

ME MAX

ME MAX series electronics housings



Data sheet
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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.

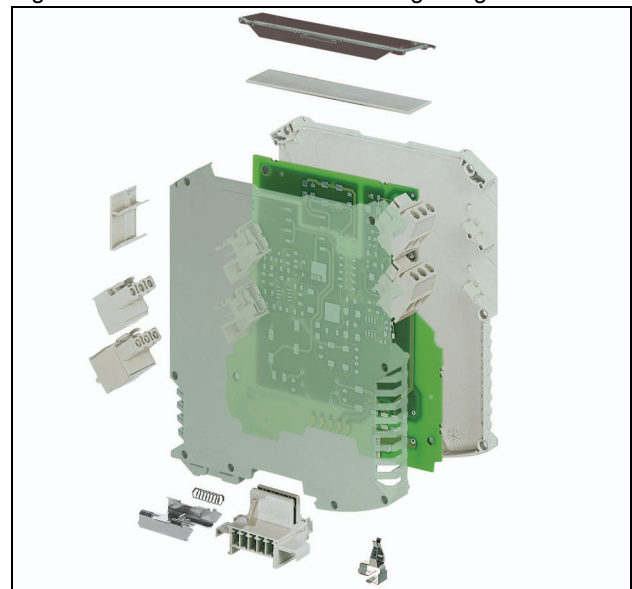
The housings are available in three different depths: 51.5 mm, 92 mm, and 114.5 mm. Various widths from 6.2 mm to 90 mm are available. The most popular dimensions are 17.5 mm and 22.5 mm.

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.

i 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.

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

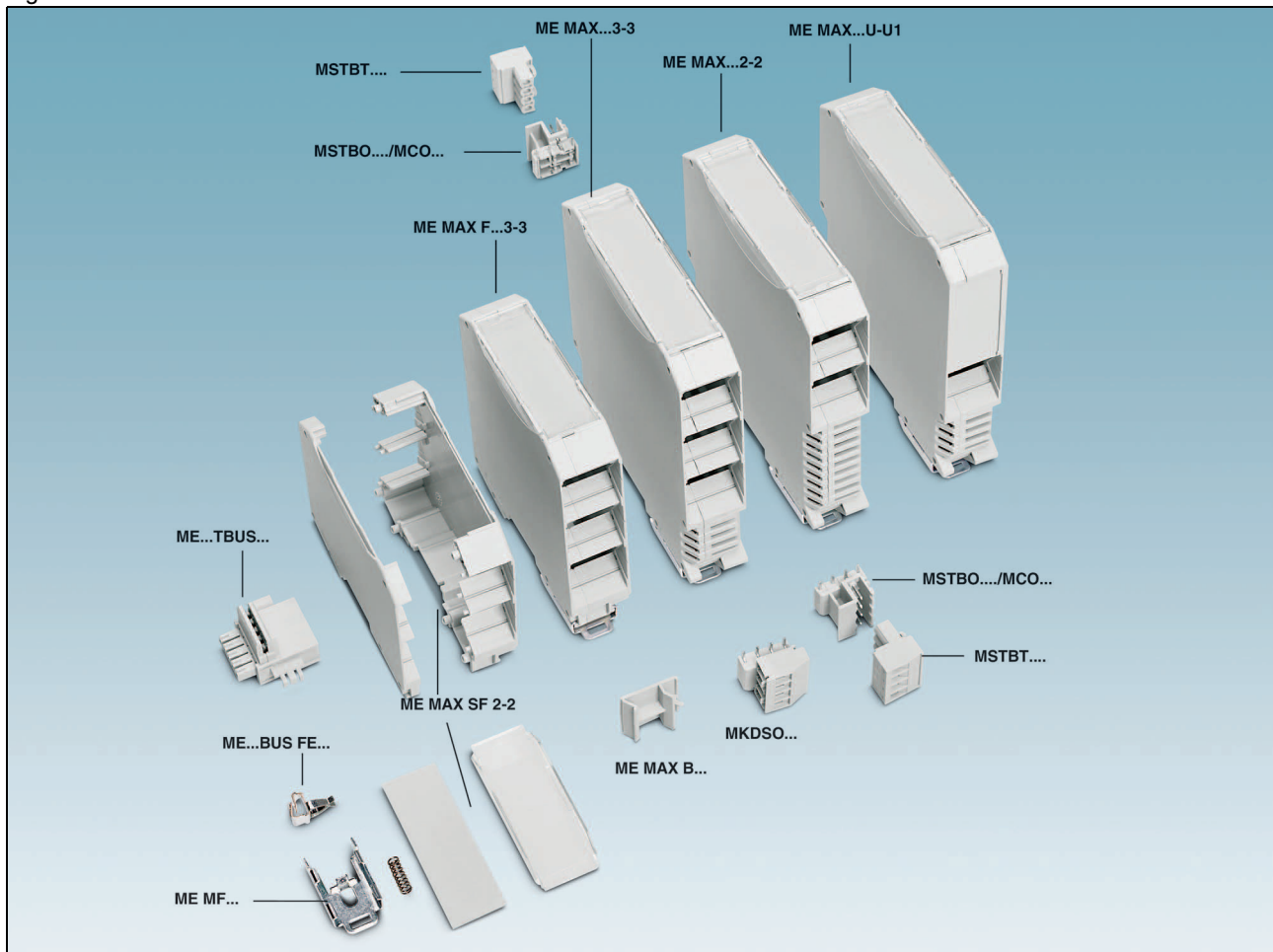
i This document is valid for the products listed in the “Ordering data” section on [page 5](#) onwards.

