036 | 2202036 |
| | U-shaped profile cover, 92 mm wide, color: transparent | UM-BASIC/PRO A/U 92 CM | 2202037 | 2202037 | 2202037 |
| | Latching cover for UM-BASIC A/U N 73 CM U-shaped profile cover, color: light gray | UM-BASIC/PRO LID-73N KMGY | 2202034 | 2202034 | 2202034 |
| | Latching cover for UM-BASIC A/U 73 CM U-shaped profile cover, color: light gray | UM-BASIC/PRO LID-73 KMGY | 2202033 | 2202033 | 2202033 |
| | Latching cover for UM-BASIC A/U N 92 CM U-shaped profile cover, color: light gray | UM-BASIC/PRO LID-92 KMGY | 2202047 | 2202047 | 2202047 |
| | PE contact metals, including mounting screw | | | | |
| | Top PCB level version | UM-BASIC/PRO PE CONTACT L1 | 2202025 | 2202025 | 2202025 |
| | Middle PCB level version | UM-BASIC/PRO PE CONTACT L2 | 2202026 | 2202026 | 2202026 |
| | Bottom PCB level version | UM-BASIC/PRO PE CONTACT L3 | 2202027 | 2202027 | 2202027 |
| | Additional elements for securing the PCB | | | | |
| 3 | Top PCB version, lateral, color: light gray | UM-BASIC/PRO PCB S-LOCK KMGY | 2202031 | 2202031 | 2202031 |
| | Top PCB version, center, color: light gray | UM-BASIC/PRO PCB C-LOCK L1 KMGY | 2202028 | 2202028 | 2202028 |
| | Middle PCB version, center, color: light gray | UM-BASIC/PRO PCB C-LOCK L2 KMGY | 2202029 | 2202029 | 2202029 |
| | Bottom PCB version, center, color: light gray | UM-BASIC/PRO PCB C-LOCK L3 KMGY | 2202030 | 2202030 | 2202030 |
| | Mounting flange, for direct wall mounting, color: light gray | UM-BASIC/PRO MOUNT KMGY | 2202032 | 2202032 | 2202032 |
| | Foot element for DIN rail for mounting under UM-BASIC PROFILE, color: light gray | UM-BASIC/PRO ... FOOT KMGY | 2202020 | 2202023 | 2202024 |
| | Bladed screwdriver | SZF 0-0,4X2,5 | 1204504 | 1204504 | 1204504 |

Configuring the UM-BASIC series



Test the UM-BASIC series:

Sample set: 52005309

Get in touch with your contact person in Sales.

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.

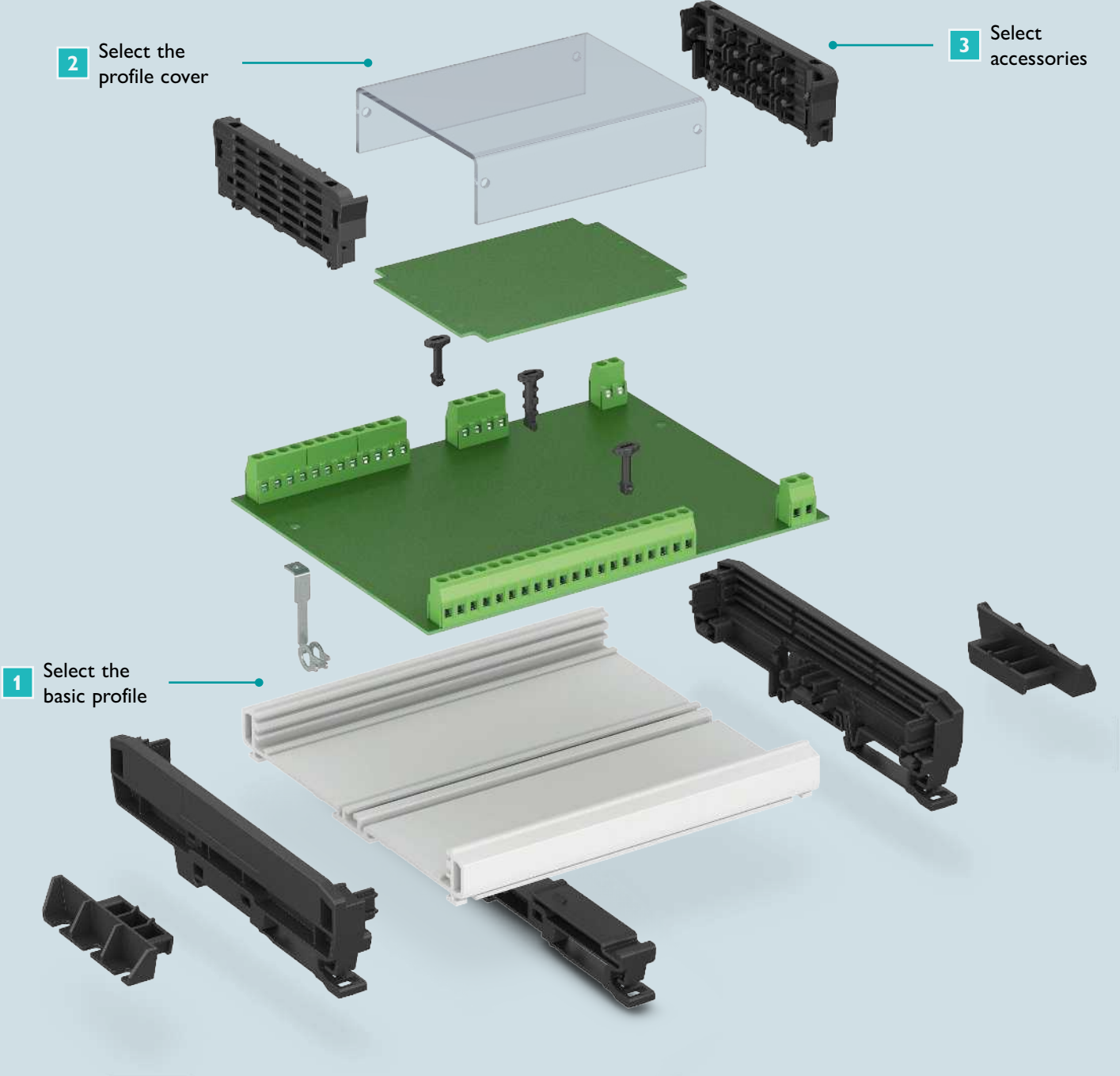
Configuration overview

UM-PRO series

i Web code: #0314

| | Description | Type | UM-PRO profile Profile width (inner) | | |
|----------|---|-------------------------|---|---------|---------|
| | | |  | | |
| | Basic profile, PA insulation material, temperature range: -40°C to +100°C | | 72 mm | 108 mm | 122 mm |
| | Order key for UM-BASIC profiles | | | | |
| | Order No. Profile width Length [cm] Color | | | | |
| | Example: 2200149 / UM-PRO 72 / 14.3 / GY7035 | | | | |
| 1 | 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 |
| | Profile cover | | | | |
| | Order key for U-shaped profile covers | | | | |
| | Order No. Cover Length [cm] | | | | |
| | Example: 2200311 / AU 73 / 14.1 | | | | |
| 2 | 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 |
| | PE contact metals, including mounting screw | | | | |
| | Top PCB level version | UM-PRO PE CONTACT L1 | 2200161 | 2200161 | 2200161 |
| | Middle PCB level version | UM-PRO PE CONTACT L2 | 2200162 | 2200162 | 2200162 |
| | Bottom PCB level version | UM-PRO PE CONTACT L3 | 2200163 | 2200163 | 2200163 |
| | Additional elements for securing the PCB | | | | |
| 3 | Top PCB version, lateral, color: black | UM-PRO PCB S-LOCK BK | 2200168 | 2200168 | 2200168 |
| | Top PCB version, center, color: black | UM-PRO PCB C-LOCK L1 BK | 2200164 | 2200164 | 2200164 |
| | Middle PCB version, center, color: black | UM-PRO PCB C-LOCK L3 BK | 2200165 | 2200165 | 2200165 |
| | Bottom PCB version, center, color: black | UM-PRO PCB C-LOCK L2 BK | 2200166 | 2200166 | 2200166 |
| | Mounting flange, for direct wall mounting, color: black | UM-PRO MOUNT BK | 2200171 | 2200171 | 2200171 |
| | Foot element for DIN rail for mounting under UM-PRO PROFILE, color: black | UM-PRO ... FOOT BK | 2200153 | 2200157 | 2200160 |
| | Bladed screwdriver | SZF 0-0,4X2,5 | 1204504 | 1204504 | 1204504 |

Configuring the UM-PRO series

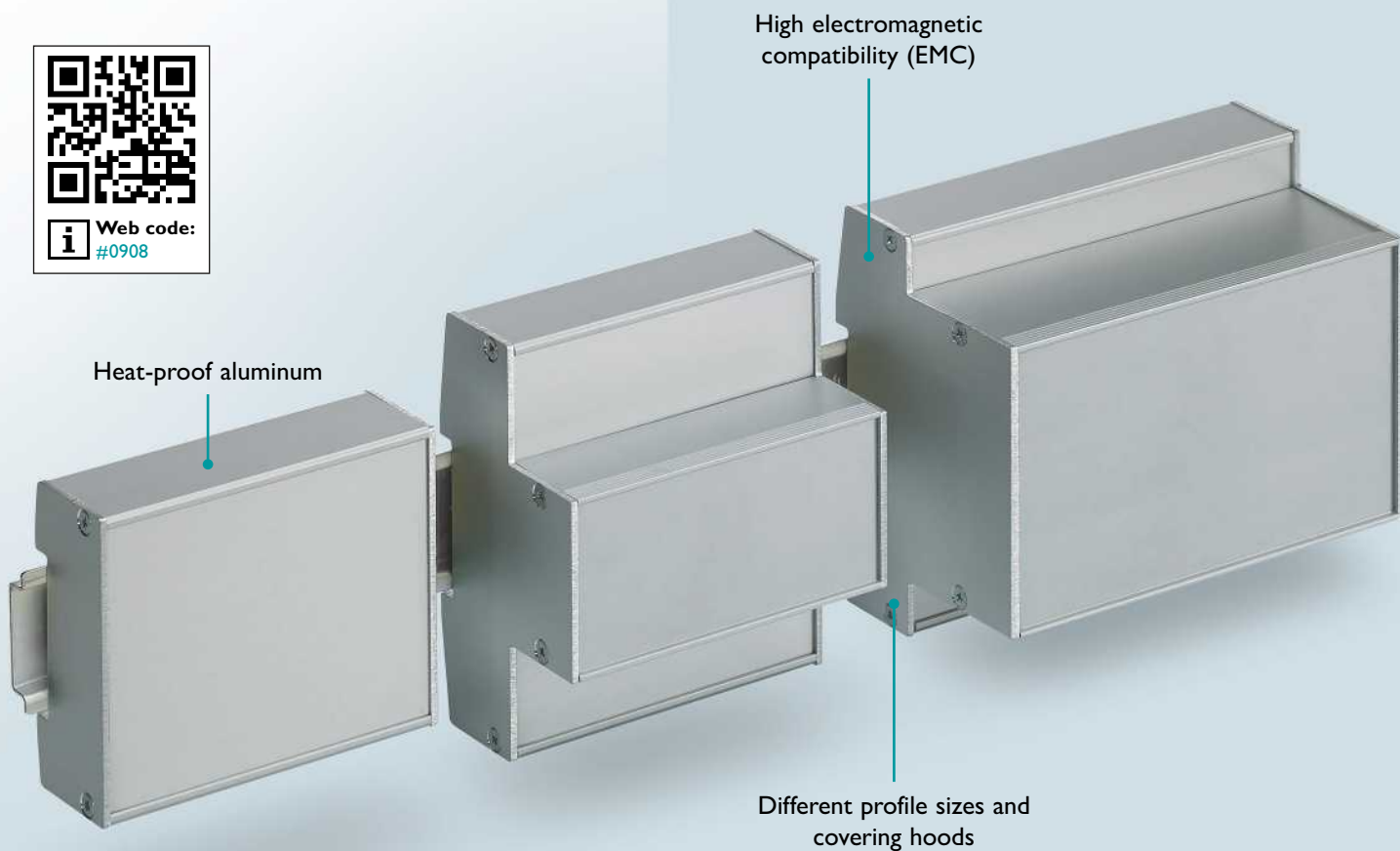
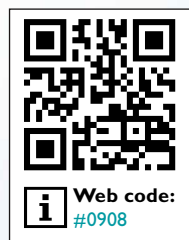


