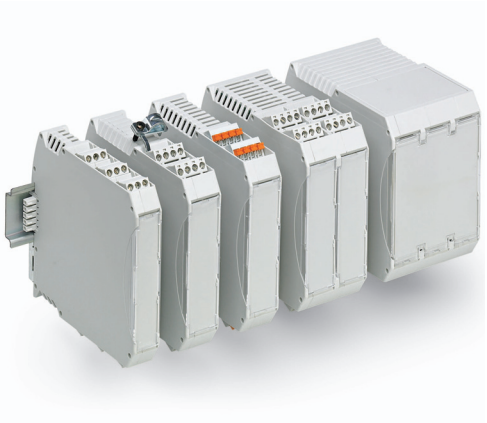
ME MAX

ME MAX series electronics housings



Data sheet
108436_en_01

1 Description

ME MAX series electronics housings are characterized by their modular, half-shell basic design. Electronic components and PCB connection technology can be assembled and soldered in one step. After inserting the PCB into the narrow housing half-shell, the other housing half-shell is snapped on. The front area is sealed by a plate that can be mechanically processed or printed according to customer specifications.

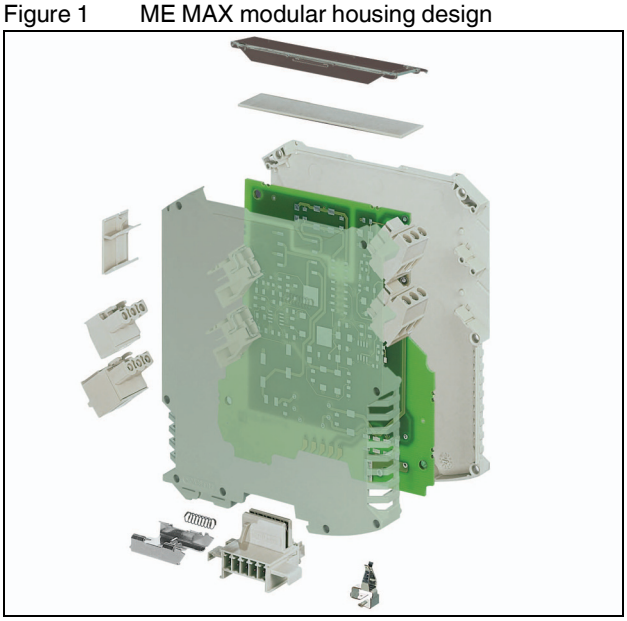
The housings are available in three different depths: 51.5 mm, 92 mm, and 114.5 mm. Various widths from 6.2 mm to 90 mm are available. The most popular dimensions are 17.5 mm and 22.5 mm.

The electrical connections are available with screw connection or Push-in connection. Connections are available as a PCB terminal block as well as a header with connector. The PCB terminal block or header is available with various pitches.

The housings are snapped onto an NS 35 DIN rail in accordance with EN 60715.

When combined with the DIN rail connector, you can change modules without interrupting the supply voltage.

Figure 1 ME MAX modular housing design



WARNING: Only electrically qualified personnel may install and operate the housing. The qualified personnel must be able to recognize and prevent danger.

A configurator for selecting the products is available at phoenixcontact.com, web code: #0512. You can use it to configure your housing. You will then receive 3D data, order lists, and PCB layouts.

Make sure you always use the latest documentation.
It can be downloaded at phoenixcontact.net/products.

This document is valid for the products listed in the “Ordering data” section on page 5 onwards.

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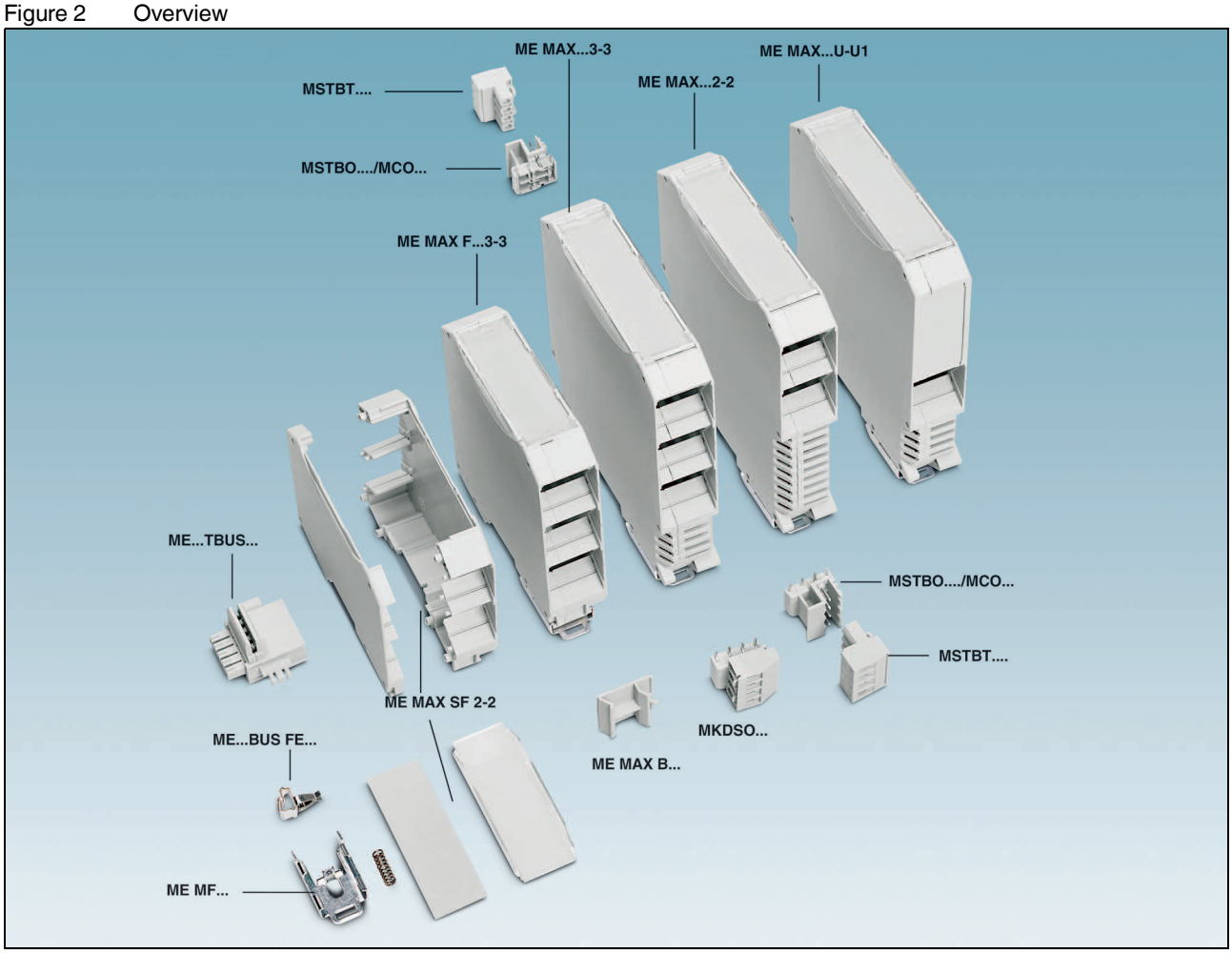
2 Overview of ME MAX products

Figure 2 Overview



The complete product list for ME MAX modular component housings can be found at phoenixcontact.com, web code: #0306.

3 Ordering data

A configurator for selecting the products is available at phoenixcontact.com, web code: #0512. You can use it to configure your housing. You will then receive 3D data, order lists, and PCB layouts.

In addition to the configurator, a visual product overview to facilitate product selection is also available at phoenixcontact.com, web code: #0306. The overview shows you the single parts that can be ordered for your housing.

Order key

The designation of ME MAX series electronics housings consists of the following components:

ME MAX	**17,5**	**SF**	**G**	**2-2**	**KMGY**
	Width	Design	Vent	Connection levels	Color similar to RAL…
	6.2 mm 12.5 mm 17.5 mm 22.5 mm 35 mm 45 mm 67.5 mm 90 mm	**No abbreviation** = standard (depth: 114.5 mm) **F** = flat (depth: 92 mm) **SF** = super flat (depth: 70.4 mm) **LC** = large cover **SC** = screw connection on 4 levels **SP** = spring connection on 4 levels	**G** = without vents **No abbreviation** = with vents	**2-2** = 2 levels on both sides **3-3** = 3 levels on both sides **4-4** = 4 levels on both sides **U-U1** = one side with universal plate, other side with one connection level and universal plate **3-U1** = one side with three connection levels, other side with one connection level and universal plate	**BK** = RAL 9005 **BU** = RAL 5015 **BUGY** = RAL 7031 **GN** = RAL 6021 **GNTQ** = RAL 5018 **KMGY** = RAL 7035 **PGBU** = RAL 5014 **RD** = RAL 3001

4 Technical data

Housing design			
Insulation material	PA (polyamide)		
	ME MAX 6,2: PBT (polybutylene terephthalate)		
Flammability rating UL 94	V0		
Degree of protection in accordance with DIN EN 60259	IP20		
Power dissipation			
Maximum dissipated power in direct apposition	5.2 W ... 10.4 W		
Temperature range			
Ambient temperature			
Storage/transport	-40°C ... +55°C (80% relative humidity)		
Mounting	-5°C ... +100°C		
Operation	-40°C ... +100°C (depending on power dissipation)		
Dimensions			
Width	6.2 mm 12.5 mm 17.5 mm	22.5 mm 35 mm 45 mm	67.5 mm 90 mm
Depth	70.4 mm (super flat) 92 mm (flat) 114.5 mm (standard)		
	ME MAX 6,2: 102.5 mm		
Height	85 mm 99 mm		
	ME MAX 6,2: 93.1 mm		
PCBs			
PCB surface, maximum usable	3400 mm^2 … 8500 mm^2		
PCB connection	18 positions ... 120 positions, with 3.5 mm pitch		
	8 positions ... 96 positions, with 5.0 mm pitch		
	12 positions ... 72 positions, with 7.25 mm and 7.5 mm pitch		
Bus connectors			
5-pos. DIN rail connector	ME 6,2 TBUS, ME 17,5 TBUS, ME 22,5 TBUS		
Current carrying capacity	5 x 8 A, 100 V DC, depending on derating		
2-pos. PBR power connector with PCO connection technology			
Current carrying capacity	2 x 42 A, 60 V DC		

For the technical data for the connection technology, please refer to “Connection technology – Technical data” on page 27.

4.1 Calculating the power dissipation

Power dissipation values should be used as a guide only. They are largely dependent on the following factors:

- The PCB arrangement in the housing
- The position of components (as a source of heat)
- The number of assembled PCBs in the housing
- The mounting position of the housing

The maximum permissible power dissipation decreases as the ambient temperature increases. The listed reduction factor (K_l) must therefore be taken into account when calculating the permissible power dissipation.

	+20°C	+30°C	+40°C	+50°C	+60°C
K_l	1	0.91	0.81	0.7	0.57

Formula for calculating the power dissipation depending on the ambient temperature

$P_v t_u = P_t \times K_l$

P_v = power dissipation

t_u = ambient temperature

t = 20°C

K_l = reduction factor

Example: power dissipation at +50°C

P 50°C = P 20°C x K_l

P 50°C = 10.8 W x 0.7 = 7.56 W

Power dissipation P 20°C

Product	Arranged without spacing	Arranged with at least 20 mm spacing
ME MAX 12,5 3-3 TBUS	4.4 W	8.4 W
ME MAX 12,5 G 3-3 TBUS	4.3 W	7.1 W
ME MAX 17,5 U-U1	5.2 W	10.8 W
ME MAX 17,5 G U-U1	4.9 W	8.9 W
ME MAX 17,5 2-2	5.2 W	10.8 W
ME MAX 17,5 G 2-2	4.9 W	8.9 W
ME MAX 17,5 3-3	5.2 W	10.8 W
ME MAX 17,5 G 3-3	4.9 W	8.9 W
ME MAX 22,5 U-U1	6.4 W	12.1 W
ME MAX 22,5 G U-U1	5.7 W	10.1 W
ME MAX 22,5 2-2	6.1 W	12.1 W
ME MAX 22,5 G 2-2	5.7 W	10.1 W
ME MAX 22,5 3-3	6.1 W	12.1 W
ME MAX 22,5 G 3-3	5.7 W	10.1 W
ME MAX 22,5 F G 3-3	5.5 W	9.6 W
ME MAX 22,5 SF G 2-2	5.5 W	9.6 W
ME MAX 35 U-U1	7.9 W	16.3 W
ME MAX 35 G U-U1	7.5 W	13.8 W
ME MAX 35 2-2	7.9 W	16.3 W
ME MAX 35 G 2-2	7.5 W	13.8 W
ME MAX 35 3-3	7.9 W	16.3 W
ME MAX 35 G 3-3	7.5 W	13.8 W
ME MAX 45 U-U1	8.2 W	16.5 W
ME MAX 45 G U-U1	7.6 W	14.1 W
ME MAX 45 2-2	8.2 W	16.5 W
ME MAX 45 G 2-2	7.6 W	14.1 W
ME MAX 45 3-3	8.2 W	16.5 W
ME MAX 45 G 3-3	7.6 W	14.1 W
ME MAX 67,5 U-U1	9.1 W	17.5 W
ME MAX 67,5 G U-U1	8.5 W	15 W
ME MAX 67,5 2-2	9.1 W	17.5 W
ME MAX 67,5 G 2-2	8.5 W	15 W
ME MAX 67,5 3-3	8.5 W	17.5 W
ME MAX 67,5 G 3-3	9.1 W	15 W
ME MAX 90 U-U1	10.4 W	18.9 W
ME MAX 90 G U-U1	9.7 W	16.4 W
ME MAX 90 2-2	10.4 W	18.9 W
ME MAX 90 G 2-2	9.7 W	16.4 W
ME MAX 90 3-3	10.4 W	18.9 W
ME MAX 90 G 3-3	9.7 W	16.4 W

* With horizontal mounting position

5 Safety notes

Only electrically qualified personnel may install and operate the housing. The qualified personnel must be able to recognize and prevent danger.