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2 Overview of ME MAX products


Figure 2 Overview



i 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	No abbreviation =	G = without vents	2-2 = 2 levels on both sides	BK = RAL 9005
	12.5 mm	standard (depth:	No abbreviation	3-3 = 3 levels on both sides	BU = RAL 5015
	17.5 mm	114.5 mm)	= with vents	4-4 = 4 levels on both sides	BUGY = RAL 7031
	22.5 mm	F = flat (depth:		U-U1 = one side with univer-	GN = RAL 6021
	35 mm	92 mm)		sals plate, other side with one	GNTQ = RAL 5018
	45 mm	SF = super flat (depth:		connection level and univer-	KMGY = RAL 7035
	67.5 mm	70.4 mm)		sals plate	PGBU = RAL 5014
	90 mm	LC = large cover		3-U1 = one side with three	RD = RAL 3001
		SC = screw connec-		connection levels, other side	
		tion on 4 levels		with one connection level and	
		SP = spring connec-		universal plate	
		tion on 4 levels			

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	22.5 mm	67.5 mm
	12.5 mm	35 mm	90 mm
	17.5 mm	45 mm	
Depth	70.4 mm (super flat)		
	92 mm (flat)		
	114.5 mm (standard)		
Height	ME MAX 6,2: 102.5 mm		
	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_t) must therefore be taken into account when calculating the permissible power dissipation.

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

Formula for calculating the power dissipation depending on the ambient temperature

$$P_v t_u = P_t \times K_t$$

P_v = power dissipation

t_u = ambient temperature

$t = 20^\circ\text{C}$

K_t = reduction factor

Example: power dissipation at +50°C

$$P_{50^\circ\text{C}} = P_{20^\circ\text{C}} \times K_t$$

$$P_{50^\circ\text{C}} = 10.8 \text{ W} \times 0.7 = 7.56 \text{ W}$$

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.

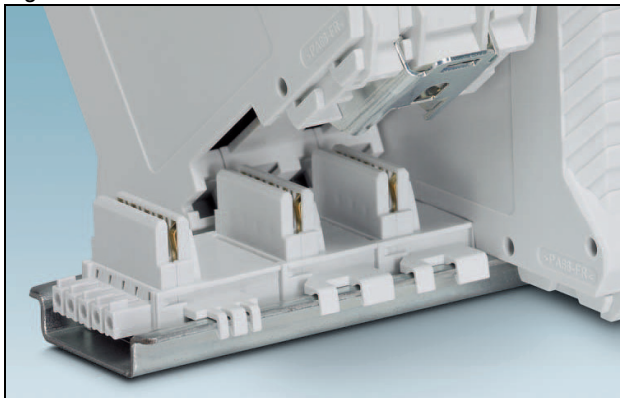
6 Bus connectors

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.