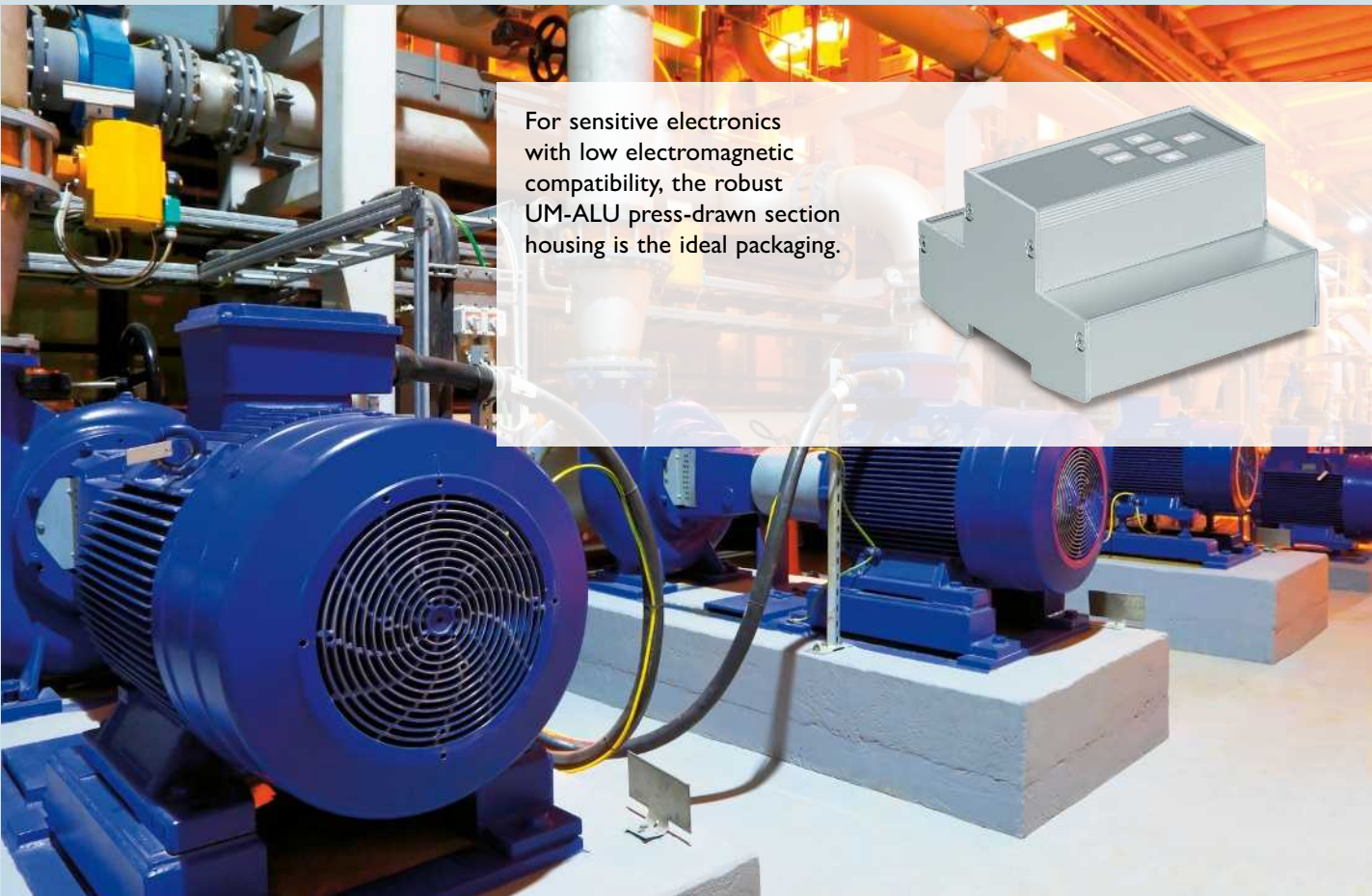
Test the UM-PRO series:
Sample set: 52005226
Get in touch with your contact person in Sales.

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

The UM-ALU housing system is completely made of aluminum, offers high electromagnetic compatibility (EMC), and ensures total flexibility during assembly.

The housings are especially suited for industrial environments with high electromagnetic interference potential.





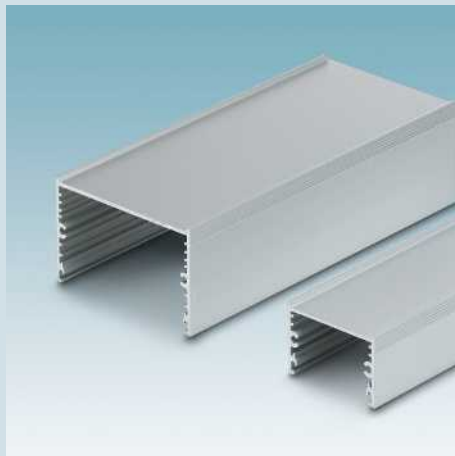
For sensitive electronics with low electromagnetic compatibility, the robust UM-ALU press-drawn section housing is the ideal packaging.



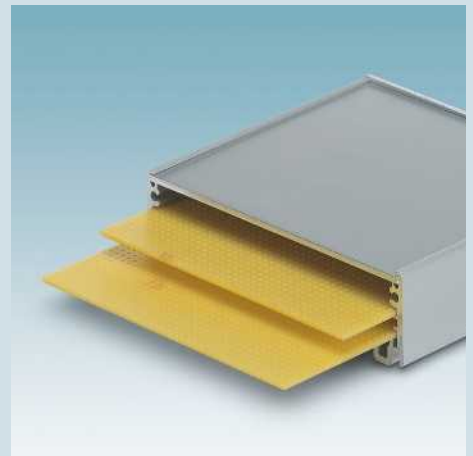
Advantages at a glance



Heat-proof aluminum for optimal protection of sensitive electronics



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




PCB installation in up to seven levels for application-appropriate electronics assemblies

Configuration overview

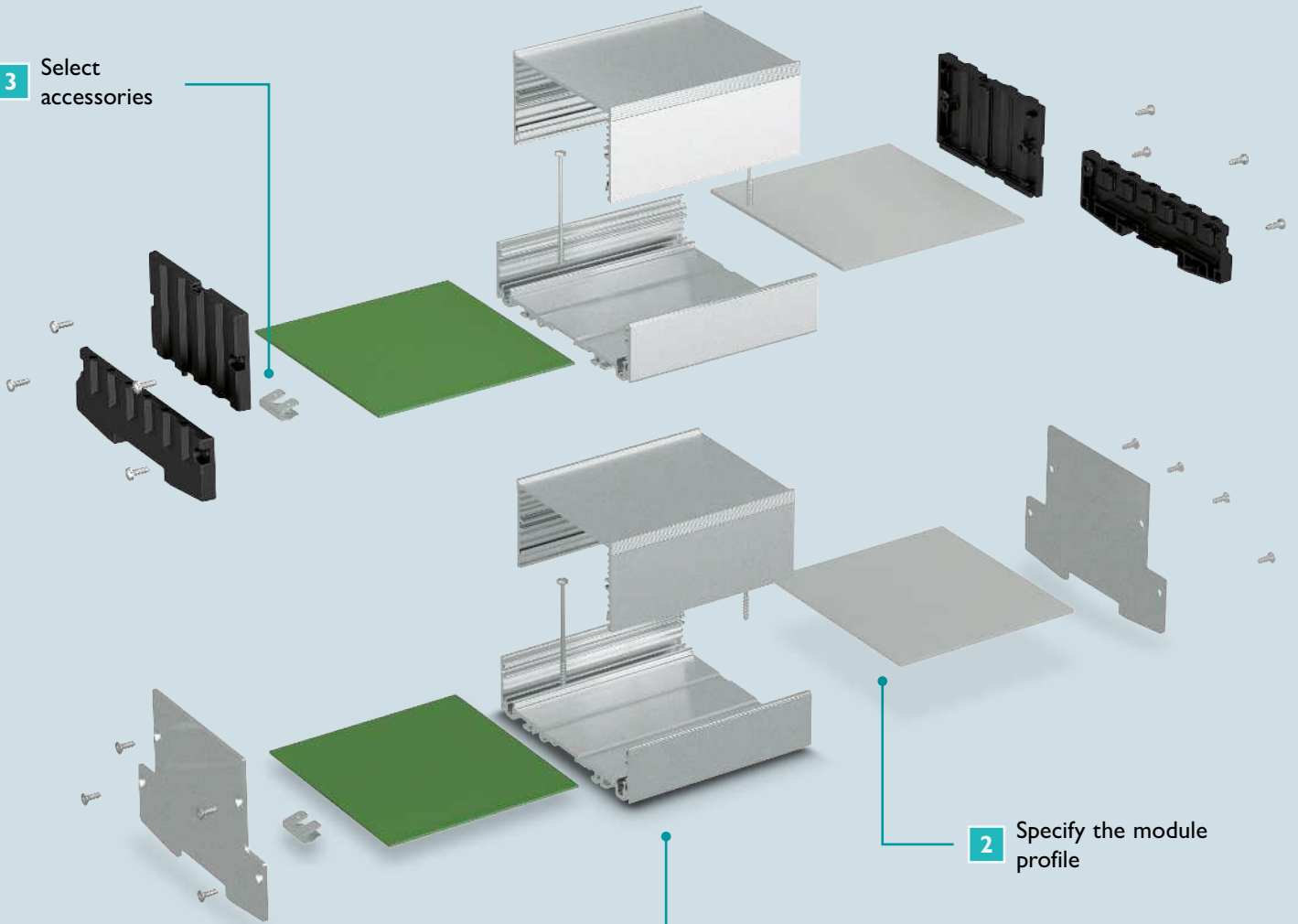
UM-ALU series

i Web code: #0315

| | Description | Type | Profile width (internal) | |
|----------|--|------------------------------|---|--------------------|
| | | | 72 mm | 100.5 mm |
| | | |  | |
| | One-piece basic profile, anodized aluminum | | | |
| | 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 |
| 1 | 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 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 75 mm | UM-ALU 4- ... COVERLID 75 AL | 2202085 | 2201760 |
| | 2 lateral plates on the left and right, incl. snap-on foot, black polyamide | | | |
| | 2 lateral plates on the left and right, incl. snap-on foot, black polyamide | UM-ALU 4- ... COVER PA BK | 2200934 | 2200952 |
| | Profile covers, anodized aluminum (both profile covers can be used with either UM-ALU 72 or UM-ALU 100,5) | | 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 |
| 2 | 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 |
| | Accessories | | | |
| 3 | 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 |

Configuring the UM-ALU series

3 Select accessories



1 Select the basic profile and lateral plates

2 Specify the module profile



Test the UM-ALU series:




Sample set: 52002012

Get in touch with your contact person in Sales.

Overview

Field housings

| | | Field housings | |
|--|---|---|---|
| | |  |  |
| | i Web code: | #0925 | #0856 |
| | Sample set | 52002014 | |
| Housing range | | HC-ALU | HCS |
| Mounting | On DIN rail DIN EN 60715 | | |
| | Other | Handheld Wall mounting | Handheld |
| Temperature range for operation | [°C] | -40 ... +70 | -20 ... +80 |
| Degree of protection (max.) | In accordance with DIN EN 60529 NEMA | IP65 | IP54 |
| Shock resistance | | | |
| Dimensions | Width [mm] | Profile length 100/150/200/1000 | 110 ... 253 |
| | Depth [mm] | 33 | 26 ... 40 |
| | Height [mm] | 53.5/78/100.5/161 | 70.5 ... 116 |
| PCB surface | Max. usable surface [mm ²] per PCB | 5000 ... 158000 | 5700 ... 22000 |
| Power dissipation | [W] | | |
| Cooling | | | |
| Display integration | | Yes | Yes |
| Membrane keypad installation | | Yes | Yes |
| Light guide integration | | Possibly limited | Possibly limited |
| PCB connection | | Optional configuration, e.g. with M12 panel feed-throughs | |
| Variability | Stackable | | |
| | Side walls can be replaced | | |
| | Collision protection | | |
| Material | Designation | Profile: Anodized aluminum (Al Mg Si0.5) Cover: Zinc die-cast (Z 410) | ABS (acrylonitrile butadiene styrene copolymer) |
| | Flammability rating | | V0 (UL94) |