Do not connect or disconnect the connectors under load.

Do not connect or disconnect the DIN rail connector under load.

Only put products into use that are free of faults. Check the products regularly for damage. Immediately take defective products out of service. Replace damaged products. Repairs are not possible.

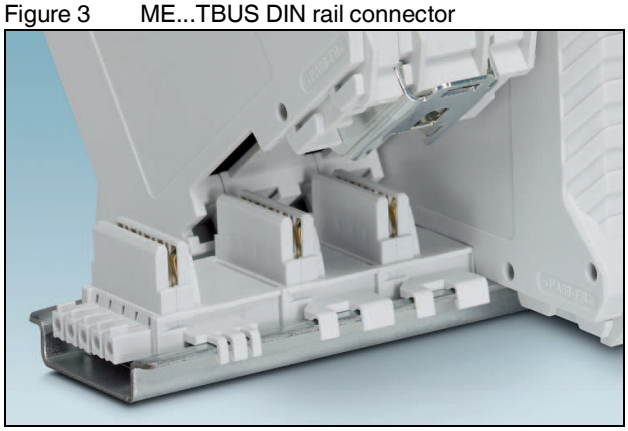
6 Bus connectors

Bus connectors are passive plug-in components that connect several housing modules fitted with electronics.

The main priority is quick and reliable contacting of the modules. This enables communication to be established between the modules.

6.1 DIN rail connectors

Figure 3 ME...TBUS DIN rail connector



The ME...TBUS DIN rail connector is integrated into the DIN rail. The bus connector has 5 positions for energy supply and data transmission. It connects several electronics modules, which are mounted on the DIN rail. When you remove a device from the topology, the contact chain (in the case of parallel contacts) is not interrupted.

DIN rail connectors are available with five parallel contacts or four parallel contacts and one serial contact.

Several DIN rail connectors are required for housings wider than 35 mm. These can be freely combined.

The DIN rail connector can be snapped onto an NS 35/7,5 or NS 35/15 DIN rail.

It has five gold-plated contacts for transmitting up to 8 A and 100 V per position.

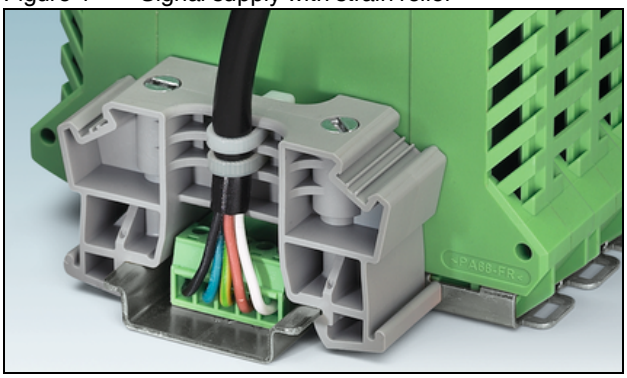
When combined with the DIN rail connector, you can change modules without interrupting the supply voltage.

Do not connect or disconnect the DIN rail connector under load.

6.2 Supplying signals to the DIN rail connector

The E/ME TBUS NS35 GY end bracket (2713780) is available for supplying signals to the DIN rail connector.

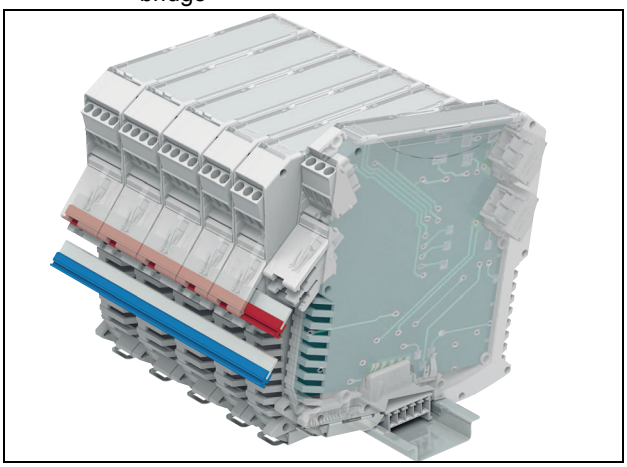
Figure 4 Signal supply with strain relief



The signals are supplied via MINI COMBICON connectors (MC 1,5…AU or IMC 1,5…AU). Strain relief can be integrated in the end bracket.

6.3 Cross connector for the power supply

Figure 5 PCO… power connector with PBR plug-in bridge



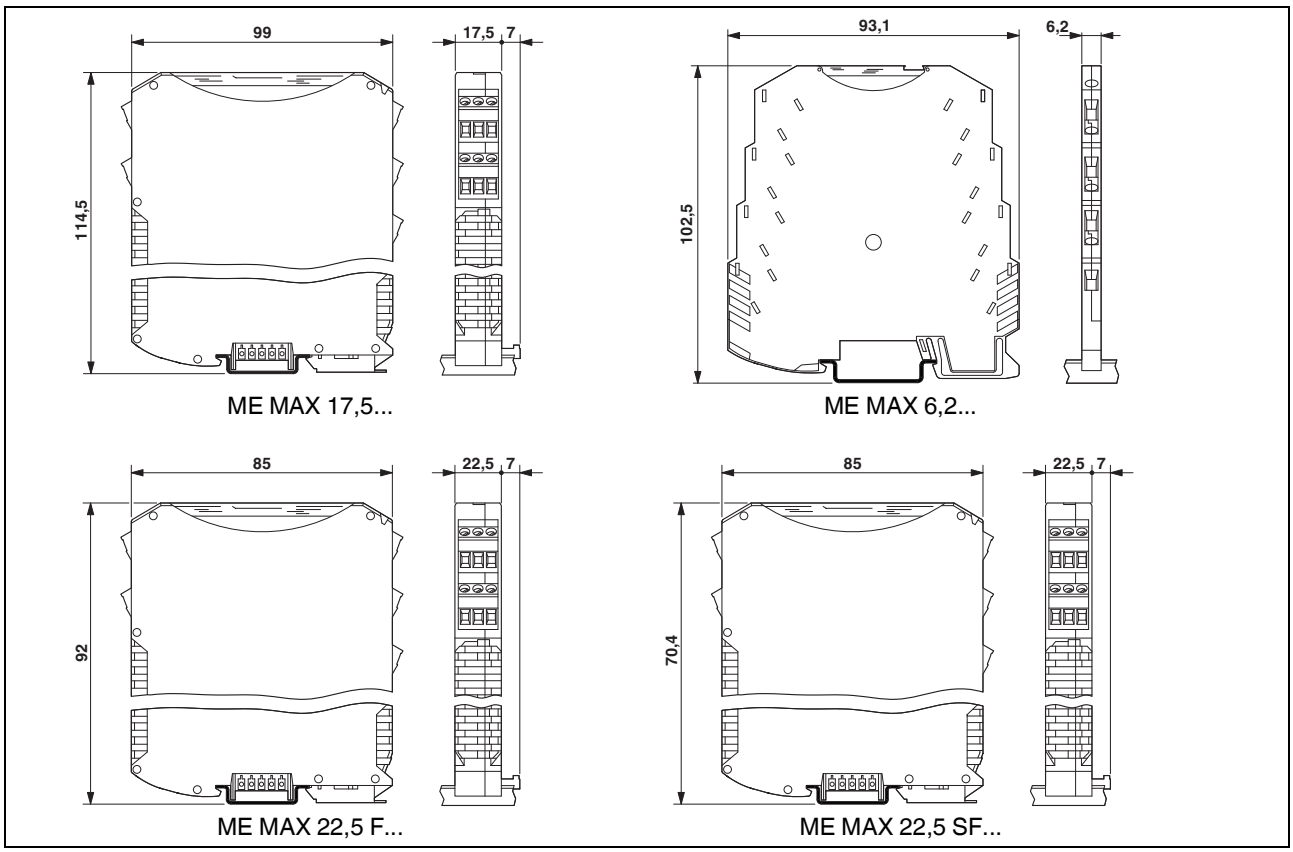
If increased power is required, you can use PCO… connectors. Power connectors are available for housings with 17.5 mm and 22.5 mm pitch. Currents up to 42 A can be supplied in conjunction with the PBR… plug-in bridge.

Do not connect or disconnect the power connector under load.

7 Housing dimensions

7.1 Outer dimensions

Figure 6 Example illustrations

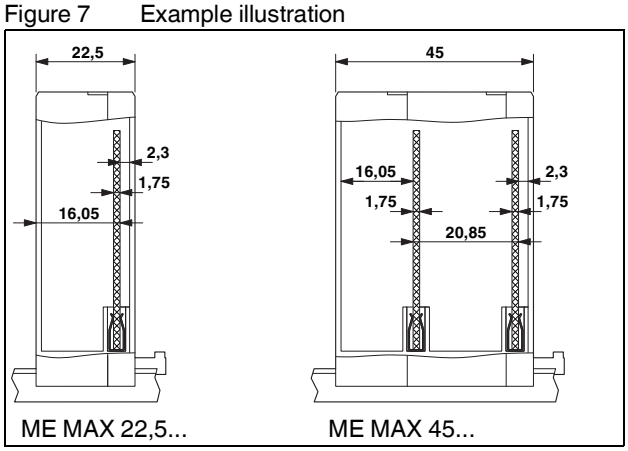


The dimensions are available in the download area for the relevant product.

Width	Depth	Height
6.2 mm 12.5 mm 17.5 mm 22.5 mm 35 mm 45 mm 67.5 mm 90 mm	70.4 mm 92 mm 114.5 mm ME MAX 6,2: 102.5 mm	85 mm 99 mm ME MAX 6,2: 93.1 mm

7.2 Inner dimensions

Figure 7 Example illustration



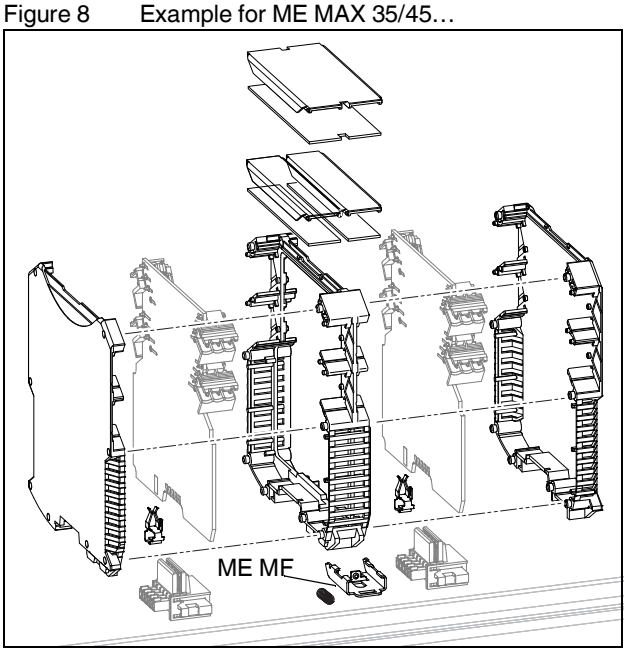
The dimensions are available in the download area for the relevant product.

7.3 Increasing the housing width

You can increase housing widths with 17.5 mm or 22.5 mm pitch as required by aligning intermediate elements.

When intermediate elements are used, the ME MF 17,5 base latch is required to ensure secure latching on the DIN rail.