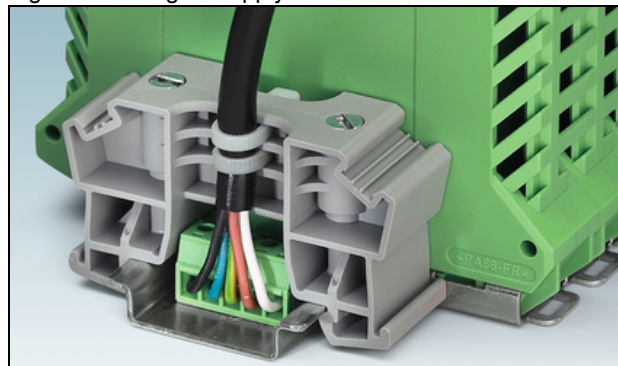
When combined with the DIN rail connector, you can change modules without interrupting the supply voltage.

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.

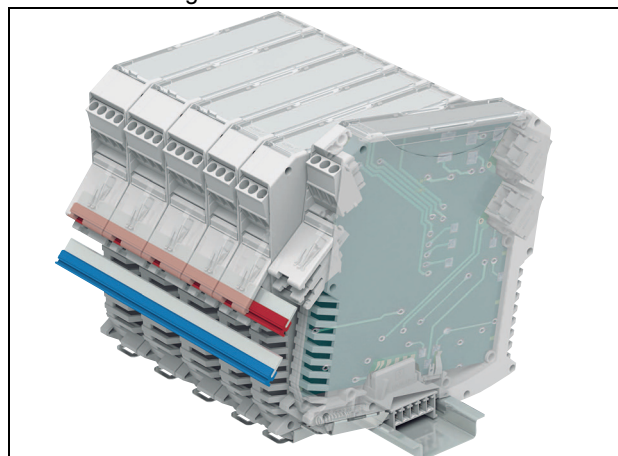
Figure 4 Signal supply with strain relief



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



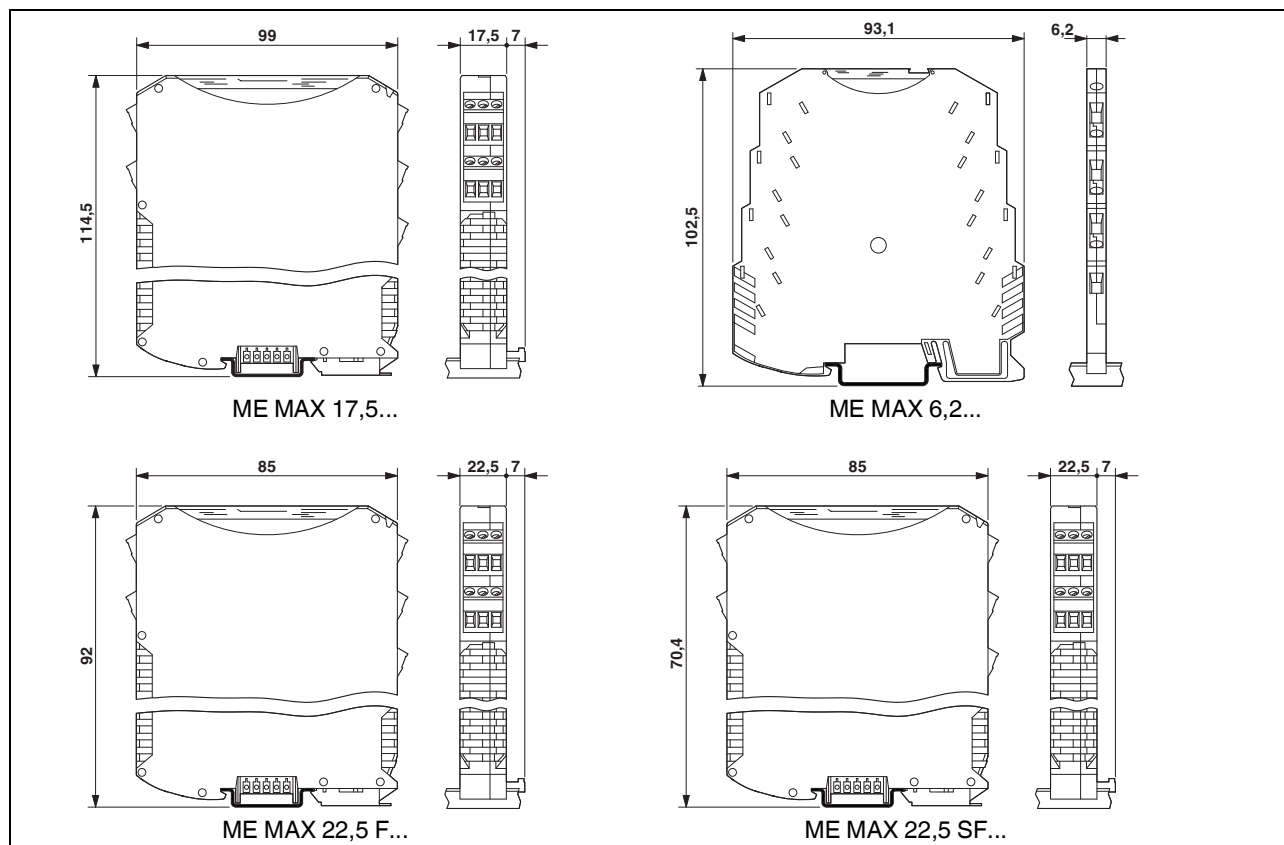
If increased power is required, you can use PCO... connectors. Power connectors are available for housings with 17.5 mm and 22.5 mm pitch. Currents up to 42 A can be supplied in conjunction with the PBR... plug-in bridge.