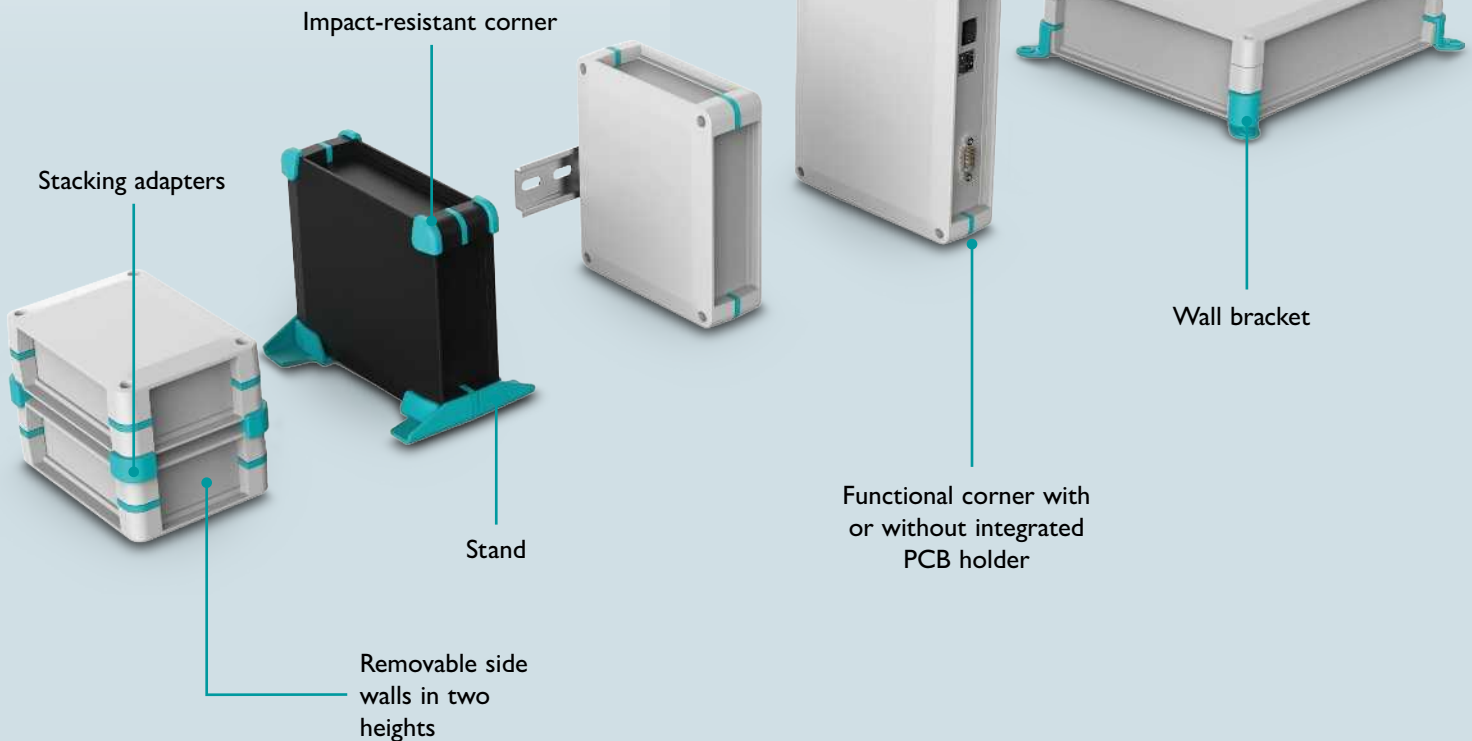
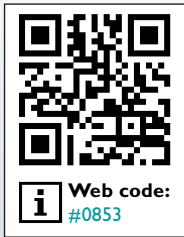
| | Display holders | Universal housings |
|---|---|---|
|  |  |  |
| #0858 | #0860 | #0854 |
| 52008541 | | 52008272 |
| ECS | DCS | UCS |
| | | NS35 ¹⁾ |
| Wall or mast mounting | Handheld Wall mounting (VESA 75+100) | Wall mounting, tabletop operation |
| -40 ... +85 | -20 ... +80 | -40 ... +85 |
| IP69 (IP69K in accordance with ISO 20653) | IP54 | IP40 |
| IK 08 | | |
| 163/196 | 180 ... 362 | 125 / 145 / 195 / 237 ¹⁾ |
| 180 | 46 ... 62 | 47 / 67 |
| 64 | 120 ... 286 | 87 / 125 / 145 / 195 ¹⁾ |
| 12800 ... 15400 | 18900 ... 93000 | 6000 ... 35800 ²⁾ |
| | | 9 / 11 / 20 / 30 |
| | | Optional |
| No | Yes | Yes |
| No | Yes (partially) | Yes |
| No | Possibly limited | Yes |
| 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 |
| | | Optional |
| | | Yes |
| | | Optional |
| PC (polycarbonate) | ABS (acrylonitrile butadiene styrene copolymer) | PC (polycarbonate) |
| V0 (UL94) | V0 (UL94) | V0 (UL94) |


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

²⁾ One PCB per housing half

UCS universal housings for embedded systems

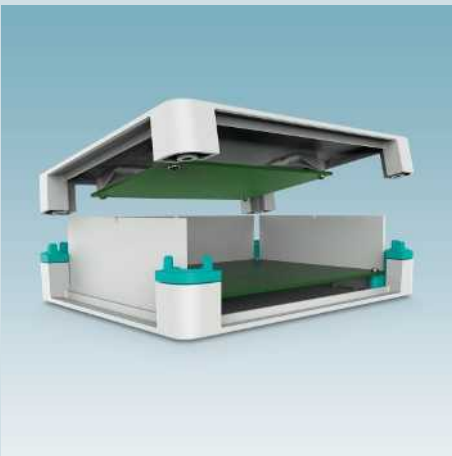
The UCS universal electronics housing is specifically designed for PCBs specified by form factor in embedded systems. The electronics housings stand out in particular due to the flexible PCB mount and the wide range of application possibilities.



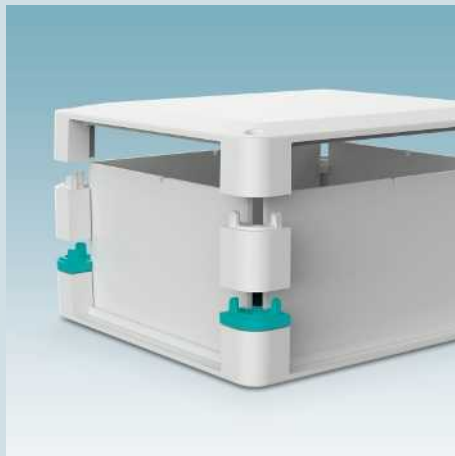


Manufacturers of various devices need application-specific electronics housings. The UCS housing series offers an adjustable, universal solution.

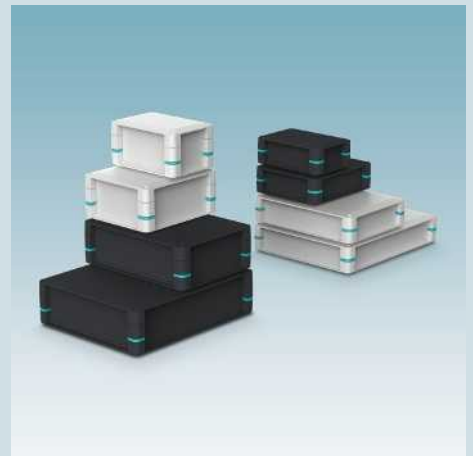
Advantages at a glance



Integrated or flexible PCB mount for variable electronics solutions



Design-oriented functional corners for appealing look and feel



Modular system for highest adaptivity and simple storage






Configuration overview

UCS series

i Web code: #0854

2 Complete housing

Scope of delivery for complete housing:
the UCS complete housings all contain housing parts and screws required for mounting a PCB.

| | | | | UCS 125-87 ... | | | UCS 145-125 ... | |
|---|----------------------------------|---------------------|----------------------|---|--|---|---|---|
| | | | |  |  | New  |  |  |
| | | | | UCS 125-87-F-GD ... | UCS 125-87-H-GD ... | UCS 125-87-F-GD-RPI ... | UCS 145-125-F-GD ... | UCS 145-125-H-GD ... |
| | | | | Depth 47 mm | Depth 67 mm | Depth 47 mm | Depth 47 mm | Depth 67 mm |
| 1 | PCB mount | Form factor / PCB | Color | 2203328 | 2203331 | 1019724 | 2203332 | 2203334 |
| | | | Gray (RAL 7035) | 2203329 | 2203330 | 1019723 | 2203333 | 2203335 |
| | | Raspberry Pi | | • | • | • | | |
| | | ETX | | | | | • | • |
| | | PC/104 | | | | | • | • |
| | | Pico ITX | | | | | • | • |
| | | EPIC | | | | | | |
| | | Nano ITX | | | | | | |
| | | Mini DTX | | | | | | |
| | | Mini ITX | | | | | | |
| | EBX | | | | | | | |
| | | | | UCS 125-87-F-CCD ... | UCS 125-87-H-CCD ... | | UCS 145-125-F-CCD ... | UCS 145-125-H-CCD ... |
| | PCB mount | Form factor / PCB | Color | Depth 47 mm | Depth 67 mm | | Depth 47 mm | Depth 67 mm |
| | | | Gray (RAL 7035) | 2203443 | 2203445 | | 2203447 | 2203450 |
| | | 211.8 mm x 169.8 mm | | | | | | |
| | | 169.8 mm x 120 mm | | | | | | |
| | | 120 mm x 100 mm | | | | | • | • |
| | | 100 mm x 62 mm | | • | • | | | |
| | | | Black (RAL 9005) | 2203444 | 2203446 | | 2203448 | 2203451 |
| | | 211.8 mm x 169.8 mm | | | | | | |
| | | 169.8 mm x 120 mm | | | | | | |
| | | 120 mm x 100 mm | | | | | • | • |
| | | 100 mm x 62 mm | | • | • | | | |
| 3 | Basic wall bracket ³⁾ | Order No. | Color | 47 mm | 67 mm | 47 mm | 47 mm | 67 mm |
| | UCS WM-B 7035 | 2203718 | Gray (RAL 7035) | • | • | • | • | • |
| | UCS WM-B 9005 | 2203719 | Black (RAL 9005) | • | • | • | • | • |
| | UCS WM-B 5018 | 2203391 | Turquoise (RAL 5018) | • | • | • | • | • |
| | Stand | Order No. | Color | 47 mm | 67 mm | 47 mm | 47 mm | 67 mm |
| | UCS PED 7035 | 2203392 | Gray (RAL 7035) | • | | • | • | |
| | UCS PED 9005 | 2203393 | Black (RAL 9005) | • | | • | • | |
| | UCS PED 5018 | 2202394 | Turquoise (RAL 5018) | • | | • | • | |
| | Collision protection corners | Order No. | Color | 47 mm | 67 mm | 47 mm | 47 mm | 67 mm |
| | UCS CP 7035 | 2203346 | Gray (RAL 7035) | • | • | • | • | • |
| | UCS CP 9005 | 2203347 | Black (RAL 9005) | • | • | • | • | • |
| | UCS CP 5018 | 2203348 | Turquoise (RAL 5018) | • | • | • | • | • |
| | Stack corners | Order No. | Color | 47 mm | 67 mm | 47 mm | 47 mm | 67 mm |
| | UCS CS 7035 | 2203720 | Gray (RAL 7035) | • | • | • | • | • |
| | UCS CS 9005 | 2203721 | Black (RAL 9005) | • | • | • | • | • |
| | UCS CS 5018 | 1029039 | Turquoise (RAL 5018) | • | • | • | • | • |

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.