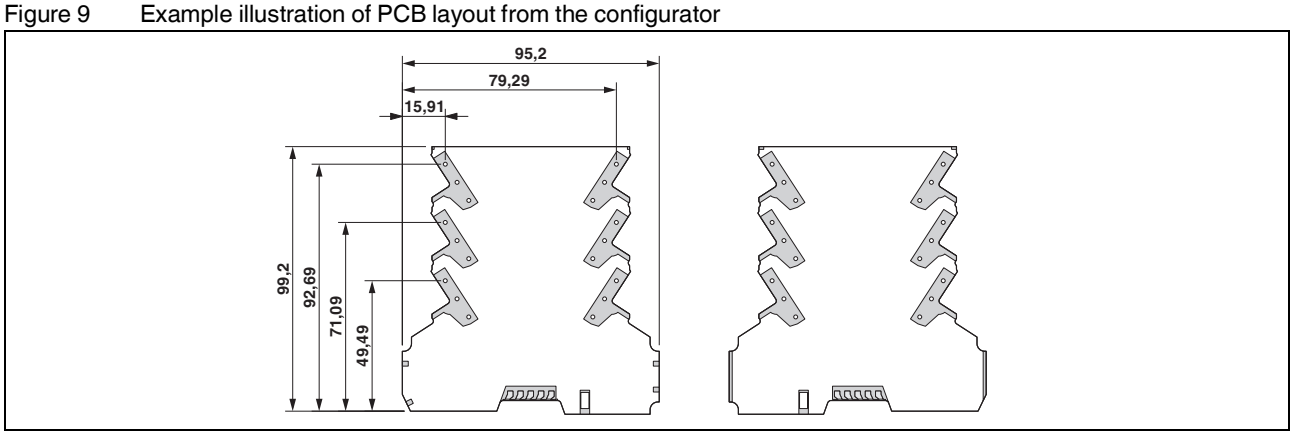
Figure 8 Example for ME MAX 35/45…



8 PCB dimensions

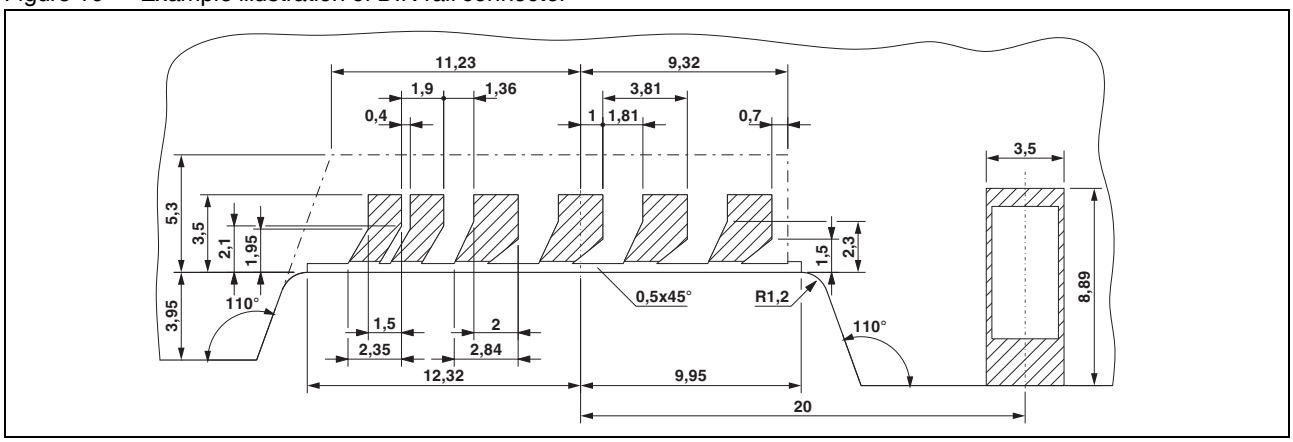
You can configure your housing in the configurator at phoenixcontact.com, web code: #0512. You will receive 3D data, order lists, and PCB layouts.

Figure 9 Example illustration of PCB layout from the configurator



DIN rail connector

Figure 10 Example illustration of DIN rail connector



9 Selecting the connection technology

9.1 Number of positions

9.1.1 Number of positions: ME MAX 6,2… / ME MAX … 3-3 / ME MAX … 2-2

Housing	... 6,2	Max. number of positions	… 3-3	Max. number of positions			… 2-2	Max. number of positions		
				Pitch [mm]				Pitch [mm]		
	Order No.			3.5	5	7.25/ 7.5	Order No.	3.5	5	7.25/ 7.5
Design: standard, depth: 114.5 mm										
ME MAX 6,2 SC... ME MAX 6,2 SP…	2869634[1] 2869647[2]	8	–	–	–	–	–	–	–	–
ME MAX 12,5... ME MAX 12,5 G…	–	–	2279020 2279017	18	12		–	–	–	–
ME MAX 17,5... ME MAX 17,5 G…	–	–	2713612 2713531	27	18	12	2713599 2713609	16	12	8
ME MAX 35... ME MAX 35 G…	–	–	2713939 2713942	30	24	18	2713625 2713638	20	16	12
ME MAX 35... ME MAX 35 G…	–	–	2713696 2713544	54	36	24	2713670 2713683	32	24	16
ME MAX 45... ME MAX 45 G…	–	–	2713913 2713926	60	48	36	2713706 2713719	40	32	24
ME MAX 67,5... ME MAX 67,5 G…	–	–	2200526 2200527	90	72	54	2200524 2200525	60	48	36
ME MAX 90... ME MAX 90 G…	–	–	2200531 2200532	120	96	72	2200529 2200530	80	64	48
Design: flat, depth: 92 mm										
ME MAX 22,5 F G…	–	–	2869388	30	24	18	–	–	–	–
ME MAX 45 F G…	–	–	2869391	60	48	36	–	–	–	–
Design: super flat, depth: 70.4 mm										
ME MAX 17,5 SF G…	–	–	–	–	–	–	2901369	16	12	8
ME MAX 22,5 SF G…	–	–	–	–	–	–	2869362	20	16	12
ME MAX 45 SF G…	–	–	–	–	–	–	2869375	40	32	24

[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

9.1.2 Number of positions: ME MAX … 3-U1 / ME MAX … U-U1

Housing	… 3-U1	Max. number of positions			… U-U1	Max. number of positions		
		Pitch [mm]				Pitch [mm]		
	Order No.	3.5	5	7.25/7.5	Order No.	3.5	5	7.25/7.5
Design: standard, depth: 114.5 mm								
ME MAX 6,2 SC... ME MAX 6,2 SP…	–	–	–	–	–	–	–	–
ME MAX 12,5... ME MAX 12,5 G…	–	–	–	–	–	–	–	–
ME MAX 17,5... ME MAX 17,5 G…	2201536 2201537	13	12	8	2713641 2713515	4	3	2
ME MAX 35... ME MAX 35 G…	2201538 2201539	20	16	12	2713476 2713489	5	4	3
ME MAX 35... ME MAX 35 G…	–	–	–	–	2713667 2713528	8	6	4
ME MAX 45... ME MAX 45 G…	2201682 2201683	40	32	24	2713492 2713502	10	8	6
ME MAX 67,5... ME MAX 67,5 G…	–	–	–	–	2200547 2200528	15	12	9
ME MAX 90... ME MAX 90 G…	–	–	–	–	2200546 2200533	20	16	12
Design: flat, depth: 92 mm								
ME MAX 22,5 F G…	–	–	–	–	–	–	–	–
ME MAX 45 F G…	–	–	–	–	–	–	–	–
Design: super flat, depth: 70.4 mm								
ME MAX 17,5 SF G…	–	–	–	–	–	–	–	–
ME MAX 22,5 SF G…	–	–	–	–	–	–	–	–
ME MAX 45 SF G…	–	–	–	–	–	–	–	–

9.2 Suitable headers and connectors

9.2.1 Headers and connectors: ME MAX … 3-3: 3.5 mm and 7.25 mm pitch

Housing	… 3-3	Headers		Connectors			Headers		Connec-tors
		3.5 mm pitch					7.25 mm pitch		
		Wave soldering		Screw	Push-in		Reflow soldering (THR)		Screw
		MCO 1,5/…G1…-3,5 page 31		MC page 36	FMC page 38	FK-MCP page 37	GMSTBO 2,5HV/ …G…THR page 35		GMSTBT 2,5 HV page 41
	Order No.	Left	Right				Left	Right	
Design: standard, depth: 114.5 mm									
ME MAX 6,2 SC... ME MAX 6,2 SP…	–	–	–	–	–	–	–	–	–
ME MAX 12,5... ME MAX 12,5 G…	2279020 2279017	2278319	2278322	1769061	–	–	–	–	–
ME MAX 17,5... ME MAX 17,5 G…	2713612 2713531	2278364	2278377	1769074	1773578	1773594	2199867	2199760	2199757
ME MAX 35... ME MAX 35 G…	2713939 2713942	2278380	2278351	1769087	1773581	1773604	2199663	2199566	2199553
ME MAX 35... ME MAX 35 G…	2713696 2713544	2278364	2278377	1769074	1773578	1773594	2199867	2199760	2199757
ME MAX 45... ME MAX 45 G…	2713913 2713926	2278380	2278351	1769087	1773581	1773604	2199663	2199566	2199553
ME MAX 67,5... ME MAX 67,5 G…	2200526 2200527	2278380	2278351	1769087	1773581	1773604	2199663	2199566	2199553
ME MAX 90... ME MAX 90 G…	2200531 2200532	2278380	2278351	1769087	1773581	1773604	2199663	2199566	2199553
Design: flat, depth: 92 mm									
ME MAX 22,5 F G…	2869388	2278380	2278351	1769087	1773581	1773604	2199663	2199566	2199553
ME MAX 45 F G…	2869391	2278380	2278351	1769087	1773581	1773604	2199663	2199566	2199553

9.2.2 Headers and connectors: ME MAX … 3-3: 5 mm pitch

Housing	… 3-3	Headers						Connectors	
		5 mm pitch							
		Wave soldering		Wave soldering		Reflow soldering (THR)		Push-in	Screw
		MSTBO 2,5/…G1 page 32		MSTBO 2,5/…G1P page 33		MSTBO 2,5/ …G1…THR… page 34		PSPT 2,5/… page 40	MSTBT 2,5 HC/ page 39
	Order No.	Left	Right	Left	Right	Left	Right		
Design: standard, depth: 114.5 mm									
ME MAX 6,2 SC... ME MAX 6,2 SP…	–	–	–	–	–	–	–	–	–
ME MAX 12,5... ME MAX 12,5 G…	2279020 2279017	2854788	2854791	2200330	2200331	2200251	2200252	2202346	2200334
ME MAX 17,5... ME MAX 17,5 G…	2713612 2713531	2853750	2853763	2200328	2200329	2915216	2915229	2202345	2200333
ME MAX 35... ME MAX 35 G…	2713939 2713942	2907774	2907787	2200325	2200326	2697194	2697204	2202344	2200332
ME MAX 35... ME MAX 35 G…	2713696 2713544	2853750	2853763	2200328	2200329	2915216	2915229	2202345	2200333
ME MAX 45... ME MAX 45 G…	2713913 2713926	2907774	2907787	2200325	2200326	2697194	2697204	2202344	2200332
ME MAX 67,5... ME MAX 67,5 G…	2200526 2200527	2907774	2907787	2200325	2200326	2697194	2697204	2202344	2200332
ME MAX 90... ME MAX 90 G…	2200531 2200532	2907774	2907787	2200325	2200326	2697194	2697204	2202344	2200332
Design: flat, depth: 92 mm									
ME MAX 22,5 F G…	2869388	2907774	2907787	2200325	2200326	2697194	2697204	2202344	2200332
ME MAX 45 F G…	2869391	2907774	2907787	2200325	2200326	2697194	2697204	2202344	2200332

9.2.3 Headers and connectors: ME MAX … 2-2: 3.5 mm and 7.25 mm pitch

Housing	… 2-2	Headers		Connectors			Headers		Connectors
		3.5 mm pitch					7.25 mm pitch		
		Wave soldering		Screw	Push-in		Reflow soldering (THR)		Screw
		MCO 1,5/…G1…-3,5 page 31		MC page 36	FMC page 38	FK-MC page 37	GMSTBO 2,5HV/…G…THR page 35		GMSTBT 2,5 HV page 41
	Order No.	Left	Right				Left	Right	
Design: standard, depth: 114.5 mm									
ME MAX 6,2 SC... ME MAX 6,2 SP…	–	–	–	–	–	–	–	–	–
ME MAX 12,5... ME MAX 12,5 G…	–	–	–	–	–	–	–	–	–
ME MAX 17,5... ME MAX 17,5 G…	2713599 2713609	2278364	2278377	1769074	1773578	1773594	2199867	2199760	2199757
ME MAX 35... ME MAX 35 G…	2713625 2713638	2278380	2278351	1769087	1773581	1773604	2199663	2199566	2199553
ME MAX 35... ME MAX 35 G…	2713670 2713683	2278364	2278377	1769074	1773578	1773594	2199867	2199760	2199757
ME MAX 45... ME MAX 45 G…	2713706 2713719	2278380	2278351	1769087	1773581	1773604	2199663	2199566	2199553
ME MAX 67,5... ME MAX 67,5 G…	2200524 2200525	2278380	2278351	1769087	1773581	1773604	2199663	2199566	2199553
ME MAX 90... ME MAX 90 G…	2200529 2200530	2278380	2278351	1769087	1773581	1773604	2199663	2199566	2199553
Design: flat, depth: 92 mm									
ME MAX 22,5 F G…	–	2278380	2278351	1769087	1773581	1773604	–	–	–
ME MAX 45 F G…	–	2278380	2278351	1769087	1773581	1773604	–	–	–
Design: super flat, depth: 70.4 mm									
ME MAX 17,5 SF G…	2901369	2278364	2278377	1769074	1773578	1773594	2199867	2199760	2199757
ME MAX 22,5 SF G…	2869362	2278380	2278351	1769087	1773581	1773604	2199663	2199566	2199553
ME MAX 45 SF G…	2869375	2278380	2278351	1769087	1773581	1773604	2199663	2199566	2199553

9.2.4 Headers and connectors: ME MAX … 2-2: 5 mm pitch

Housing	… 2-2	Headers						Connectors	
		5 mm pitch							
		Wave soldering		Reflow soldering (THR)		Wave soldering		Push-in	Screw
		MSTBO 2,5/…G1 page 32		MSTBO 2,5/ …G1…THR… page 34		MSTBO 2,5/…G1P page 33		PSPT 2,5/… page 40	MSTBT 2,5 HC/ page 39
	Order No.	Left	Right	Left	Right	Left	Right		
Design: standard, depth: 114.5 mm									
ME MAX 6,2 SC... ME MAX 6,2 SP…	–	–	–	–	–	–	–	–	–
ME MAX 12,5... ME MAX 12,5 G…	–	–	–	–	–	–	–	–	–
ME MAX 17,5... ME MAX 17,5 G…	2713599 2713609	2853750	2853763	2915216	2915229	2200328	2200329	2202345	2200333
ME MAX 35... ME MAX 35 G…	2713625 2713638	2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332
ME MAX 35... ME MAX 35 G…	2713670 2713683	2853750	2853763	2915216	2915229	2200328	2200329	2202345	2200333
ME MAX 45... ME MAX 45 G…	2713706 2713719	2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332
ME MAX 67,5... ME MAX 67,5 G…	2200524 2200525	2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332
ME MAX 90... ME MAX 90 G…	2200529 2200530	2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332
Design: flat, depth: 92 mm									
ME MAX 22,5 F G…	–	–	–	–	–	–	–	–	–
ME MAX 45 F G…	–	–	–	–	–	–	–	–	–
Design: super flat, depth: 70.4 mm									
ME MAX 17,5 SF G…	2901369	2853750	2853763	2915216	2915229	2200328	2200329	2202345	2200333
ME MAX 22,5 SF G…	2869362	2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332
ME MAX 45 SF G…	2869375	2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332

9.2.5 Headers and connectors: ME MAX … U-U1: 3.5 mm and 7.25 mm pitch

Housing	… U-U1	Headers		Connectors			Headers		Connectors	
		3.5 mm pitch					7.25 mm pitch			
		Wave soldering		Screw	Push-in		Wave soldering		Push-in	Screw
		MCO 1,5/…G1…-3,5 page 31		MC page 36	FMC page 38	FK-MC page 37	MSTBO 2,5/…G1P page 33		PSPT 2,5/… page 40	MSTBT 2,5 HC/ page 39
	Order No.	Left	Right				Left	Right		
Design: standard, depth: 114.5 mm										
ME MAX 6,2 SC... ME MAX 6,2 SP…	–	–	–	–	–	–	–	–	–	–
ME MAX 12,5... ME MAX 12,5 G…	–	–	–	–	–	–	–	–	–	–
ME MAX 17,5... ME MAX 17,5 G…	2713641 2713515	2278364	2278377	1769074	1773578	1773594	2200328	2200329	2202345	2200333
ME MAX 35... ME MAX 35 G…	2713476 2713489	2278380	2278351	1769087	1773581	1773604	2200325	2200326	2202344	2200332
ME MAX 35... ME MAX 35 G…	2713667 2713528	2278364	2278377	1769074	1773578	1773594	2200328	2200329	2202345	2200333
ME MAX 45... ME MAX 45 G…	2713492 2713502	2278380	2278351	1769087	1773581	1773604	2200325	2200326	2202344	2200332
ME MAX 67,5... ME MAX 67,5 G…	2200547 2200528	2278380	2278351	1769087	1773581	1773604	2200325	2200326	2202344	2200332
ME MAX 90... ME MAX 90 G…	2200546 2200533	2278380	2278351	1769087	1773581	1773604	2200325	2200326	2202344	2200332
Design: flat, depth: 92 mm										
ME MAX 22,5 F G…	–	–	–	–	–	–	–	–	–	–
ME MAX 45 F G…	–	–	–	–	–	–	–	–	–	–
Design: super flat, depth: 70.4 mm										
ME MAX 17,5 SF G…	–	–	–	–	–	–	–	–	–	–
ME MAX 22,5 SF G…	–	–	–	–	–	–	–	–	–	–
ME MAX 45 SF G…	–	–	–	–	–	–	–	–	–	–

9.2.6 Headers and connectors: ME MAX … U-U1: 5 mm pitch

Housing	… U-U1	Headers						Connectors	
		5 mm pitch							
		Wave soldering		Reflow soldering (THR)		Wave soldering		Push-in	Screw
		MSTBO 2,5/…G1 page 32		MSTBO 2,5/ …G1…THR… page 34		MSTBO 2,5/…G1P page 33		PSPT 2,5/… page 40	MSTBT 2,5 HC/ page 39
	Order No.	Left	Right	Left	Right	Left	Right		
Design: standard, depth: 114.5 mm									
ME MAX 6,2 SC... ME MAX 6,2 SP…	–	–	–	–	–	–	–	–	–
ME MAX 12,5... ME MAX 12,5 G…	–	–	–	–	–	–	–	–	–
ME MAX 17,5... ME MAX 17,5 G…	2713641 2713515	2853750	2853763	2915216	2915229	2200328	2200329	2202345	2200333
ME MAX 35... ME MAX 35 G…	2713476 2713489	2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332
ME MAX 35... ME MAX 35 G…	2713667 2713528	2853750	2853763	2915216	2915229	2200328	2200329	2202345	2200333
ME MAX 45... ME MAX 45 G…	2713492 2713502	2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332
ME MAX 67,5... ME MAX 67,5 G…	2200547 2200528	2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332
ME MAX 90... ME MAX 90 G…	2200546 2200533	2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332
Design: flat, depth: 92 mm									
ME MAX 22,5 F G…	–	–	–	–	–	–	–	–	–
ME MAX 45 F G…	–	–	–	–	–	–	–	–	–
Design: super flat, depth: 70.4 mm									
ME MAX 17,5 SF G…	–	–	–	–	–	–	–	–	–
ME MAX 22,5 SF G…	–	–	–	–	–	–	–	–	–
ME MAX 45 SF G…	–	–	–	–	–	–	–	–	–

9.2.7 Headers and connectors: ME MAX … 3-U1: 3.5 mm and 7.25 mm pitch

Housing	… 3-U1	Headers		Connectors			Headers		Connectors
		3.5 mm pitch					7.25 mm pitch		
		Wave soldering		Screw	Push-in		Reflow soldering (THR)		Screw
		MCO 1,5/…G1…-3,5 page 31		MC page 36	FMC page 38	FK-MC page 37	GMSTBO 2,5HV/…G…THR page 35		GMSTBT 2,5 HV page 41
	Order No.	Left	Right				Left	Right	
Design: standard, depth: 114.5 mm									
ME MAX 6,2 SC... ME MAX 6,2 SP…	–	–	–	–	–	–	–	–	–
ME MAX 12,5... ME MAX 12,5 G…	–	–	–	–	–	–	–	–	–
ME MAX 17,5... ME MAX 17,5 G…	2201536 2201537	2278364	2278377	1769074	1773578	1773594	2199867	2199760	2199757
ME MAX 35... ME MAX 35 G…	2201538 2201539	2278380	2278351	1769087	1773581	1773604	2199663	2199566	2199553
ME MAX 35... ME MAX 35 G…									
ME MAX 45... ME MAX 45 G…	2201682 2201683	2278380	2278351	1769087	1773581	1773604	2199663	2199566	2199553
ME MAX 67,5... ME MAX 67,5 G…	–	–	–	–	–	–	–	–	–
ME MAX 90... ME MAX 90 G…	–	–	–	–	–	–	–	–	–
Design: flat, depth: 92 mm									
ME MAX 22,5 F G…	–	–	–	–	–	–	–	–	–
ME MAX 45 F G…	–	–	–	–	–	–	–	–	–
Design: super flat, depth: 70.4 mm									
ME MAX 17,5 SF G…	–	–	–	–	–	–	–	–	–
ME MAX 22,5 SF G…	–	–	–	–	–	–	–	–	–
ME MAX 45 SF G…	–	–	–	–	–	–	–	–	–

9.2.8 Headers and connectors: ME MAX … 3-U1: 5 mm pitch

Housing	… 3-U1	Headers						Connectors	
		5 mm pitch							
		Wave soldering		Reflow soldering (THR)		Wave soldering		Push-in	Screw
		MSTBO 2,5/…G1 page 32		MSTBO 2,5/ …G1…THR… page 34		MSTBO 2,5/…G1P page 33		PSPT 2,5/… page 40	MSTBT 2,5 HC/ page 39
	Order No.	Left	Right	Left	Right	Left	Right		
Design: standard, depth: 114.5 mm									
ME MAX 6,2 SC... ME MAX 6,2 SP…	–	–	–	–	–	–	–	–	–
ME MAX 12,5... ME MAX 12,5 G…	–	–	–	–	–	–	–	–	–
ME MAX 17,5... ME MAX 17,5 G…	2201536 2201537	2853750	2853763	2915216	2915229	2200328	2200329	2202345	2200333
ME MAX 35... ME MAX 35 G…	2201538 2201539	2907774	2907787	2697194	2697204	–	–	–	–
ME MAX 35... ME MAX 35 G…	–	–	–	–	–	2200328	2200329	2202345	2200333
ME MAX 45... ME MAX 45 G…	2201682 2201683	2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332
ME MAX 67,5... ME MAX 67,5 G…	–	–	–	–	–	–	–	–	–
ME MAX 90... ME MAX 90 G…	–	–	–	–	–	–	–	–	–
Design: flat, depth: 92 mm									
ME MAX 22,5 F G…	–	–	–	–	–	–	–	–	–
ME MAX 45 F G…	–	–	–	–	–	–	–	–	–
Design: super flat, depth: 70.4 mm									
ME MAX 17,5 SF G…	–	–	–	–	–	–	–	–	–
ME MAX 22,5 SF G…	–	–	–	–	–	–	–	–	–
ME MAX 45 SF G…	–	–	–	–	–	–	–	–	–

9.3 PCB terminal blocks

9.3.1 PCB terminal blocks for ME MAX … 2-2 and 3-3

Housing	… 3-3	… 2-2	3.5 mm pitch		5 mm pitch				7.5 mm pitch			
			Screw		Screw		Push-in		Screw		Push-in	
			MKDSO 1,5 page 27		MKDSO 2,5 page 28		FKDSO 2,5 page 29		MKDSO 2,5 HV page 30		FKDSO 2,5 HV page 29	
	Order No.		Left	Right	Left	Right	Left	Right	Left	Right	Left	Right
Design: standard, depth: 114.5 mm												
ME MAX 6,2 SC...	–	–	–	–	–	–	–	–	–	–	–	–
ME MAX 6,2 SP…												
ME MAX 12,5...	2279020	–	2278445	2278458	2915261	2915258	2200315	2200316	–	–	–	–
ME MAX 12,5 G…	2279017											
ME MAX 17,5...	2713612	2713599	2278432	2278429	2854102	2854092	2200318	2200317	2199676	2199773	–	–
ME MAX 17,5 G…	2713531	2713609										
ME MAX 35...	2713939	2713612	2278393	2278416	2908485	2908472	2200319	2200320	2890946	2890959	2201128	2201129
ME MAX 35 G…	2713942	2713531										
ME MAX 35...	2713696	2713670	2278432	2278429	2854102	2854092	2200318	2200317	2199676	2199773	–	2201129
ME MAX 35 G…	2713544	2713683										
ME MAX 45...	2713913	2713706	2278393	2278416	2908485	2908472	2200319	2200320	2890946	2890959	2201128	2201129
ME MAX 45 G…	2713926	2713719										
ME MAX 67,5...	2200526	2200524	2278393	2278416	2908485	2908472	2200319	2200320	2890946	2890959	2201128	2201129
ME MAX 67,5 G…	2200527	2200525										
ME MAX 90...	2200531	2200529	2278393	2278416	2908485	2908472	2200319	2200320	2890946	2890959	2201128	2201129
ME MAX 90 G…	2200532	2200530										
Design: flat, depth: 92 mm												
ME MAX 22,5 F G…	2869388	–	2278393	2278416	2908485	2908472	2200319	2200320	2890946	2890959	2201128	2201129
ME MAX 45 F G…	2869391	–	2278393	2278416	2908485	2908472	2200319	2200320	2890946	2890959	2201128	2201129
Design: super flat, depth: 70.4 mm												
ME MAX 17,5 SF G…	–	2901369	2278432	2278429	2854102	2854092	2200318	2200317	2199676	2199773	–	–
ME MAX 22,5 SF G…	–	2869362	2278393	2278416	2908485	2908472	2200319	2200320	2890946	2890959	2201128	2201129
ME MAX 45 SF G…	–	2869375	2278393	2278416	2908485	2908472	2200319	2200320	2890946	2890959	2201128	2201129

9.3.2 PCB terminal blocks for ME MAX … U-U1 and 3-U1

Housing	…U-U1	…3-U1	3.5 mm pitch		5 mm pitch				7.5 mm pitch			
			Screw		Screw		Push-in		Screw		Push-in	
			MKDSO 1,5 page 27		MKDSO 2,5 page 28		FKDSO 2,5 page 29		MKDSO 2,5 HV page 30		FKDSO 2,5 HV page 29	
	Order No.	Order No.	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right
Design: standard, depth: 114.5 mm												
ME MAX 6,2 SC... ME MAX 6,2 SP…	–	–	–	–	–	–	–	–	–	–	–	–
ME MAX 12,5... ME MAX 12,5 G…	–	–	–	–	–	–	–	–	–	–	–	–
ME MAX 17,5... ME MAX 17,5 G…	2713641 2713515	2201536 2201537	2278432	2278429	2854102	2854092	2200318	2200317	2199676	2199773	–	–
ME MAX 35... ME MAX 35 G…	2713476 2713489	2201538 2201539	2278393	2278416	2908485	2908472	2200319	2200320	2890946	2890959	2201128	2201129
ME MAX 35... ME MAX 35 G…	2713667 2713528	–	2278432	2278429	2854102	2854092	2200318	2200317	2199676	2199773	–	2201129
ME MAX 45... ME MAX 45 G…	2713492 2713502	2201682 2201683	2278393	2278416	2908485	2908472	2200319	2200320	2890946	2890959	2201128	2201129
ME MAX 67,5... ME MAX 67,5 G…	2200547 2200528	–	2278393	2278416	2908485	2908472	2200319	2200320	2890946	2890959	2201128	2201129
ME MAX 90... ME MAX 90 G…	2200546 2200533	–	2278393	2278416	2908485	2908472	2200319	2200320	2890946	2890959	2201128	2201129
Design: flat, depth: 92 mm												
ME MAX 22,5 F G…	–	–	–	–	–	–	–	–	–	–	–	–
ME MAX 45 F G…	–	–	–	–	–	–	–	–	–	–	–	–
Design: super flat, depth: 70.4 mm												
ME MAX 17,5 SF G…	–	–	–	–	–	–	–	–	–	–	–	–
ME MAX 22,5 SF G…	–	–	–	–	–	–	–	–	–	–	–	–
ME MAX 45 SF G…	–	–	–	–	–	–	–	–	–	–	–	–