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

Configuration overview

UCS series

i Web code: #0854

1

| | | |
|-------------|---|----------------------------|
| Designation | UCS HH 125-87 | |
| |  | |
| Color | Light gray (sim. RAL 7035) | Black, similar to RAL 9005 |
| Order No. | 2203349 | 2203350 |

2

Side walls

| Designation | Length | Height | Color | | |
|----------------|--------|--------|----------|-----------|------------------------|
| | | | Gray; PC | Black; PC | Aluminum ²⁾ |
| UCS SW 87 ... | 87 | 47 | 2203358 | 2203359 | 2203360 |
| | | 67 | 2203361 | 2203362 | 2203363 |
| UCS SW 125 ... | 125 | 47 | 2203364 | 2203365 | 2203366 |
| | | 67 | 2203367 | 2203369 | 2203370 |
| UCS SW 145 ... | 145 | 47 | 2203372 | 2203373 | 2203374 |
| | | 67 | 2203375 | 2203376 | 2203377 |
| UCS SW 195 ... | 195 | 47 | 2203378 | 2203379 | 2203380 |
| | | 67 | 2203381 | 2203382 | 2203383 |
| UCS SW 237 ... | 237 | 47 | 2203385 | 2203386 | 2203387 |
| | | 67 | 2203388 | 2203389 | 2203390 |

3

Height adapter (necessary in conjunction with tall side walls)

| Description | Designation | 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

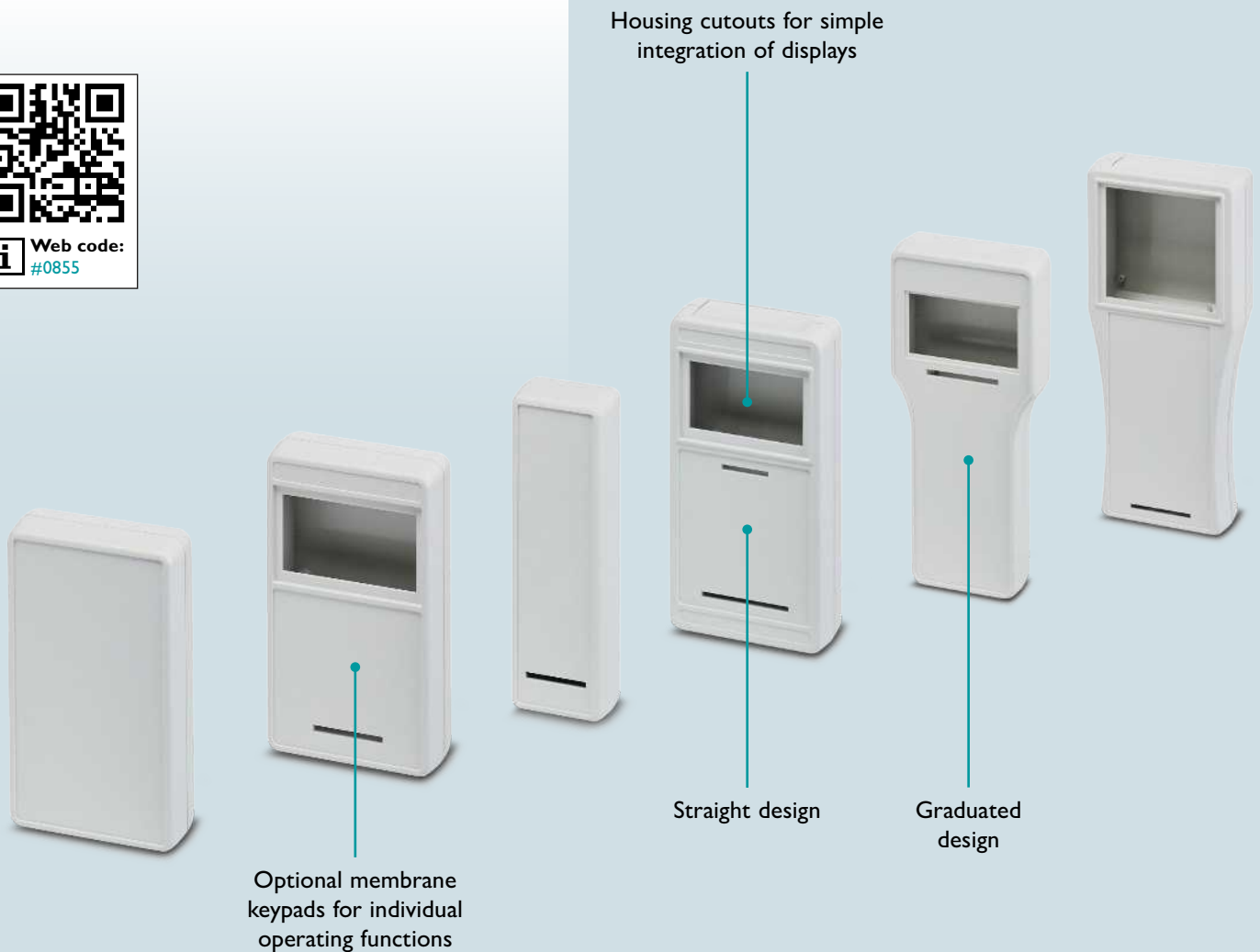
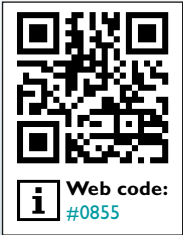
| Description | Designation | Order No. |
|--|---------------|-----------|
| 4 gray corner inserts including screws, flat ¹⁾ | UCS CC 7035 | 2203395 |
| 4 black corner inserts including screws, flat ¹⁾ | UCS CC 9005 | 2203396 |
| 4 turquoise-blue corner inserts including screws, flat ¹⁾ | UCS CC 5018 | 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 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 mounting the PCB (2203401)

²⁾ Brushed lengthwise

HCS handheld housings for portable devices

The ergonomic field housings of the HCS series are ideally suited 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.





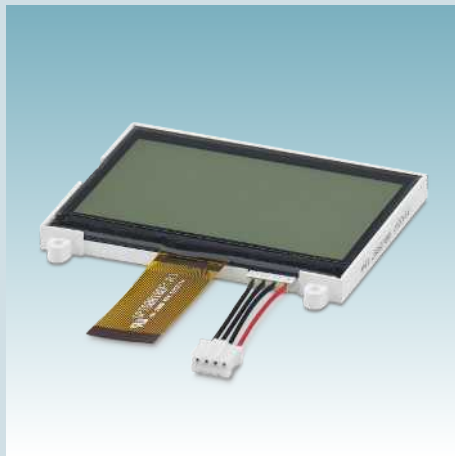
Lightweight, ergonomic operating panels are used where mobile process and status data need to be retrieved quickly and reliably. Handheld housings of the HCS series offer an efficient solution.



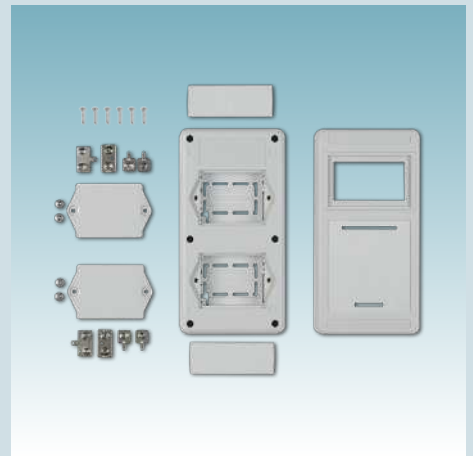
Advantages at a glance



Perfect membrane keypads, available even with custom specifications



Easy integration of displays



Standard versions for different device interfaces

Configuration overview

HCS series – Housings

i Web code: #0856

2

Housing

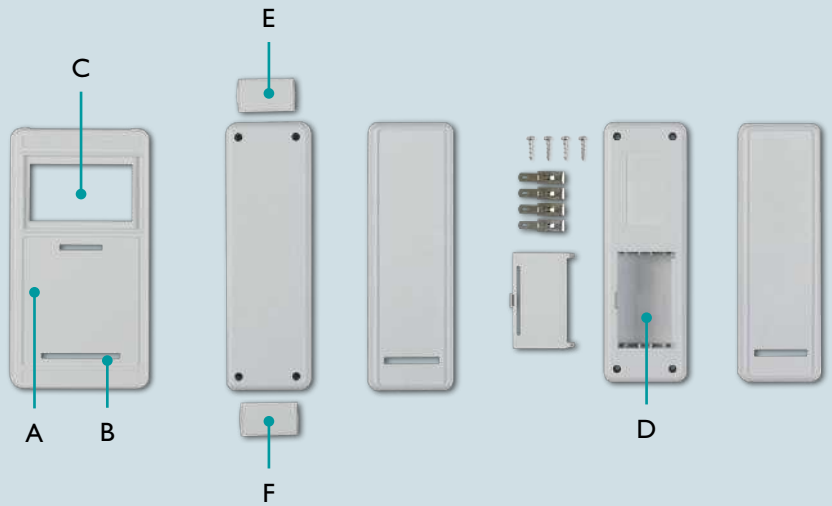
| Height | Width x depth(s) | Front side | | | Back side | Face end | | Type |
|----------|-------------------------|---------------|-------------------|--------------------|---------------------|----------|--------|-------------------------------|
| | | A | B | C | D | E | F | |
| | | Surface | Opening for cable | Window for display | Battery compartment | Top | Bottom | |
| 110 mm | 70.5 mm x 26 mm | Level | No | No | No | Closed | Closed | HCS-C MINI C C C C 7035 |
| | | Sunken 1.1 mm | Yes | Yes | No | Closed | Closed | HCS-C MINI 1W C C C 7035 |
| | | Sunken 1.1 mm | No | No | 9 V | Closed | Closed | HCS-C MINI 1 9V C C 7035 |
| | | Sunken 1.1 mm | Yes | Yes | 9 V | Open | Closed | HCS-C MINI 1W 9V 1 C 7035 |
| | | Level | No | No | 3 x AAA | Open | Open | HCS-C MINI C 3AAA 1 1 7035 |
| | | Sunken 1.1 mm | Yes | Yes | 3 x AAA | Open | Open | HCS-C MINI 1W 3AAA 1 1 7035 |
| 135 mm | 80 mm x 29 mm | Sunken 1.1 mm | Yes | Yes | No | Closed | Closed | HCS-C MINI-P 1W C C C 7035 |
| | | Sunken 1.1 mm | No | No | No | Open | Open | HCS-C MINI-P 1 C 1 1 7035 |
| | | Sunken 1.1 mm | Yes | Yes | No | Open | Open | HCS-C MINI-P 1W C 1 1 7035 |
| | | Sunken 1.1 mm | Yes | Yes | 2 x AA | Closed | Closed | HCS-C MINI-P 1W 2AA C C 7035 |
| | | Sunken 1.1 mm | No | No | 2 x 2 AA | Closed | Closed | HCS-C MINI-P 1 2x2AA C C 7035 |
| 150 mm | 48 mm x 28 mm | Level | No | No | No | Closed | Closed | HCS-T MICRO C C C C 7035 |
| | | Sunken 1.1 mm | No | No | No | Open | Open | HCS-T MICRO 1 C 1 1 7035 |
| | | Sunken 1.1 mm | Yes | No | No | Open | Open | HCS-T MICRO X C 1 1 7035 |
| | | Sunken 1.1 mm | Yes | No | 2 x AA | Closed | Closed | HCS-T MICRO X 2AA C C 7035 |
| | | Sunken 1.1 mm | Yes | No | 2 x AA | Open | Open | HCS-T MICRO X 2AA 1 1 7035 |
| | | Level | No | No | No | Closed | Closed | HCS-C MEDIUM C C C C 7035 |
| 164 mm | 87 mm x 31 mm | Level | No | No | No | Open | Open | HCS-C MEDIUM C C 1 1 7035 |
| | | Sunken 1.1 mm | Yes | Yes | No | Open | Closed | HCS-C MEDIUM 1W C 1 C 7035 |
| | | Sunken 1.1 mm | Yes | Yes | 3 x AA | Open | Open | HCS-C MEDIUM 1W 3AA 1 1 7035 |
| | | Level | No | No | No | Closed | Closed | HCS-T MINI C C C C 7035 |
| 182.5 mm | 85/62 mm x 30/25.2 mm | Sunken 1.1 mm | Yes | 62 x 32.6 | No | Closed | Closed | HCS-T MINI 1W C C C 7035 |
| | | Sunken 1.1 mm | Yes | 62 x 32.6 | 3 x AA | Closed | Closed | HCS-T MINI 1W 3AA C C 7035 |
| | | Level | No | No | No | Closed | Closed | HCS-C MAXI C C C C 7035 |
| | 94 mm x 39 mm | Sunken 1.1 mm | Yes | Yes | No | Closed | Closed | HCS-C MAXI 1W C C C 7035 |
| | | Sunken 1.1 mm | Yes | Yes | No | Open | Open | HCS-C MAXI 1W C 1 1 7035 |
| | | Sunken 1.1 mm | Yes | Yes | 2 x 3 AA | Open | Open | HCS-C MAXI 1W 6AA 1 1 7035 |
| | | Sunken 1.1 mm | Yes | Yes | 2 x 9 V | Open | Open | HCS-C MAXI 1W 2x9V 1 1 7035 |
| | | Level | No | No | No | Open | Open | HCS-T MEDIUM C C 1 1 7035 |
| | | Sunken 1.1 mm | Yes | 63 x 40 | No | Open | Open | HCS-T MEDIUM 1W C 1 1 7035 |
| 216 mm | 92/75/82 mm x 40/30 mm | Sunken 1.1 mm | Yes | 63 x 40 | No | Closed | Open | HCS-T MEDIUM 1W C C 1 7035 |
| | | Sunken 1.1 mm | Yes | 84 x 79 | No | Closed | Closed | HCS-T MAXI 1W C C C 7035 |
| | | Sunken 1.1 mm | Yes | 84 x 79 | No | Open | Open | HCS-T MAXI 1W C 1 1 7035 |
| 253 mm | 116/89/96 mm x 46/36 mm | Sunken 1.1 mm | Yes | 84 x 79 | 5 x AA | Open | Open | HCS-T MAXI 1W 5AA 1 1 7035 |



Configuring the HCS series

1 Select the housing dimensions









2 Specify the version/ type



| Graduated | Straight |
|--|---|
|  |  |
| Order No. | Order No. |
| | 2203146 |
| | 2203147 |
| | 2203149 |
| | 2203150 |
| | 2203151 |
| | 2203152 |
| | 2203153 |
| | 2203154 |
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| 2203137 | |
| 2203138 | |
| 2203139 | |
| 2203142 | |
| 2203143 | |
| 2203144 | |