9.4 Filler plugs

Housing	... 6,2...	… 3-3	… 2-2	… U-U1	… 3-U1	Filler plugs
	Order No.					ME MAX B-…
Design: standard, depth: 114.5 mm						
ME MAX 6,2 SC... ME MAX 6,2 SP…	2869634* 2869647**	–	–	–	–	–
ME MAX 12,5... ME MAX 12,5 G…	–	2279020 2279017	–	–	–	2914660
ME MAX 17,5... ME MAX 17,5 G…	–	2713612 2713531	2713599 2713609	2713641 2713515	2201536 2201537	2706959
ME MAX 35... ME MAX 35 G…	–	2713939 2713942	2713625 2713638	2713476 2713489	2201538 2201539	2707929
ME MAX 35... ME MAX 35 G…	–	2713696 2713544	2713670 2713683	2713667 2713528	–	2706959
ME MAX 45... ME MAX 45 G…	–	2713913 2713926	2713706 2713719	2713492 2713502	2201682 2201683	2707929
ME MAX 67,5... ME MAX 67,5 G…	–	2200526 2200527	2200524 2200525	2200547 2200528	–	2707929
ME MAX 90... ME MAX 90 G…	–	2200531 2200532	2200529 2200530	2200546 2200533	–	2707929
Design: flat, depth: 92 mm						
ME MAX 22,5 F G…	–	2869388	–	–	–	2707929
ME MAX 45 F G…	–	2869391	–	–	–	2707929
Design: super flat, depth: 70.4 mm						
ME MAX 17,5 SF G…	–	–	2901369	–	–	2706959
ME MAX 22,5 SF G…	–	–	2869362	–	–	2707929
ME MAX 45 SF G…	–	–	2869375	–	–	2707929

9.5 DIN rail connectors

Housing	... 6,2...	… 3-3	… 2-2	… U-U1	… 3-U1	3.81 mm pitch		
						ME.. TBUS1,5/ 5	ME..TBUS..4P 1S	ME …TBUS adapter
	Order No.					5 parallel positions	4 parallel positions, 1 serial position	Adapter, 5 parallel positions
Design: standard, depth: 114.5 mm								
ME MAX 6,2 SC... ME MAX 6,2 SP…	2869634[1] 2869647[2]	–	–	–	–	2969401 2279033[3]	–	–
ME MAX 12,5... ME MAX 12,5 G…	–	2279020 2279017		–	–	2969401	–	–
ME MAX 17,5... ME MAX 17,5 G…	–	2713612 2713531	2713599 2713609	2713641 2713515	2201536 2201537	2713645	2201731	2201757
ME MAX 35... ME MAX 35 G…	–	2713939 2713942	2713625 2713638	2713476 2713489	2201538 2201539	2713722	2201732	2201756
ME MAX 35... ME MAX 35 G…	–	2713696 2713544	2713670 2713683	2713667 2713528	–	2713645[4]	2201731[4]	2201757
ME MAX 45... ME MAX 45 G…	–	2713913 2713926	2713706 2713719	2713492 2713502	2201682 2201683	2713722[4]	2201732[4]	2201756
ME MAX 67,5... ME MAX 67,5 G…	–	2200526 2200527	2200524 2200525	2200547 2200528	–	2713722[4]	2201732[4]	2201756
ME MAX 90... ME MAX 90 G…	–	2200531 2200532	2200529 2200530	2200546 2200533	–	2713722[4]	2201732[4]	2201756
Design: flat, depth: 92 mm								
ME MAX 22,5 F G…	–	2869388	–	–	–	2713722	2201732	2201756
ME MAX 45 F G…	–	2869391	–	–	–	2713722[4]	2201732[4]	2201756
Design: super flat, depth: 70.4 mm								
ME MAX 17,5 SF G…	–	–	2901369	–	–	2713645	2201731	
ME MAX 22,5 SF G…	–	–	2869362	–	–	2713722	2201732	2201756
ME MAX 45 SF G…	–	–	2869375	–	–	2713722*[4]	2201732[4]	2201756

[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] Pin strip for contacting required in the DIN rail connector

[4] DIN rail connector and DIN rail adapter can be freely selected depending on the housing width

9.6 Power connectors

Housing	… 3-3	… 2-2	… U-U1	… 3-U1	Power connectors			
					PCO…-L[1]	PBR 42A RD	PBR 42A BU	PBR 42A GY
	Order No.				Left	Cross connectors		
Design: standard, depth: 114.5 mm								
ME MAX 6,2 SC...[2] ME MAX 6,2 SP…[3]	–	–	–	–	–	–	–	–
ME MAX 12,5... ME MAX 12,5 G…	2279020 2279017	–	–	–	–	–	–	–
ME MAX 17,5... ME MAX 17,5 G…	2713612 2713531	2713599 2713609	2713641 2713515	2201536 2201537	2201684	2201915	2201916	2201917
ME MAX 35... ME MAX 35 G…	2713939 2713942	2713625 2713638	2713476 2713489	2201538 2201539	2201685	2201915	2201916	2201917
ME MAX 35... ME MAX 35 G…	2713696 2713544	2713670 2713683	2713667 2713528	–	2201684	2201915	2201916	2201917
ME MAX 45... ME MAX 45 G…	2713913 2713926	2713706 2713719	2713492 2713502	2201682 2201683	2201685	2201915	2201916	2201917
ME MAX 67,5... ME MAX 67,5 G…	2200526 2200527	2200524 2200525	2200547 2200528	–	2201685	2201915	2201916	2201917
ME MAX 90... ME MAX 90 G…	2200531 2200532	2200529 2200530	2200546 2200533	–	2201685	2201915	2201916	2201917
Design: flat, depth: 92 mm								
ME MAX 22,5 F G…	2869388	–	–	–	2201685	2201915	2201916	2201917
ME MAX 45 F G…	2869391	–	–	–	2201685	2201915	2201916	2201917
Design: super flat, depth: 70.4 mm								
ME MAX 17,5 SF G…	–	2901369	–	–	2201684	2201915	2201916	2201917
ME MAX 22,5 SF G…	–	2869362	–	–	2201685	2201915	2201916	2201917
ME MAX 45 SF G…	–	2869375	–	–	2201685	2201915	2201916	2201917

[1] Note: swiveling an ME MAX combined with PCO onto the DIN rail is only possible for the tall ME MAX...2-2 design

[2] ME MAX 6,2 SC… has four connection levels with screw connection

[3] ME MAX 6,2 SP… has four connection levels with spring connection

10 Connection technology – Technical data

10.1 PCB terminal block

10.1.1 PCB terminal block, soldered, 3.5 mm pitch, screw connection

Mounting: soldering

Figure 11 MKDSO 3,5 PCB terminal block

The latest data and drawings for the product can be found at phoenixcontact.com.

MKDSO 1,5/...3,5

Dimensions	
Pitch	3.5 mm
Pin dimensions	0.8 x 0.8
Hole diameter	1.2 mm

Product		Dimension a	No. of pos.
MKDSO 1,5/ 5-L-3,5 KMGY	2278393	14.00	5
MKDSO 1,5/ 5-R-3,5 KMGY	2278416	14.00	5
MKDSO 1,5/ 4-R-3,5 KMGY	2278429	10.50	4
MKDSO 1,5/ 4-L-3,5 KMGY	2278432	10.50	4
MKDSO 1,5/ 3-L-3,5 KMGY	2278445	7.00	3
MKDSO 1,5/ 3-R-3,5 KMGY	2278458	7.00	3

Technical data	
Insulation material group	PA / I
Rated surge voltage (III/3)	2.5 kV
Rated surge voltage (III/2)	2.5 kV
Rated surge voltage (II/2)	2.5 kV
Rated voltage (III/3)	160 V
Rated voltage (III/2)	160 V
Rated voltage (II/2)	320 V
Connection in acc. with standard	EN-VDE
Nominal current I_N	24 A
Nominal cross section	1.5 mm²
Rated current, with 1.5 mm² conductor cross section	8 A
Insulation material	PA
Flammability rating UL 94	V0
Internal cylindrical gauge	A1
Stripping length	7 mm
Screw thread	M2
Tightening torque	0.22 Nm ... 0.25 Nm

Conductor cross section	
Conductor cross section rigid	0.14 mm² ... 1.5 mm²
Conductor cross section flexible	0.14 mm² ... 1.5 mm²
Conductor cross section flexible with ferrule without plastic sleeve	0.25 mm² ... 1.5 mm²
Conductor cross section flexible with ferrule with plastic sleeve	0.25 mm² ... 0.5 mm²
Conductor cross section AWG	28 ... 16
2 conductors with the same cross section rigid	0.08 mm² ... 0.5 mm²
2 conductors with the same cross section flexible	0.08 mm² ... 0.75 mm²
2 conductors with the same cross section flexible with ferrule without plastic sleeve	0.25 mm² ... 0.34 mm²
2 conductors with the same cross section flexible with TWIN ferrule and plastic sleeve	0.5 mm² ... 0.5 mm²

10.1.2 PCB terminal block, soldered, 5 mm pitch, screw connection

Mounting: soldering

Figure 12 MKDSO 2,5 PCB terminal block

The latest data and drawings for the product can be found at phoenixcontact.com.

MKDSO 2,5

Dimensions	
Pitch	5 mm
Pin dimensions	0.8 x 1.0
Hole diameter	1.4 mm

Product		Dimension a	No. of pos.
MKDSO 2,5/ 2-L	2915261	5	2
MKDSO 2,5/ 2-R	2915258	5	2
MKDSO 2,5/ 3-R	2854102	10	3
MKDSO 2,5/ 3-L	2854092	10	3
MKDSO 2,5/ 4-L	2908485	15	4
MKDSO 2,5/ 4-R	2908472	15	4

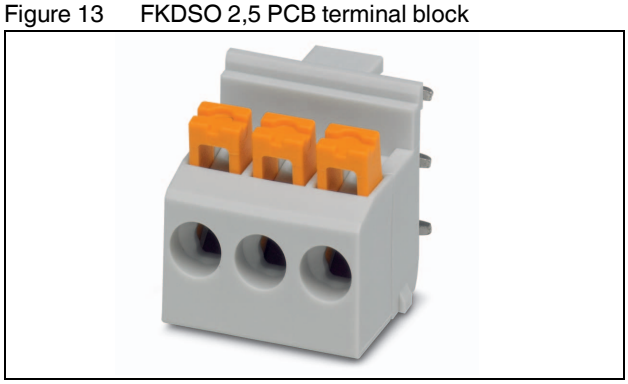
Technical data	
Insulation material group	PA / I
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2)	4 kV
Rated voltage (III/3)	250 V
Rated voltage (III/2)	320 V
Rated voltage (II/2)	630 V
Connection in acc. with standard	EN-VDE
Nominal current I_N	24 A
Nominal cross section	2.5 mm²
Insulation material	PA
Flammability rating UL 94	V0
Internal cylindrical gauge	A2
Stripping length	8 mm
Screw thread	M3
Tightening torque, min.	0.5 Nm ... 0.6 Nm

Conductor cross section	
Conductor cross section rigid	0.14 mm² ... 2.5 mm²
Conductor cross section flexible	0.14 mm² ... 2.5 mm²
Conductor cross section AWG	26 ... 14
2 conductors with the same cross section rigid	0.14 mm² ... 0.75 mm²
2 conductors with the same cross section flexible	0.14 mm² ... 0.75 mm²
2 conductors with the same cross section flexible with ferrule without plastic sleeve	0.25 mm² ... 0.75 mm²
2 conductors with the same cross section flexible with TWIN ferrule and plastic sleeve	0.5 mm² ... 1.5 mm²

10.1.3 PCB terminal block, soldered, 5 mm pitch, spring connection

Mounting: soldering

Figure 13 FKDSO 2,5 PCB terminal block



The latest data and drawings for the product can be found at phoenixcontact.com.