Configuration overview





HCS series – Accessories

| | | Accessories | | | | |
|---|-------------------------------|---|---|---|---|---|
| | | Display ¹⁾ | Acrylic glass for display | Membrane keypad ²⁾ | IP54 seal kit ³⁾ (IEC/EN 60529) | Mounting kit for display |
|  Web code: #0856 | |  |  |  |  |  |
| Order No. | Type | | | | | |
| 2203146 | HCS-C MINI C C C C 7035 | | | | 2203575 | |
| 2203147 | HCS-C MINI 1W C C C 7035 | On request | On request | On request | 2203575 | |
| 2203149 | HCS-C MINI 1 9V C C 7035 | | | | | |
| 2203150 | HCS-C MINI 1W 9V 1 C 7035 | On request | On request | On request | | |
| 2203151 | HCS-C MINI C 3AAA 1 1 7035 | | | | | |
| 2203152 | HCS-C MINI 1W 3AAA 1 1 7035 | On request | On request | On request | | |
| 2203153 | HCS-C MINI-P 1W C C C 7035 | 2203543 | 2203588 | 2203566 | 2203576 | 2203732 |
| 2203154 | HCS-C MINI-P 1 C 1 1 7035 | | | | 2203576 | |
| 2203155 | HCS-C MINI-P 1W C 1 1 7035 | 2203543 | 2203588 | 2203566 | 2203576 | 2203732 |
| 2203157 | HCS-C MINI-P 1W 2AA C C 7035 | 2203543 | 2203588 | 2203566 | | 2203732 |
| 2203158 | HCS-C MINI-P 1 2x2AA C C 7035 | | | | | |
| 2203124 | HCS-T MICRO C C C C 7035 | | | | 2203577 | |
| 2203125 | HCS-T MICRO 1 C 1 1 7035 | | | | 2203577 | |
| 2203126 | HCS-T MICRO X C 1 1 7035 | | | 2203567 | 2203577 | |
| 2203127 | HCS-T MICRO X 2AA C C 7035 | | | 2203567 | | |
| 2203128 | HCS-T MICRO X 2AA 1 1 7035 | | | 2203567 | | |
| 2203160 | HCS-C MEDIUM C C C C 7035 | | | | 2203578 | |
| 2203161 | HCS-C MEDIUM C C 1 1 7035 | | | | 2203578 | |
| 2203162 | HCS-C MEDIUM 1W C 1 C 7035 | 2203543 | 2203836 | 2203568 | 2203578 | 2203732 |
| 2203163 | HCS-C MEDIUM 1W 3AA 1 1 7035 | 2203543 | 2203589 | 2203568 | | 2203732 |
| 2203130 | HCS-T MINI C C C C 7035 | | | | 2203579 | |
| 2203131 | HCS-T MINI 1W C C C 7035 | 2203543 | 2203590 | 2203569 | 2203579 | 2203732 |
| 2203134 | HCS-T MINI 1W 3AA C C 7035 | 2203543 | 2203590 | 2203569 | | 2203732 |
| 2203165 | HCS-C MAXI C C C C 7035 | | | | 2203580 | |
| 2203166 | HCS-C MAXI 1W C C C 7035 | 2203543 | 2203591 | 2203568 | 2203580 | 2203732 |
| 2203167 | HCS-C MAXI 1W C 1 1 7035 | 2203543 | 2203591 | 2203568 | 2203580 | 2203732 |
| 2203168 | HCS-C MAXI 1W 6AA 1 1 7035 | 2203543 | 2203591 | 2203568 | | 2203732 |
| 2203170 | HCS-C MAXI 1W 2x9V 1 1 7035 | 2203543 | 2203591 | 2203568 | | 2203732 |
| 2203137 | HCS-T MEDIUM C C 1 1 7035 | | | | | |
| 2203138 | HCS-T MEDIUM 1W C 1 1 7035 | 2203543 | 2203592 | 2203570 | 2203581 | 2203733 |
| 2203139 | HCS-T MEDIUM 1W C C 1 7035 | 2203543 | 2203592 | 2203570 | | 2203733 |
| 2203142 | HCS-T MAXI 1W C C C 7035 | 2203547 | 2203593 | | 2203582 | |
| 2203143 | HCS-T MAXI 1W C 1 1 7035 | 2203547 | 2203593 | 2203571 | 2203582 | 2203734 |
| 2203144 | HCS-T MAXI 1W 5AA 1 1 7035 | 2203547 | 2203593 | | | |

¹⁾ For technical data, see page 96

²⁾ For technical data, see page 97

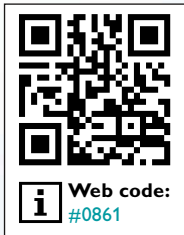
³⁾ For housing without battery compartment


| Plate for display mounting kit | Seal for display | Adhesive layer for acrylic glass | Screwdriver SF-PH 0 |
|--|---|---|---|
|  |  |  |  |
| | | | 1212558 |
| 2203867 | 2203736 | 2203743 | 1212558 |
| 2203867 | | | |
| 2203867 | | | |
| | | | 1212558 |
| 2203868 | 2203737 | 2203144 | 1212558 |
| 2203868 | | 2203742 | |
| 2203864 | 2203738 | 2203745 | 1212558 |
| 2203864 | | | |
| 2203869 | 2203739 | 2203746 | 1212558 |
| 2203869 | | | |
| 2203869 | | | |
| 2203869 | | | |
| 1031980 | 2203740 | 2203747 | 1212558 |
| 1031980 | | | |
| 2203866 | 2203741 | 2203748 | 1212558 |

HC-ALU profile housings for mobile applications

HC-ALU aluminum field housings protect electronics from splash water, as well as thermal and mechanical influences in the field.

The 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.





Mobile handheld devices or electronics modules are often used in harsh environments. Protect your electronics for continuous outdoor use with HC-ALU series housings.

Advantages at a glance



Divided profile for easy module integration



Integration of displays or individual membrane keypads







Wall mount for stationary applications

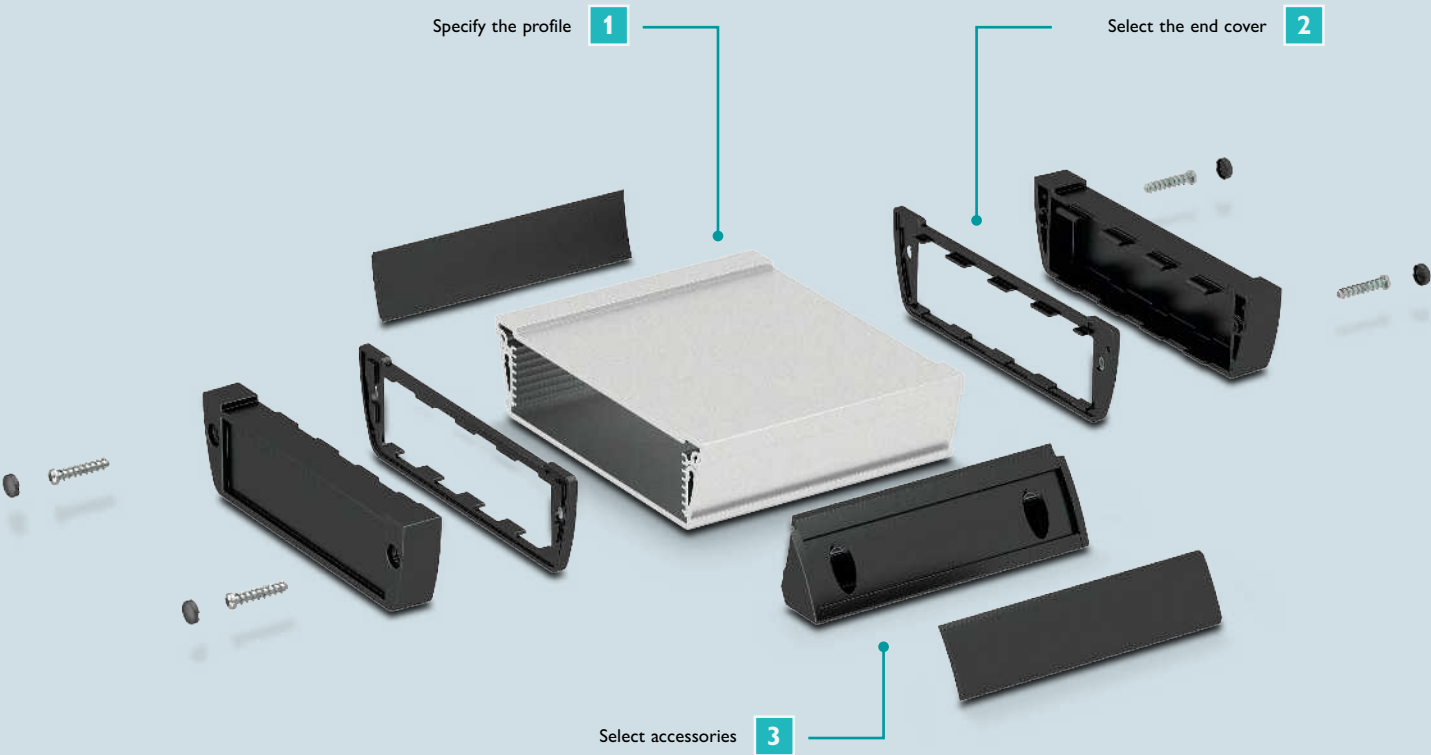
Configuration overview

HC-ALU series

i Web code: #0862

| | Description | Type | Profile width (internal) | | | |
|---|---|----------------------------|---|---|---|---|
| | | | 53.5 mm | 78 mm | 100.5 mm | 161 mm |
| | | |  |  |  |  |
| Aluminum profile, 2-piece | | | | | | |
| | Profile length 100 mm | HC-ALU 6- ... PROFILE 100 | 2200887 | 2200892 | 2200897 | 2200902 |
| 1 | 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 |
| End cover | | | | | | |
| 2 | 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 | |
| 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 |
| 3 | 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 | | | | | | |

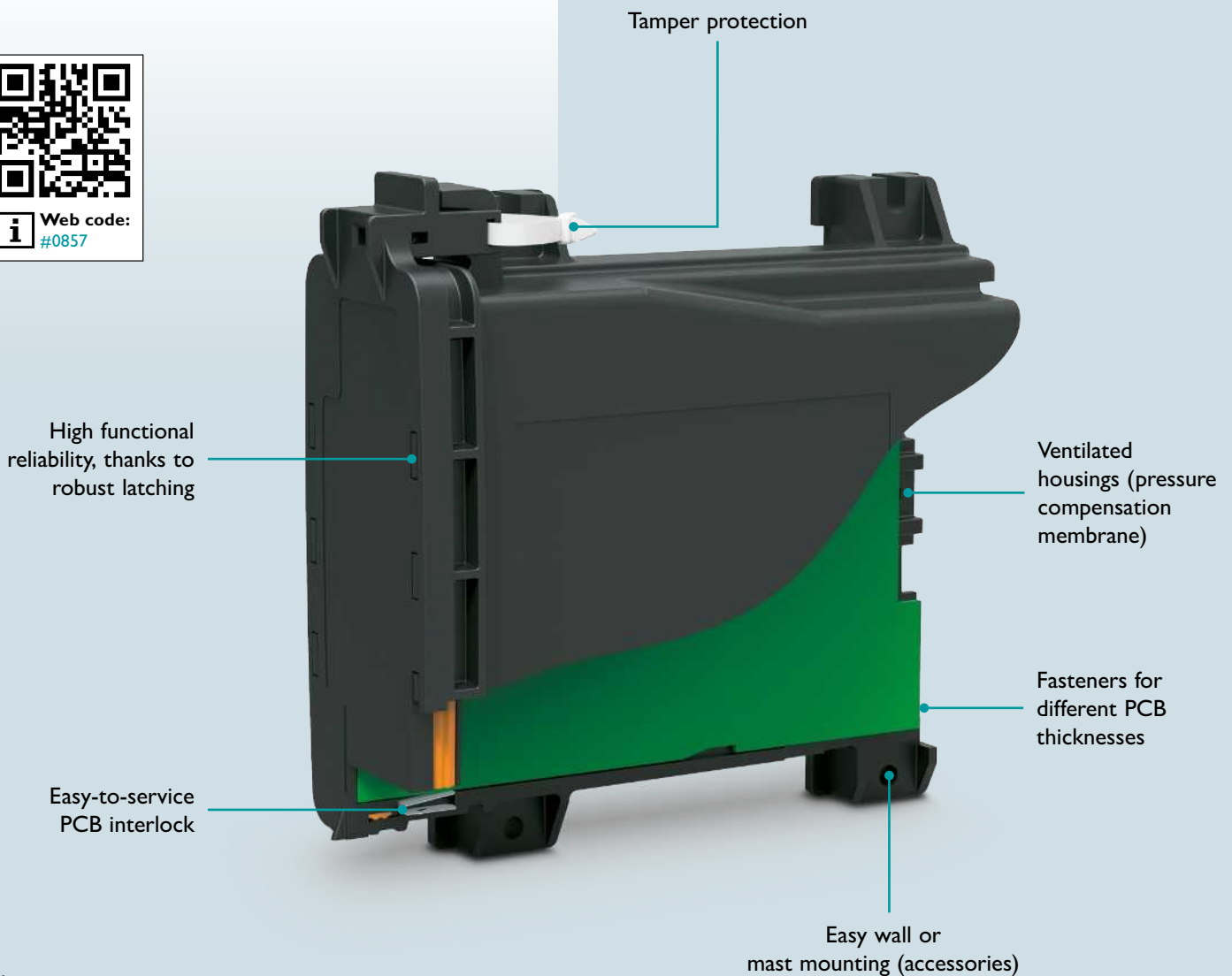
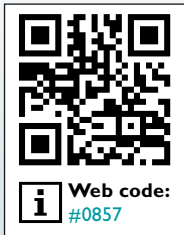
Configuring the HC-ALU series




Test the HC-ALU series:
Sample set: 52002014
Get in touch with your contact person in Sales.