FKDSO 2,5

Dimensions	
Pitch	5 mm
Pin dimensions	0.8 x 1.0
Hole diameter	1.4 mm

Product		Dimension a	No. of pos.
FKDSO 2,5/ 2-L	2200315	5	2
FKDSO 2,5/ 2-R	2200316	5	2
FKDSO 2,5/ 3-R	2200317	10	3
FKDSO 2,5/ 3-L	2200318	10	3
FKDSO 2,5/ 4-L	2200319	15	4
FKDSO 2,5/ 4-R	2200320	15	4

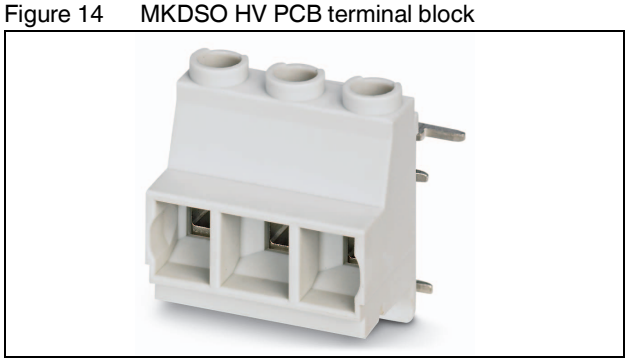
Technical data	
Insulation material group	PA / I
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2)	4 kV
Rated voltage (III/3)	250 V
Rated voltage (III/2)	320 V
Rated voltage (II/2)	630 V
Connection in acc. with standard	EN-VDE
Nominal current I_N	22 A
Nominal cross section	2.5 mm²
Insulation material	PA
Flammability rating UL 94	V0
Stripping length	10 mm

Conductor cross section	
Conductor cross section rigid	0.2 mm² ... 2.5 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 14
Conductor cross section flexible with ferrule without plastic sleeve	0.14 mm² ... 0.75 mm²
Conductor cross section flexible with ferrule and plastic sleeve	0.25 mm² ... 2.5 mm²
2 conductors with the same cross section flexible with ferrule without plastic sleeve	0.25 mm² ... 2.5 mm²
2 conductors with the same cross section flexible with TWIN ferrule and plastic sleeve	0.5 mm² ... 1.5 mm²

10.1.4 PCB terminal block, soldered, 7.5 mm pitch, screw connection

Mounting: soldering

Figure 14 MKDSO HV PCB terminal block



The latest data and drawings for the product can be found at phoenixcontact.com.

MKDSO 2,5 HV

Dimensions	
Pitch	7.5 mm
Pin length [P]	3.5 mm
Pin dimensions	0.8 x 1.0
Hole diameter	1.4 mm

Product		Dimension a	No. of pos.
MKDSO 2,5 HV/2L-7,5	2199676	7.5	2
MKDSO 2,5 HV/2R-7,5	2199773	7.5	2
MKDSO 2,5 HV/3L-7,5	2890946	15	3
MKDSO 2,5 HV/3R-7,5	2890959	15	3

Technical data	
Insulation material group	PA / I
Rated surge voltage (III/3)	6 kV
Rated surge voltage (III/2)	6 kV
Rated surge voltage (II/2)	6 kV
Rated voltage (III/3)	600 V
Rated voltage (III/2)	630 V
Rated voltage (II/2)	1000 V
Connection in acc. with standard	EN-VDE
Nominal current I_N	24 A
Nominal cross section	2.5 mm²
Insulation material	PA
Flammability rating UL 94	V0
Internal cylindrical gauge	A2
Stripping length	8 mm
Screw thread	M3
Tightening torque, min.	0.5 Nm ... 0.6 Nm

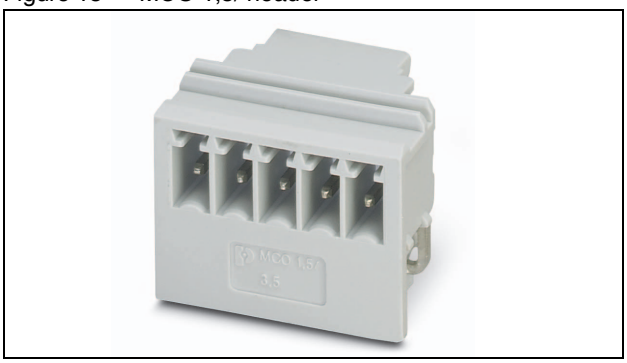
Conductor cross section	
Conductor cross section rigid	0.2 mm² ... 2.5 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section flexible with ferrule without plastic sleeve	0.25 mm² ... 2.5 mm²
Conductor cross section flexible with ferrule and plastic sleeve	0.25 mm² ... 2.5 mm²
Conductor cross section AWG	14 ... 24
2 conductors with the same cross section rigid	0.2 mm² ... 0.75 mm²
2 conductors with the same cross section flexible	0.2 mm² ... 0.75 mm²
2 conductors with the same cross section flexible with ferrule without plastic sleeve	0.25 mm² ... 0.75 mm²
2 conductors with the same cross section flexible with TWIN ferrule and plastic sleeve	0.25 mm² ... 1.5 mm²

10.2 Header

10.2.1 Header, soldered, 3.5 mm pitch

Mounting: soldering

Figure 15 MCO 1,5/ header



The latest data and drawings for the product can be found at phoenixcontact.com.

MCO 1,5/...G1...3,5

Dimensions	
Pitch	3.5 mm
Pin dimensions	0.8 x 0.8
Length of solder pin	3.0 mm
Hole diameter	1.2 mm

Product		Dimension a	No. of pos.
MCO 1,5/ 3-G1L-3,5	2278319	7	3
MCO 1,5/ 3-G1R-3,5	2278322	7	3
MCO 1,5/ 4-G1L-3,5	2278364	10.5	4
MCO 1,5/ 4-G1R-3,5	2278377	10.5	4
MCO 1,5/ 5-G1L-3,5	2278380	14	5
MCO 1,5/ 5-G1R-3,5	2278351	14	5

Technical data	
Insulation material group	PA / I
Rated surge voltage (III/3)	2.5 kV
Rated surge voltage (III/2)	2.5 kV
Rated surge voltage (II/2)	2.5 kV
Rated voltage (III/3)	160 V
Rated voltage (III/2)	160 V
Rated voltage (II/2)	20 V
Connection in acc. with standard	EN-VDE
Nominal current I_N	8 A
Maximum load current	8 A
Insulation material	PA
Flammability rating UL 94	V0

10.2.2 Header, wave soldered, 5 mm pitch

Mounting: soldering

Figure 16 MSTBO 2,5/... G1 header

The latest data and drawings for the product can be found at phoenixcontact.com.

MSTBO 2,5/...G1...

Dimensions	
Pitch	5 mm
Pin dimensions	1.0 x 1.0
Length of solder pin	3.5 mm
Hole diameter	1.4 mm

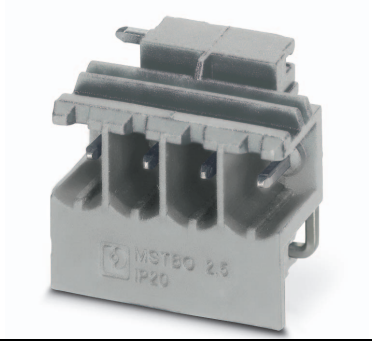
Product		Dimension a	No. of pos.
MSTBO 2,5/ 2-G1L KMGY	2854788	5	2
MSTBO 2,5/ 2-G1R KMGY	2854791	5	2
MSTBO 2,5/ 3-G1L KMGY	2853750	10	3
MSTBO 2,5/ 3-G1R KMGY	2853763	10	3
MSTBO 2,5/ 4-G1L KMGY	2907774	15	4
MSTBO 2,5/ 4-G1R KMGY	2907787	15	4

Technical data	
Insulation material group	PA / I
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2)	4 kV
Rated voltage (III/3)	250 V
Rated voltage (III/2)	320 V
Rated voltage (II/2)	400 V
Connection in acc. with standard	EN-VDE
Nominal current I_N	12 A
Maximum load current	12 A
Insulation material	PA
Flammability rating UL 94	V0

10.2.3 Header, wave soldered, 5 mm pitch

Mounting: soldering

Figure 17 MSTBO 2,5/... G1P header



The latest data and drawings for the product can be found at phoenixcontact.com.

MSTBO 2,5/...G1P...

Dimensions	
Pitch	5 mm
Pin dimensions	1.0 x 1.0
Length of solder pin	3.5 mm
Hole diameter	1.4 mm

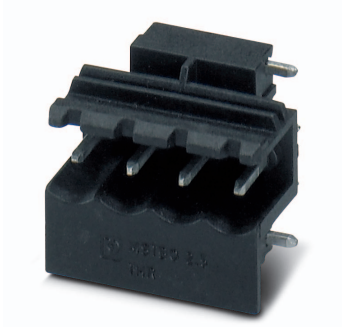
Product		Dimension a	No. of pos.
MSTBO 2,5/ 2-G1PL GY7035	2200330	5	2
MSTBO 2,5/ 2-G1PR GY7035	2200331	5	2
MSTBO 2,5/ 3-G1PL GY7035	2200328	10	3
MSTBO 2,5/ 3-G1PR GY7035	2200329	10	3
MSTBO 2,5/ 4-G1PL GY7035	2200325	15	4
MSTBO 2,5/ 4-G1PR GY7035	2200326	15	4

Technical data	
Insulation material group	PA / I
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2)	4 kV
Rated voltage (III/3)	250 V
Rated voltage (III/2)	320 V
Rated voltage (II/2)	400 V
Connection in acc. with standard	EN-VDE
Nominal current I_N	16 A
Maximum load current	16 A
Insulation material	PA
Flammability rating UL 94	V0

10.2.4 Header, reflow soldered (THR), 5 mm pitch

Mounting: reflow soldering (THR)

Figure 18 MSTBO 2,5/... G1...THR header



The latest data and drawings for the product can be found at phoenixcontact.com.

MSTBO 2,5/...G1...THR

Dimensions	
Pitch	5 mm
Pin dimensions	1.0 x 1.0
Length of solder pins	3.5 mm
Hole diameter	1.6 mm

Product		Dimension a	No. of pos.
MSTBO 2,5/ 2-G1L THRR32 BK	2200251	5	2
MSTBO 2,5/ 2-G1R THRR32 BK	2200252	5	2
MSTBO 2,5/ 3 G1L THRR44 BK	2915216	10	3
MSTBO 2,5/ 3 G1R THRR44 BK	2915229	10	3
MSTBO 2,5/ 4-G1L THRR44 BK	2697194	15	4
MSTBO 2,5/ 4-G1R THRR44 BK	2697204	15	4

Technical data	
Insulation material group	PA / I
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2)	4 kV
Rated voltage (III/3)	250 V
Rated voltage (III/2)	320 V
Rated voltage (II/2)	400 V
Connection in acc. with standard	EN-VDE
Nominal current I_N	16 A
Maximum load current	16 A
Insulation material	PA
Flammability rating UL 94	V0

10.2.5 Header, reflow soldered (THR), 7.25 mm pitch

Mounting: reflow soldering (THR)

Figure 19 GMSTBO 2,5/... G...-7,25 THR header

The latest data and drawings for the product can be found at phoenixcontact.com.

GMSTBO 2,5/...G...-7,25 THR

Dimensions	
Pitch	7.25 mm
Pin dimensions	1 x 1 mm
Hole diameter	1.5 mm

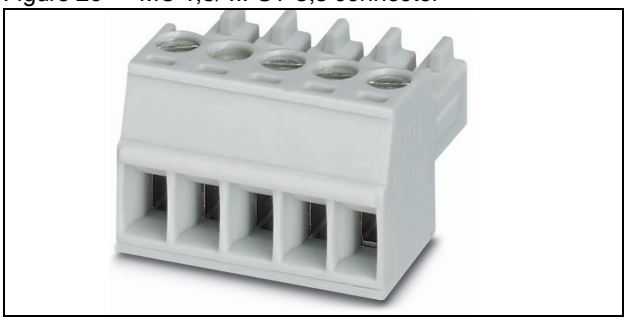
Product		Dimension a	No. of pos.
GMSTBO 2,5 HV/2-GL-7,25 THR	2199867	7.25	2
GMSTBO 2,5 HV/2-GR-7,25 THR	2199760	7.25	2
GMSTBO 2,5 HV/3-GL-7,25 THR	2199663	14.5	3
GMSTBO 2,5 HV/3-GR-7,25 THR	2199566	14.5	3

Technical data	
Insulation material group	IIIa
Rated surge voltage (III/3)	6 kV
Rated surge voltage (III/2)	6 kV
Rated surge voltage (II/2)	6 kV
Rated voltage (III/3)	400 V
Rated voltage (III/2)	630 V
Rated voltage (II/2)	630 V
Connection in acc. with standard	EN-VDE
Nominal current I_N	16 A
Maximum load current	16 A
Insulation material	LCP
Flammability rating UL 94	V0

10.3 Connectors

10.3.1 Connector, 3.5 mm pitch, screw connection

Figure 20 MC 1,5/ ...-ST-3,5 connector



The latest data and drawings for the product can be found at phoenixcontact.com.

MC 1,5/ ...-ST-3,5

Dimensions	
Pitch	3.5 mm

Product		Dimension a	No. of pos.
MC 1,5/ 3-ST-3,5 GY7035	1769061	7	3
MC 1,5/ 4-ST-3,5 GY7035	1769074	10.5	4
MC 1,5/ 5-ST-3,5 GY7035	1769087	14	5

Technical data	
Insulation material group	PA / I
Rated surge voltage (III/3)	2.5 kV
Rated surge voltage (III/2)	2.5 kV
Rated surge voltage (II/2)	2.5 kV
Rated voltage (III/3)	160 V
Rated voltage (III/2)	160 V
Rated voltage (II/2)	320 V
Connection in acc. with standard	EN-VDE
Nominal current I_N	8 A
Nominal cross section	1.5 mm²
Insulation material	PA
Flammability rating UL 94	V0
Internal cylindrical gauge	A1
Stripping length	7 mm
Screw thread	M2
Tightening torque, min.	0.22 Nm ... 0.25 Nm

Conductor cross section	
Conductor cross section rigid	0.14 mm² ... 1.5 mm²
Conductor cross section flexible	0.14 mm² ... 1.5 mm²
Conductor cross section AWG	28 ... 16
2 conductors with the same cross section rigid	0.08 mm² ... 0.5 mm²
2 conductors with the same cross section flexible	0.08 mm² ... 0.75 mm²
2 conductors with the same cross section flexible with ferrule without plastic sleeve	0.25 mm² ... 0.34 mm²
2 conductors with the same cross section flexible with TWIN ferrule and plastic sleeve	0.5 mm² ... 0.5 mm²

10.3.2 Connector, 3.5 mm pitch, Push-in connection, FK-MCP

Figure 21 MCP 1,5/ ...-ST-3,5 connector

The latest data and drawings for the product can be found at phoenixcontact.com.

FK-MCP 1,5/ ...-ST-3,5

Dimensions	
Pitch	3.5 mm

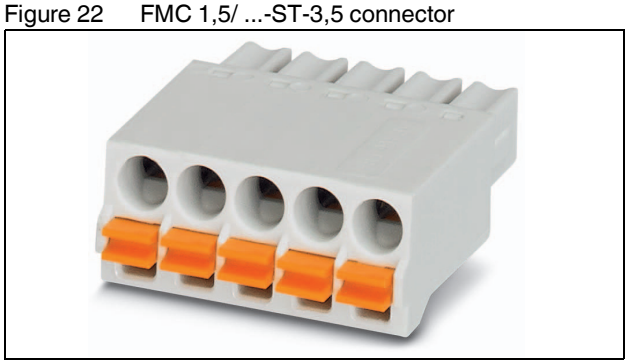
Product		Dimension a	No. of pos.
FK-MCP 1,5/ 4-ST-3,5 GY7035	1773594	10.5	4
FK-MCP 1,5/ 5-ST-3,5 GY7035	1773604	14	5

Technical data	
Insulation material group	PA / I
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/3)	160 V
Connection in acc. with standard	EN-VDE
Nominal current I_N	8 A
Nominal cross section	1.5 mm²
Insulation material	PA
Flammability rating UL 94	V0

Conductor cross section	
Conductor cross section rigid	0.14 mm² ... 1.5 mm²
Conductor cross section flexible	0.14 mm² ... 1.5 mm²
Conductor cross section AWG	28 ... 16
Conductor cross section flexible with ferrule without plastic sleeve	0.25 mm² ... 1.5 mm²
Conductor cross section flexible with ferrule and plastic sleeve	0.25 mm² ... 0.5 mm²

10.3.3 Connector, 3.5 mm pitch, Push-in connection, FMC

Figure 22 FMC 1,5/ ...-ST-3,5 connector



The latest data and drawings for the product can be found at phoenixcontact.com.

FMC 1,5/ ...-ST-3,5

Dimensions	
Pitch	3.5 mm

Product		Dimension a	No. of pos.
FMC 1,5/ 4-ST-3,5 GY7035	1773578	10.5	4
FMC 1,5/ 5-ST-3,5 GY7035	1773581	14	5

Technical data	
Insulation material group	PA / I
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/3)	160 V
Connection in acc. with standard	EN-VDE
Nominal current I_N	8 A
Nominal cross section	1.5 mm²
Insulation material	PA
Flammability rating UL 94	V0

Conductor cross section	
Conductor cross section rigid	0.2 mm² ... 1.5 mm²
Conductor cross section flexible	0.2 mm² ... 1.5 mm²
Conductor cross section AWG	24 ... 16
Conductor cross section flexible with ferrule without plastic sleeve	0.25 mm² ... 1.5 mm²
Conductor cross section flexible with ferrule and plastic sleeve	0.25 mm² ... 0.75 mm²

10.3.4 Connector, 5 mm pitch, screw connection

Figure 23 MSTBT 2,5 HC connector

The latest data and drawings for the product can be found at phoenixcontact.com.

MSTBT 2,5 HC

Dimensions	
Pitch	5 mm

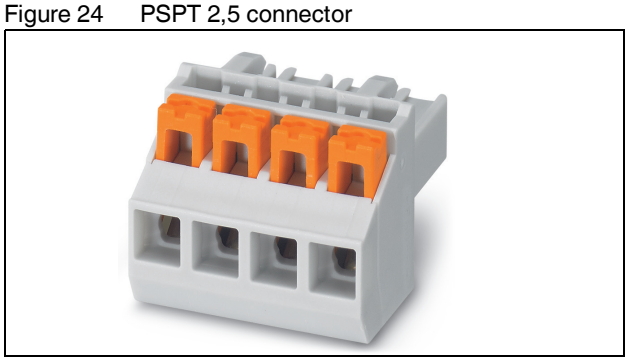
Product		Dimension a	No. of pos.
MSTBT 2,5 HC/ 2-STP GY7035	2200334	5	2
MSTBT 2,5 HC/ 3-STP GY7035	2200333	10	3
MSTBT 2,5 HC/ 4-STP GY7035	1769087	15	4

Technical data	
Insulation material group	PA / I
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2)	4 kV
Rated voltage (III/3)	250 V
Rated voltage (III/2)	320 V
Rated voltage (II/2)	630 V
Connection in acc. with standard	EN-VDE
Nominal current I_N	16 A
Maximum load current, for 2.5 mm^2 conductor cross section	16 A
Nominal cross section	2.5 mm^2
Insulation material	PA
Flammability rating UL 94	V0
Internal cylindrical gauge	A3
Stripping length	7 mm
Screw thread	M3
Tightening torque, min.	0.5 Nm ... 0.6 Nm

Conductor cross section	
Conductor cross section rigid	0.2 mm^2 ... 2.5 mm^2
Conductor cross section flexible	0.2 mm^2 ... 2.5 mm^2
Conductor cross section AWG	24 ... 12
2 conductors with the same cross section rigid	0.2 mm^2 ... 1 mm^2
2 conductors with the same cross section flexible	0.2 mm^2 ... 1.5 mm^2
2 conductors with the same cross section flexible with ferrule without plastic sleeve	0.25 mm^2 ... 1 mm^2
2 conductors with the same cross section flexible with TWIN ferrule and plastic sleeve	0.5 mm^2 ... 1.5 mm^2

10.3.5 Connector, 5 mm pitch, Push-in connection

Figure 24 PSPT 2,5 connector



The latest data and drawings for the product can be found at phoenixcontact.com.

PSPT 2,5/ ...-ST

Dimensions	
Pitch	5 mm

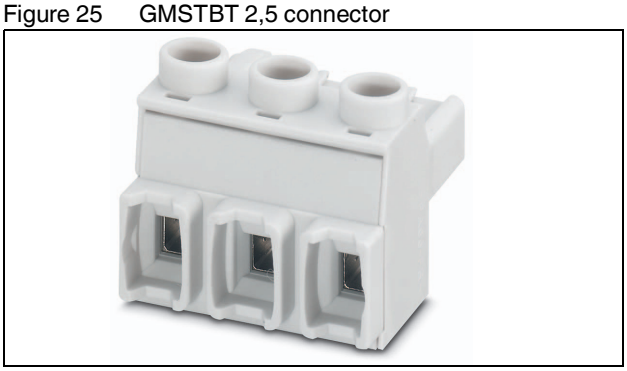
Product		Dimension a	No. of pos.
PSPT 2,5/ 2-ST KMGY	2202346	5	2
PSPT 2,5/ 3-ST KMGY	2202345	10	3
PSPT 2,5/ 4-ST KMGY	2202344	15	4

Technical data	
Insulation material group	PA / I
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2)	4 kV
Rated voltage (III/2)	300 V
Rated voltage (II/2)	600 V
Connection in acc. with standard	EN-VDE
Nominal current I_N	16 A
Nominal cross section	2.5 mm²
Insulation material	PA
Flammability rating UL 94	V0

Conductor cross section	
Conductor cross section rigid	0.2 mm² ... 2.5 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 16
Conductor cross section flexible with ferrule without plastic sleeve	0.20 mm² ... 2.5 mm²
Conductor cross section flexible with ferrule and plastic sleeve	0.25 mm² ... 2.5 mm²
2 conductors with the same cross section flexible with ferrule without plastic sleeve	0.25 mm² ... 0.34 mm²
2 conductors with the same cross section flexible with TWIN ferrule and plastic sleeve	0.5 mm² ... 1.5 mm²

10.3.6 Connector, 7.25 mm pitch, screw connection

Figure 25 GMSTBT 2,5 connector



The latest data and drawings for the product can be found at phoenixcontact.com.

GMSTBT 2,5

Dimensions	
Pitch	3.5 mm

Product		Dimension a	No. of pos.
GMSTBT 2,5 HV/2-ST-7,25 GY7035	1769061	7.25	2
GMSTBT 2,5 HV/3-ST-7,25 GY7035	1769074	14.5	3

Technical data	
Insulation material group	I
Rated surge voltage (III/3)	8 kV
Rated surge voltage (III/2)	8 kV
Rated surge voltage (II/2)	8 kV
Rated voltage (III/3)	1000 V
Rated voltage (III/2)	1000 V
Rated voltage (II/2)	1000 V
Connection in acc. with standard	EN-VDE
Nominal current I_N	16 A
Nominal cross section	2.5 mm²
Maximum load current	16 A
Insulation material	PA
Flammability rating UL 94	V0
Stripping length	8 mm
Screw thread	M3
Tightening torque	0.5 Nm ... 0.6 Nm

Conductor cross section	
Conductor cross section rigid	0.1 mm² ... 1.0 mm²
Conductor cross section flexible	0.2 mm² ... 1.5 mm²
Conductor cross section AWG	24 ... 12
2 conductors with the same cross section rigid	0.1 mm² ... 1.0 mm²
2 conductors with the same cross section flexible	0.2 mm² ... 1.5 mm²
2 conductors with the same cross section flexible with ferrule without plastic sleeve	0.25 mm² ... 2.5 mm²
2 conductors with the same cross section flexible with ferrule and plastic sleeve	0.25 mm² ... 2.5 mm²
AWG in acc. with UL/CUL	24 ... 12

10.3.7 ME MAX 6,2 with screw connection

Figure 26 ME MAX 6,2 SC 4-4 KMGY

The latest data and drawings for the product can be found at phoenixcontact.com.

Connection technology integrated in the housing

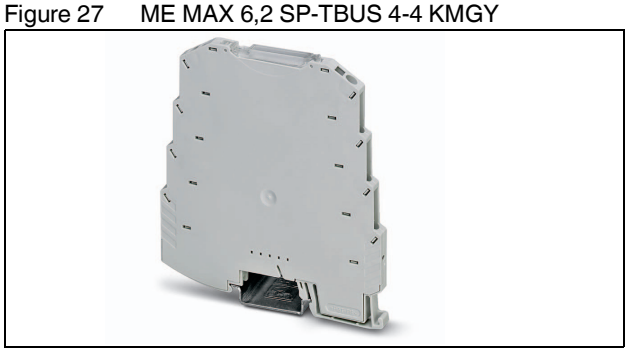
Product		No. of pos.
ME MAX 6,2 SC 4-4 KMGY	2713094	8
ME MAX 6,2 SC-TBUS 4-4 KMGY	2869634	8

Technical data	
Nominal voltage U_N	300 V
Connection in acc. with standard	CUL
Nominal current I_N	8 A
AWG/kcmil	30 ... 12
Indicator	CUL1
Stripping length	12 mm
Flammability rating UL 94	V0

Conductor cross section	
Conductor cross section rigid	0.2 mm^2 ... 2.5 mm^2
Conductor cross section flexible	0.2 mm^2 ... 2.5 mm^2
Conductor cross section AWG	26 ... 12

10.3.8 ME MAX 6,2 with spring-cage connection

Figure 27 ME MAX 6,2 SP-TBUS 4-4 KMGY



The latest data and drawings for the product can be found at phoenixcontact.com.

Connection technology integrated in the housing

Product		No. of pos.
ME MAX 6,2 SP 4-4 KMGY	2713104	8
ME MAX 6,2 SP-TBUS 4-4 KMGY	2869647	8

Technical data	
Nominal voltage U_N	300 V
Connection in acc. with standard	CUL
Nominal current I_N	8 A
AWG/kcmil	24 ... 12
Indicator	CUL1
Stripping length	8 mm
Flammability rating UL 94	V0

Conductor cross section	
Conductor cross section rigid	0.2 mm^2 ... 2.5 mm^2
Conductor cross section flexible	0.2 mm^2 ... 2.5 mm^2
Conductor cross section AWG	24 ... 12

11 Mounting the housing

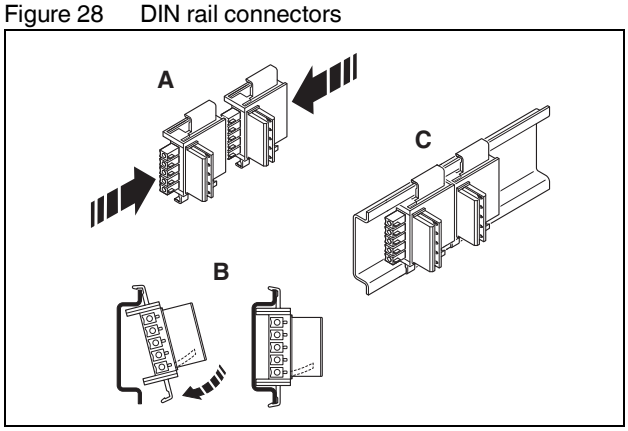
11.1 Mounting the DIN rail connector

If using a DIN rail connector, you must first insert it into the DIN rail.