ECS outdoor housings for harsh operating conditions

The robust field housings of the ECS series are the ideal solution for indoor and outdoor applications. Housings with the IP69K degree of protection in accordance with ISO 20653 are suited for operating temperatures from -40°C to $+100^{\circ}\text{C}$ and reliably protect the integrated electronics from mechanical influences as well as dust, water, and UV radiation.





Control devices often need to work in harsh ambient conditions. Sturdy electronics housings of the ECS series offer durable, reliable protection for your electronics.



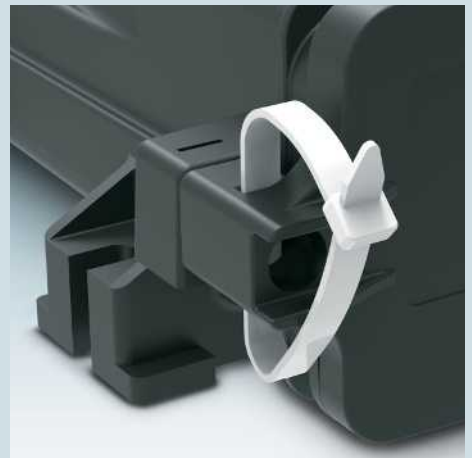
Advantages at a glance



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

Configuration overview

ECS series

i Web code: #0858

| 1 Housing | | | | | 2 Front plate | | | | |
|-----------------|----------------------------|----------------------------|---------------|--------------------|--|--|--------------------------------------|--------------------|--------------------|
| Version | Size (W x H x D) | Ventilation ¹⁾ | Color | Order No. | Type | Connection | Color | Order No. | |
| Snap-in locking | 196 mm x 180 mm x 64 mm | Yes | Black Gray | 2230000 1050206 | ECS-B-122X169-L-UV1-V ECS-B-122X169-L-UV-V GY | Without | Black Gray | 2230004 1050386 | |
| | | No | Black Gray | 2230001 1050212 | ECS-B-122X169-L-UV1-NV ECS-B-122X169-L-UV-NV GY | 1x M12 nut | Black Gray | 2230005 1050385 | |
| Screw locking | 163 mm x 180 mm x 64 mm | Yes | Black Gray | 2230002 1050209 | ECS-B-122X169-S-UV1-V ECS-B-122X169-S-UV-V GY | Without | Black Gray | 2230008 1050382 | |
| | | No | Black Gray | 2230003 1050207 | ECS-B-122X169-S-UV1-NV ECS-B-122X169-S-UV-NV GY | 1x M12 nut | Black Gray | 2230009 | |
| | No | 163 mm x 180 mm x 64 mm | Yes | Black Gray | 2230002 1050209 | ECS-B-122X169-S-UV1-V ECS-B-122X169-S-UV-V GY | 2x M12 nuts | Black Gray | 2230010 1050379 |
| | | | No | Black Gray | 2230003 1050207 | ECS-B-122X169-S-UV1-NV ECS-B-122X169-S-UV-NV GY | Cable gland M20x1.5 (6 ... 12 mm) | Black Gray | 2230007 1050383 |
| | | | | | | Cable gland M20x1.5 (6 ... 12 mm) | Black Gray | 2230011 1050380 | |

¹⁾ Integrated pressure compensation membrane

Accessories

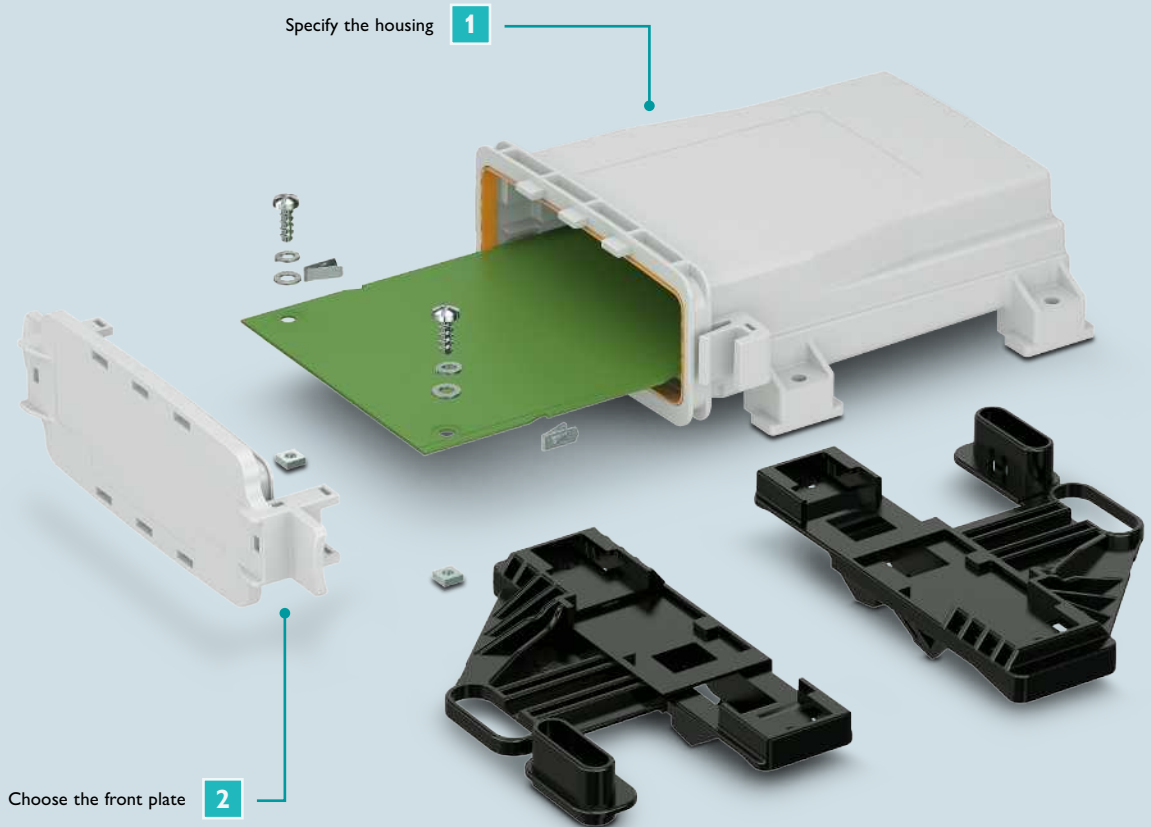
| Description | Order No. | Type |
|---|-----------|---------------|
| PCB safety clip (2 pcs.) | 2230012 | ECS-BL |
| Mounting set for mast mounting (2 pcs.) | 2230013 | ECS-PM |
| Demo PCB | 1004300 | ECS-PCB |
| Screwdriver, Torx® with bore hole TX 20 x 100 | 1200151 | SF-TXH 20X100 |

M12 connection technology

Please use **web code #0205** on our website at phoenixcontact.com for the product list of possible M12 contact inserts.

Configuring the ECS series

| Type |
|--|
| ECS-P-122X169-L-UV1-B ECS-P-122X169-L-UV-B GY |
| ECS-P-122X169-L-UV1-1M12 ECS-P-122X169-L-UV-1M12 GY |
| ECS-P-122X169-L-UV1-2M12 ECS-P-122X169-L-UV-2M12 GY |
| ECS-P-122X169-L-UV1-CG ECS-P-122X169-L-UV-CG GY |
| ECS-P-122X169-S-UV1-B ECS-P-122X169-S-UV-B GY |
| ECS-P-122X169-S-UV1-1M12 ECS-P-122X169-S-UV-1M12 GY |
| ECS-P-122X169-S-UV1-2M12 ECS-P-122X169-S-UV-2M12 GY |
| ECS-P-122X169-S-UV1-CG ECS-P-122X169-S-UV-CG GY |



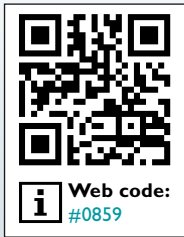
Test the ECS series:

Sample set: 52008541

Get in touch with your contact person in Sales.

DCS display holders for industrial applications

The electronics housings of 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 the Human Machine Interfaces (HMI) for data input and display that are suited for 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

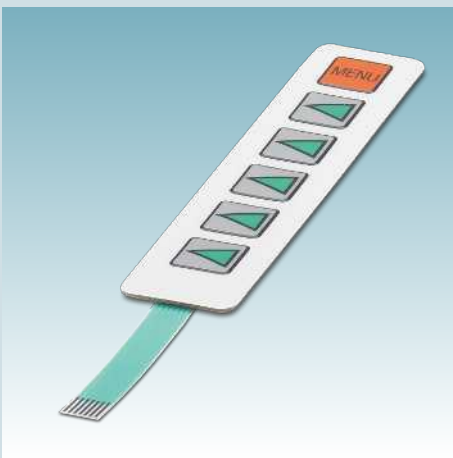


Connection technology for signals, data,
and power according to individualized
specifications

Electronics housings of the DCS series are the perfect base for application-specific display and operator interfaces in industrial and building automation.



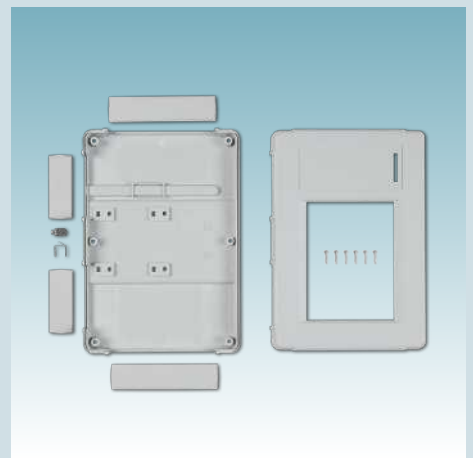
Advantages at a glance



Perfect membrane keypads, available even with custom specifications



Easy integration of displays



Standard versions for different device interfaces

Configuration overview

DCS series

i Web code: #0860

| 2 Housing | | | | | | | | | | | | |
|-----------|--------------|----------------------|-------------------------|-----------------|---------------|---------------------------|-------------|-------------------|---------------------|-------------------------|--------------|---------|
| | | | | Front side | | | Back side | | | Face ends | | |
| | | | | A | B | C | D | E | F | G | | |
| 1 | Display size | Window Width x Depth | Width x Height x Depth | Window position | Surface | Membrane keypad/ position | Wall mount | Ventilation slots | Battery compartment | Version | Order No. | |
| | 5.7" | 118 mm x 88 mm | 224 mm x 157 mm x 40 mm | Center | Level | No | No | No | No | 4 x open | 2203172 | |
| | | | | Center | Level | No | No | No | No | For APP battery housing | 4 x closed | 2203173 |
| | | | | Center | Sunken 1.1 mm | Right & left | Yes | No | No | No | 4 x closed | 2203174 |
| | | | | Left | Sunken 1.1 mm | Right | No | No | No | For APP battery housing | 4 x open | 2203175 |
| | | | | Left | Sunken 1.1 mm | Right | Yes | No | No | No | 4 x closed | 2203176 |
| | 7.0" | 154.4 mm x 93.4 mm | 224 mm x 157 mm x 40 mm | Center | Level | No | No | No | No | 4 x open | 2203183 | |
| | | | | Center | Level | No | No | No | No | For APP battery housing | 4 x closed | 2203184 |
| | 15" | 306 mm x 230 mm | 362 mm x 286 mm x 62 mm | Center | Level | No | No | No | No | No | Not relevant | 2203189 |
| | | | | Center | Level | No | VESA 75/100 | Yes | No | No | Not relevant | 2203190 |
| Center | | | | Level | No | No | No | No | No | Not relevant | 2203191 | |

| Accessories | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|
| | Membrane keypad ²⁾ | IP54 seal kit (IEC/ EN 60529) | Display ¹⁾ | Mounting kit for display in the housing | Seal for display | Acrylic glass pane satinized for display | Angle plate for connection technology | Adaptable battery housing | Wall mount |
| Type |  |  |  |  |  |  |  |  |  |
| DCS 5,7 M C O C 1 7035 | - | | | | | | | - | - |
| DCS 5,7 M C O BP C 7035 | - | | | | | | | 2203751 | 2203752 |
| DCS 5,7 M 1F RL W C 7035 | | 2203584 | 2203549 | 2203829 | 2203749 | 2203595 | - | - | - |
| DCS 5,7 L 1F R BP 1 7035 | 2203572 | | | | | | | 2203751 | 2203752 |
| DCS 5,7 L 1F R W C 7035 | | | | | | | | - | - |
| DCS 7 M C O C 1 7035 | - | 2203584 | 2203551 | 2203830 | 2203749 | 2203596 | - | - | - |
| DCS 7 M C O BP C 7035 | - | | | | | | | 2203751 | 2203752 |
| DCS 15 M C O C C 7035 | - | | | | | | - | | |
| DCS 15 M C O SLV C 7035 | - | 2203586 | 2203553 | 2203831 | 2203749 | 2203598 | 2203750 | - | - |
| DCS 15 M C O S C 7035 | - | | | | | | | | |

¹⁾ For technical data, see page 96

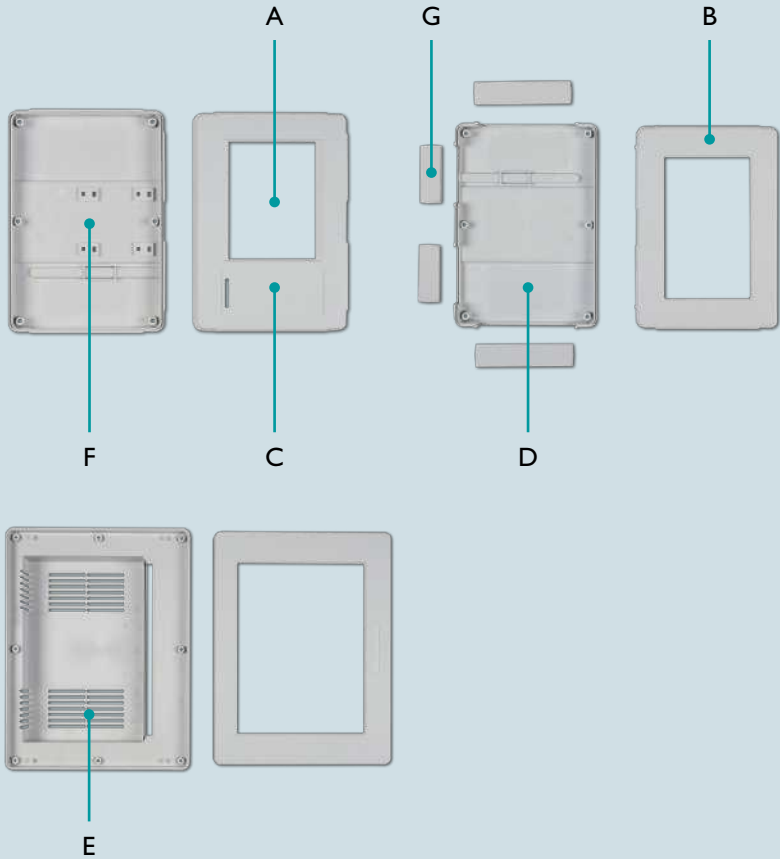
²⁾ For technical data, see page 97

Configuring the DCS series

1 Select the display size



2 Specify the version/type



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.

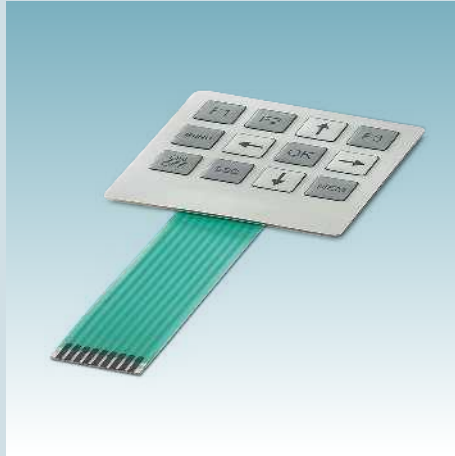
With broader, comprehensive accessories such as coding profiles, bus connectors, and DIN rail adapters you gain a high degree of functionality.



Overview of accessories for electronics housings



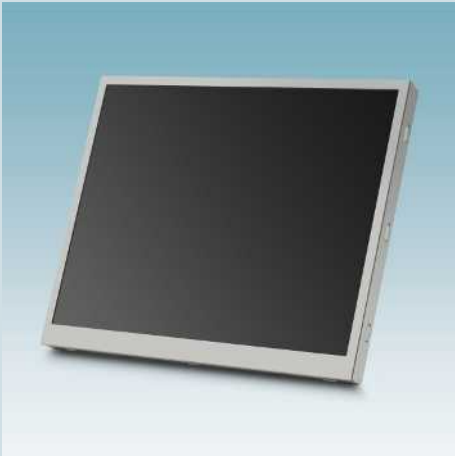
Display holders in different color variants



Membrane keypads



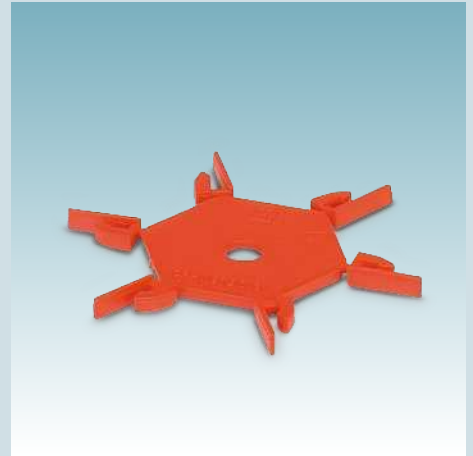
Light guides for status and diagnostic indicators



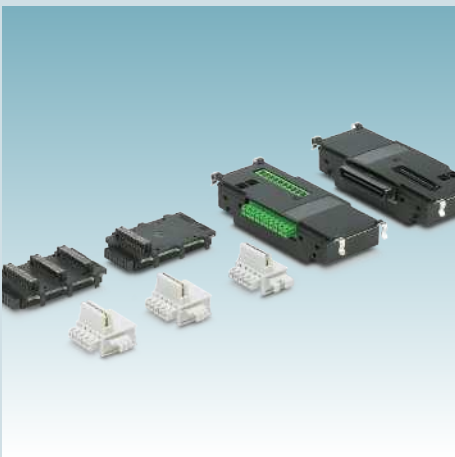
TFT displays



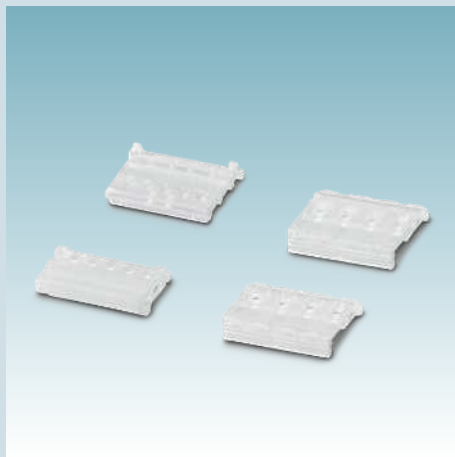
IP54 seal kits for the HCS and DCS housing series



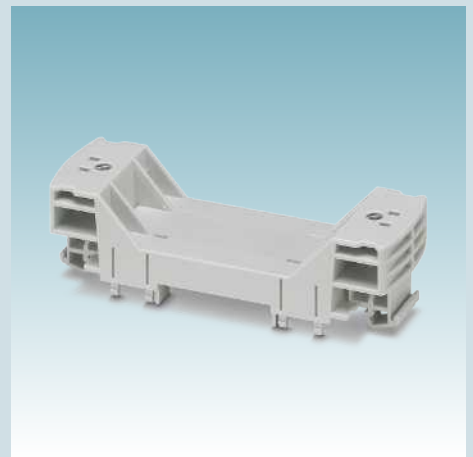
Coding profiles for PCB connectors



Bus connectors for signal and data lines



Connector locking mechanisms for PCB connectors

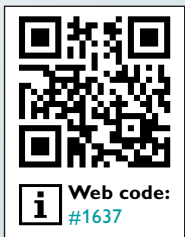
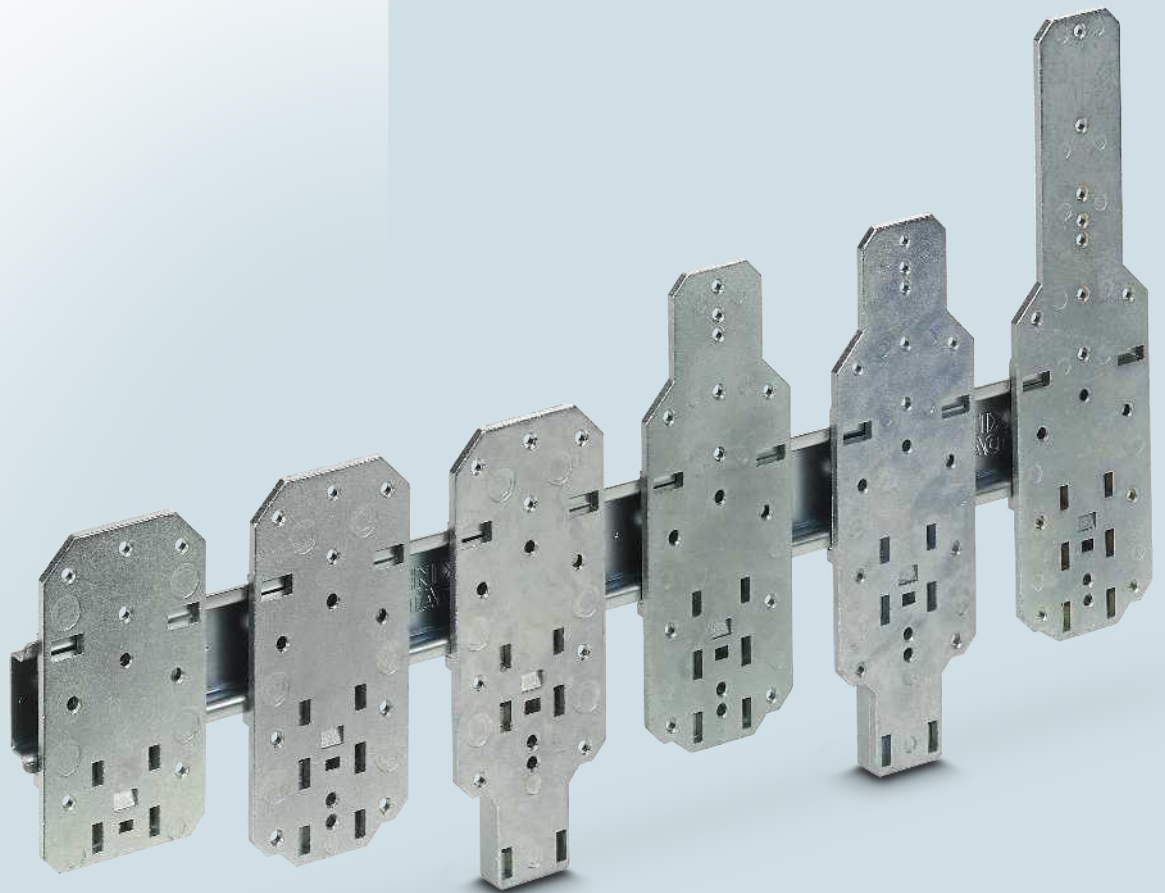


End brackets for electronics housings

UTA DIN rail adapters

The UTA universal DIN rail adapters enable devices such as power supply units or sensor/actuator boxes to be snapped onto standard DIN rails in accordance with EN 60715.

The sturdy metal design with corrosion-resistant surface ensures a long service life and a secure grip even under extreme loads.



DIN rail adapters are the right solution for installing devices securely on a DIN rail without a standard mounting foot, transformers or bulky elements.