The DIN rail connector is used to bridge the power supply and communication.

WARNING: Do not connect or disconnect the DIN rail connector under load.

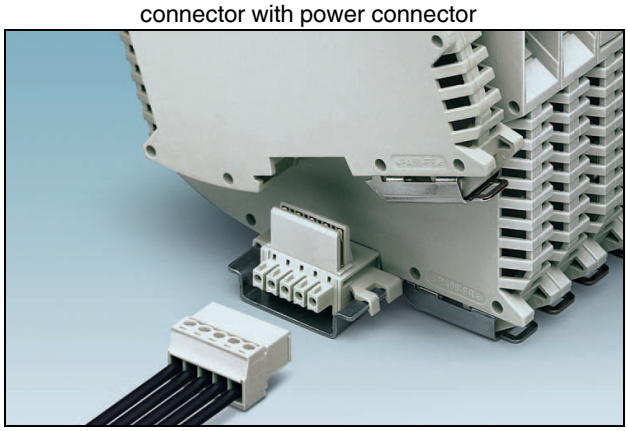
Figure 28 DIN rail connectors



Observe the snap-in direction of the housing and DIN rail connector: snap-on foot below and connector on the left.

- Connect the DIN rail connectors together.
- Push the connected DIN rail connectors onto the DIN rail.
- Place the device onto the DIN rail from above.
- Push the front of the device toward the mounting surface until it snaps into place with a click.

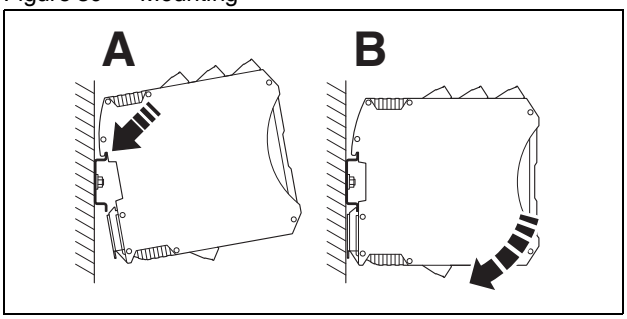
Figure 29 Tilting the ME MAX... housing onto the DIN rail connector with power connector



11.2 Mounting the housing on a DIN rail

Mounting

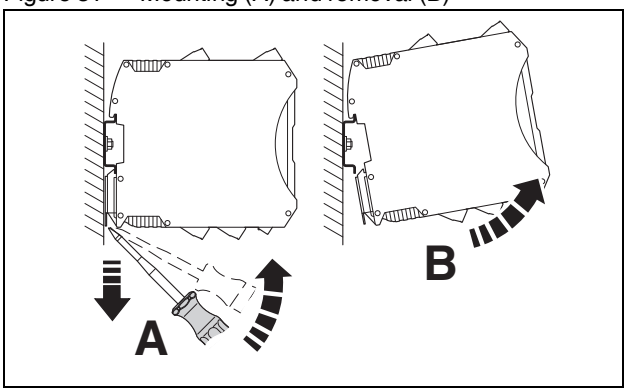
Figure 30 Mounting



- Place the device onto a 35 mm DIN rail from above. The upper housing keyway hooks onto the top edge of the DIN rail (A).
- Holding the device by the housing cover, carefully push it toward the mounting surface (B).
- Once the snap-on foot has audibly snapped onto the DIN rail, check that it is attached securely.

Removal

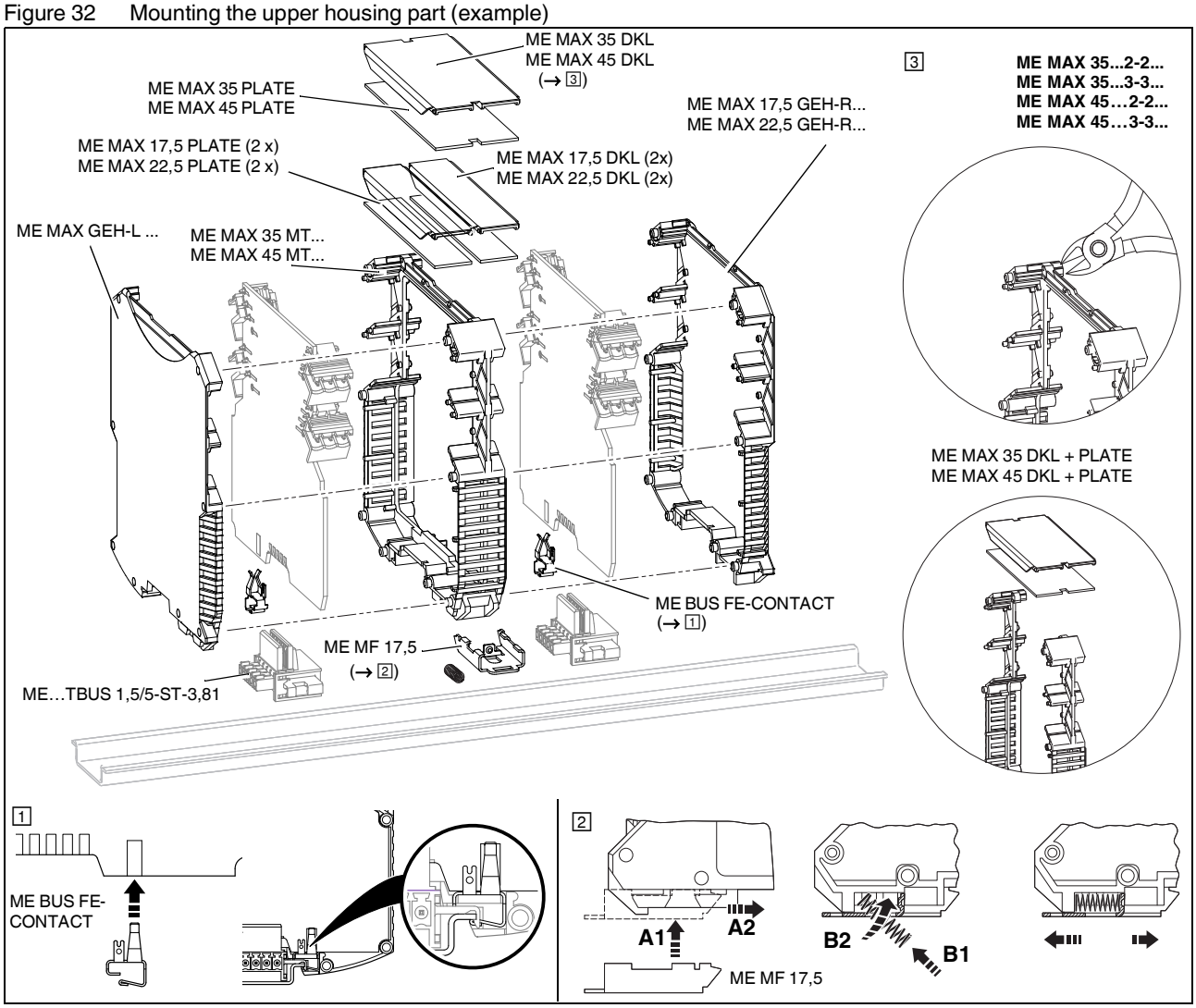
Figure 31 Mounting (A) and removal (B)



- Use a suitable screwdriver to release the locking mechanism on the snap-on foot of the device (A).
- Hold onto the device by the housing cover and carefully tilt it upwards (B).
- Carefully lift the device off the DIN rail.

11.3 Assembling the housing

Figure 32 Mounting the upper housing part (example)



- If required, mount the ME BUS FE CONTACT functional ground contact on the PCB. Place it inside the narrow housing part on the left. 1
- To configure larger housing, you will require ME MAX ... MT... middle parts.

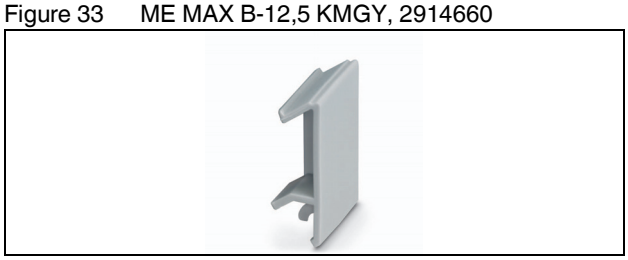
  Align the wider section of the middle part to the left.
- Latch the middle part to the assembled left-hand part of the housing.
- In the case of U-U... variants, attach the ME MAX ... PLATE cover.
- Insert additional PCBs on the right-hand side of the middle parts.
- Latch the right-hand part of the housing to the left-hand side.
- Cover the front with the ME MAX ... PLATE cover. For wider covers, you must remove the segment of the middle part 3.
- Finally, mount the transparent ME MAX ... DKL cover.
- Fit the base latch in the appropriate area on the housing. 2
- Move the base latch to the right. Insert the spring that is provided.

12 Accessories and customization

12.1 Accessories

Filler plugs

Figure 33 ME MAX B-12,5 KMGY, 2914660



ME MAX B... filler plugs are used to seal unused terminal points. One filler plug is required per terminal point.

Shield connection clamp

Figure 34 ME MAX-SAS, 2853899

The ME SAS shield connection clamp is used for the potential connection of shielded cables.

Functional ground contact

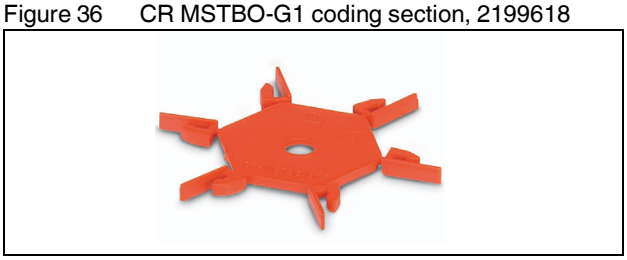
Figure 35 ME BUS FE CONTACT, 2278076

When you snap the housing onto a DIN rail, you can establish a conductive connection between the PCB and DIN rail.

The functional ground contact (FE) dos not satisfy the demands on a protective grounding connection (PE).

Coding section

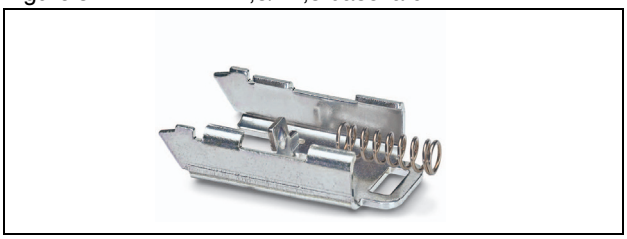
Figure 36 CR MSTBO-G1 coding section, 2199618



Using the coding section for MSTBO headers, you can ensure that connectors are only plugged onto the appropriate header.

Base latch

Figure 37 ME MF 12,5/17,5 base latch



The base latch ensures that the housing is securely attached to the DIN rail.

– ME MF 12,5, 2707466
– ME MF 17,5, 2908281

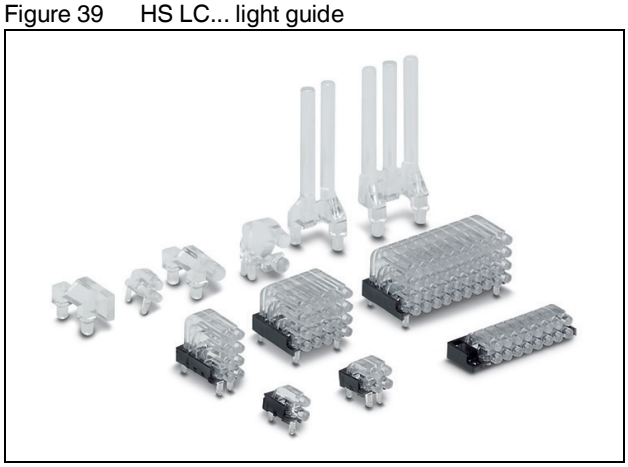
Filler plug

Figure 38 ME MAX TBUS BS KMGY, 2199650

If you are not using a DIN rail connector, close the cut-out in the housing with a filler plug.

HS LC light guide

Figure 39 HS LC... light guide

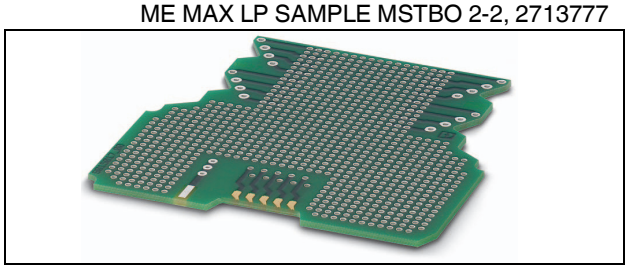


Light guides for visualization are available in a variety of designs. HS LC... light guides are fixed to the PCB.

PCB

Sample PCB, for self-assembly with contact for DIN rail in accordance with EN 60715.

Figure 40 Sample PCB:
ME MAX LP SAMPLE MSTBO 2-2, 2713777



12.2 Development kits

Development kits (DEV-KIT ME MAX) are suitable for configuring prototypes. They contain the housing with connection technology for a usable module. Corresponding PCBs are available.

12.3 Housing customization

Customer-specific solutions are available in addition to the standard range.

- **Color variants**
- **Markings** using different printing technologies
  - Pad printing: ideal for single-color or two-color printing
  - Screen printing: for multi-color markings on larger surfaces
  - Laser marking: particularly suitable for content that changes on a regular basis, e.g., serial numbers
- **Mechanical processing** of the housing parts

Further information can be found under web code #0685.