UTA DIN rail adapters









| | | | | | | |
|------------------|---|---|---|--|---|---|
| |  |  |  |  |  |  |
| Type | UTA 89 | UTA 107 | UTA 130 | UTA 136 | UTA 159 | UTA 184 |
| 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 |
| Order No. | 2853970 | 2853983 | 2706412 | 2853996 | 2854018 | 2854021 |

Displays and membrane keypads for electronics housings

| Displays | | | | | | | | |
|--------------------------------|---|---|---|---|--|---|---|---|
| |  |  |  |  |  |  |  |  |
| 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 |
| Brightness | 220 cd/m ² | 220 cd/m ² | 220 cd/m ² | 80 cd/m ² | 120 cd/m ² | 200 cd/m ² | 300 cd/m ² | 450 cd/m ² |
| 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 | HCS-T MAXI | DCS 5,7 | DCS 7,0 | DCS 15,0 |



Membrane keypads

| |  |  |  |  |  |  |  |  |
|---------------------------------|---|---|---|---|---|---|---|---|
| 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 | 45 keys, 4 colors | 28 keys, 4 colors | 6 keys, 4 colors | 4 keys, 4 colors |
| Dimensions | 70.4 mm x 69.2 mm | 37.6 mm x 139.6 mm | 72.6 mm x 79.6 mm | 78/55 mm x 173 mm | 63.5 mm x 115.8 mm | 144 mm x 78 mm | 22.6 mm x 103.4 mm | 95 mm x 72 mm |
| Number of socket pins | 9 | 9 | 8 | 14 | 13 | 16 | 7 | 6 |
| Membrane cable pitch | Socket 2.54 mm | Socket 2.54 mm | Socket 2.54 mm | Socket 2.54 mm | Socket 2.54 mm | Socket 2.54 mm | 1.0 mm | 1.0 mm |
| Length of membrane cable | 100.5 mm | 88.5 mm | 62 mm | 59 mm | 124 mm | 77 mm | 50 mm | 47.3 mm |
| 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 |

Light guides for electronics housings

| Light guides | | | | |
|---|-----------|-------------------------|--------------|--------------------------|
| Series | Order No. | Type | Display size | Number of displays |
|  | 2202311 | HS LC-V-D3/ R2xC1-5,08 | ø 3 mm | 2 (2 rows x 1 column) |
| | 2202312 | HS LC-V-D3/ R3xC1-5,08 | ø 3 mm | 3 (3 rows x 1 column) |
|  | 2202313 | HS LC-H-D3/ R1xC1 | ø 3 mm | 1 (1 row x 1 column) |
|  | 2202314 | HS LC-H-5x2/ R1xC1 | 5 x 2 mm | 1 (1 row x 1 column) |
|  | 2202315 | HS LC-H-D3/ R2xC1-5,08 | ø 3 mm | 2 (2 rows x 1 column) |
|  | 2202316 | HS LC-H-D2/ R2xC1-2,54 | ø 2 mm | 2 (2 rows x 1 column) |
| | 2202317 | HS LC-H-D2/ R2xC2-2,54 | ø 2 mm | 4 (2 rows x 2 columns) |
| | 2202318 | HS LC-H-D2/ R2xC5-2,54 | ø 2 mm | 10 (2 rows x 5 columns) |
| | 2202319 | HS LC-H-D2/ R2xC10-2,54 | ø 2 mm | 20 (2 rows x 10 columns) |
|  | 2202320 | HS LC-H-D2/ R4xC2-2,54 | ø 2 mm | 8 (4 rows x 2 columns) |
| | 2202321 | HS LC-H-D2/ R4xC5-2,54 | ø 2 mm | 20 (4 rows x 5 columns) |
| | 2202322 | HS LC-H-D2/ R4xC9-2,54 | ø 2 mm | 36 (4 rows x 9 columns) |
| | 2202323 | HS LC-H-D2/ R4xC10-2,54 | ø 2 mm | 40 (4 rows x 10 columns) |

| Pitch value | Recommended housing use |
|-------------|---|
| 5.08 mm | BC 35,6 ... BC 161,6 |
| 5.08 mm | BC 35,6 ... BC 161,6 |
| | EH, ME, ME-MAX, ME-IO, ME-PLC, BC 17,8 |
| | EH, ME, ME-MAX, ME-IO, ME-PLC, BC 17,8 |
| 2.54 mm | EH, ME, ME-MAX, ME-IO, ME-PLC, BC 17,8 |
| 2.54 mm | EH, ME, ME-MAX, ME-IO, ME-PLC, BC 17,8 |
| 2.54 mm | EH, ME, ME-MAX, ME-IO, ME-PLC, BC 17,8 |
| 2.54 mm | EH, ME, ME-MAX, ME-IO, ME-PLC, BC 17,8 |
| 2.54 mm | EH, ME, ME-MAX, ME-IO, ME-PLC, BC 17,8 |
| 2.54 mm | EH, ME, ME-MAX, ME-IO, ME-PLC |
| 2.54 mm | EH, ME, ME-MAX, ME-IO, ME-PLC |
| 2.54 mm | EH, ME, ME-MAX, ME-IO, ME-PLC |
| 2.54 mm | EH, ME, ME-MAX, ME-IO, ME-PLC |

Test the HS-LC series:
Sample set: 52006690



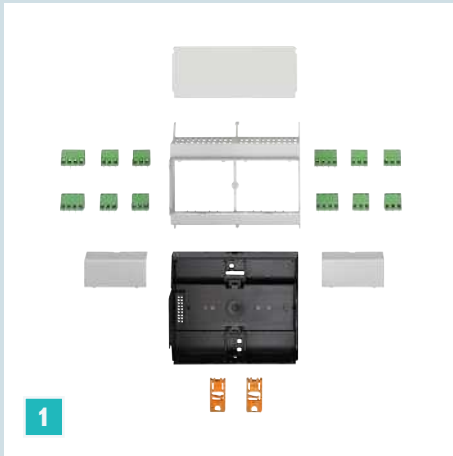
Ordering data for development kits

i Web code: #0686

| | Description | Type | Order No. |
|-----------------------------------|---|---------------------------------|-----------|
| BC 107,6 DEV-KIT | | | |
| 1 |  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 |
| ME MAX 22,5 2-2 DEV-KIT | | | |
| 2 |  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 |
| ME-PLC 40 DEV-KIT | | | |
| 3 |  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 |
| EH 45 FLAT DEV-KIT | | | |
| 4 |  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 |
| ME-IO 18,8 DEV-KIT | | | |
| 5 |  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 |
| UM-BASIC 108 100MM DEV-KIT | | | |
| 6 |  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 production

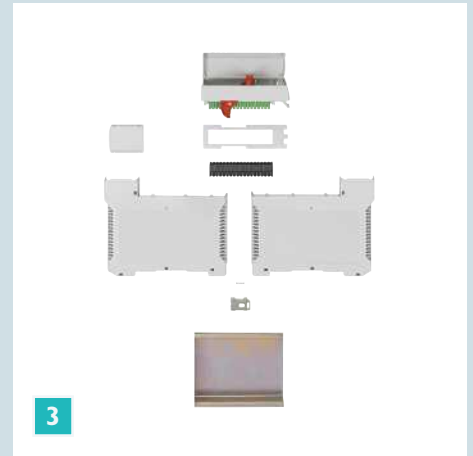
- PCB with hole pattern
- Development kit contains housing and connection technology for an operational module
- Specific bus connectors available



BC 107,6 DEV-KIT



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



ME-PLC 40 DEV-KIT



EH 45 FLAT DEV-KIT



ME-IO 18,8 DEV-KIT

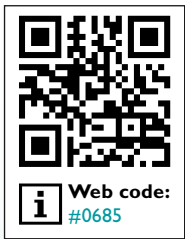


UM-BASIC 108 100MM DEV-KIT

Service 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 a completely new development.

Color versions



Laser marking with barcode and serial number

Pad printing for logos and markings

Customer-specific machined holes

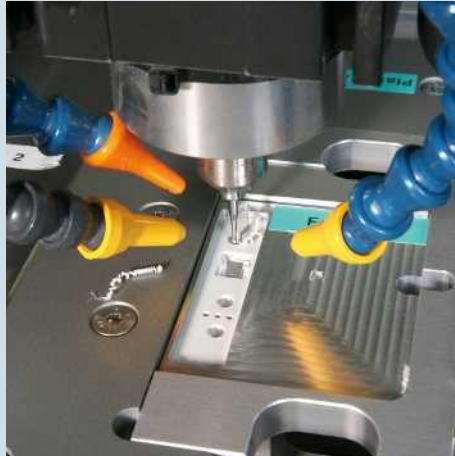
Screen printing for multicolored surface printing

Your options for customization



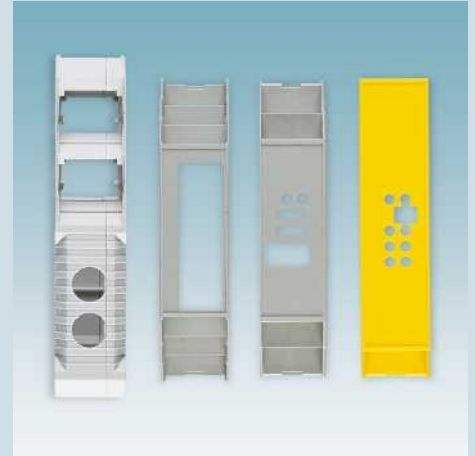
Many color versions

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 ready-to-install components.



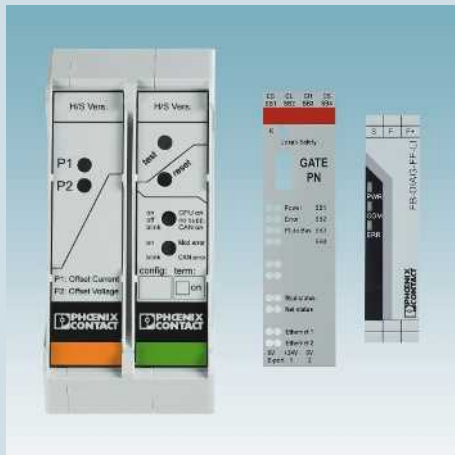
Tool modification

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

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 barcodes, data matrix codes, plain text for numbering and QR codes.

Customer-specific solutions

You have specific requirements and need a new development tailored to your requests? We support you with our expertise from 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.

Our services

- ✓ 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.

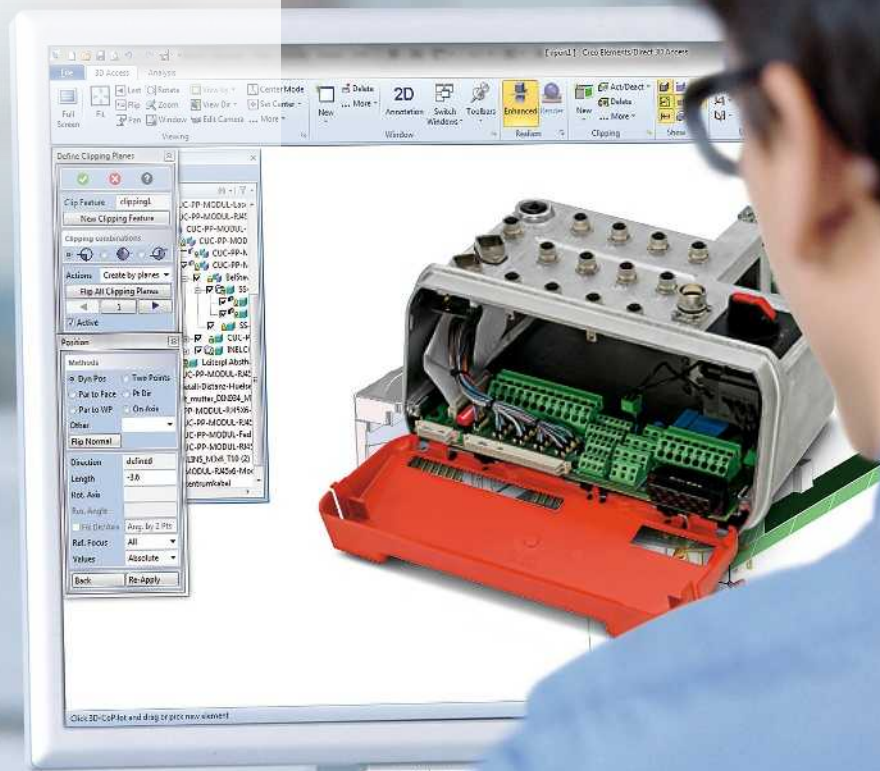


Logistics

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.



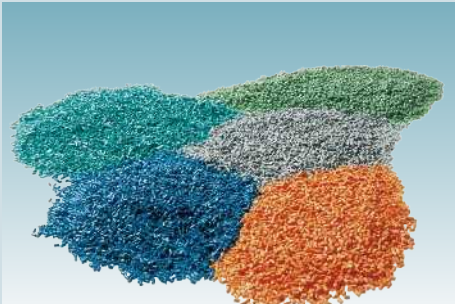
Contact technology

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 15,000 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

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