Do not connect or disconnect the power connector under load.

7 Housing dimensions

7.1 Outer dimensions

Figure 6 Example illustrations

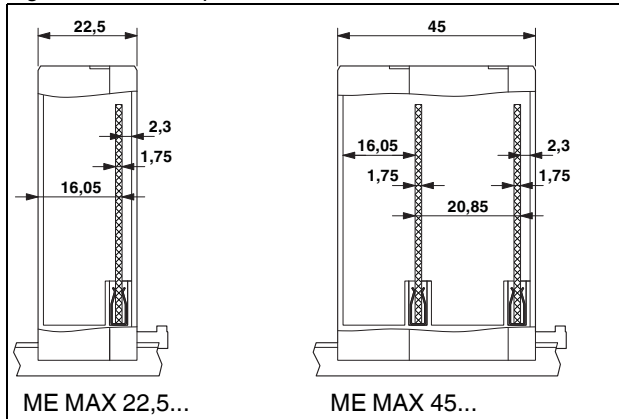



 The dimensions are available in the download area for the relevant product.

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

7.2 Inner dimensions

Figure 7 Example illustration



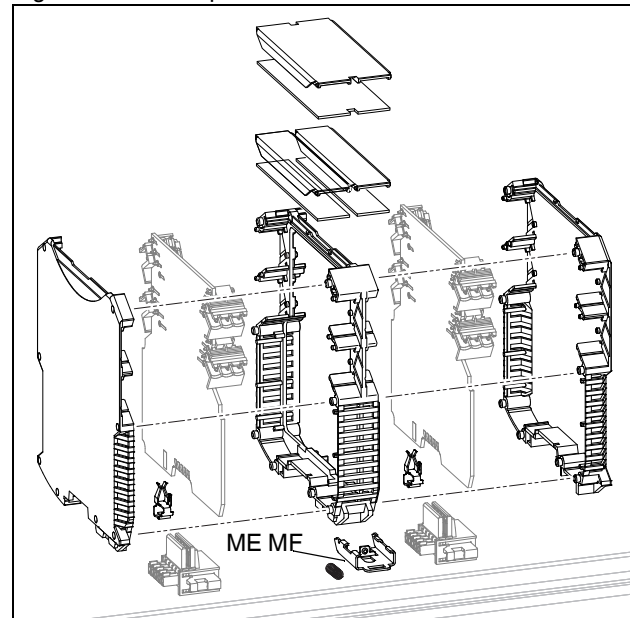
 The dimensions are available in the download area for the relevant product.

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.

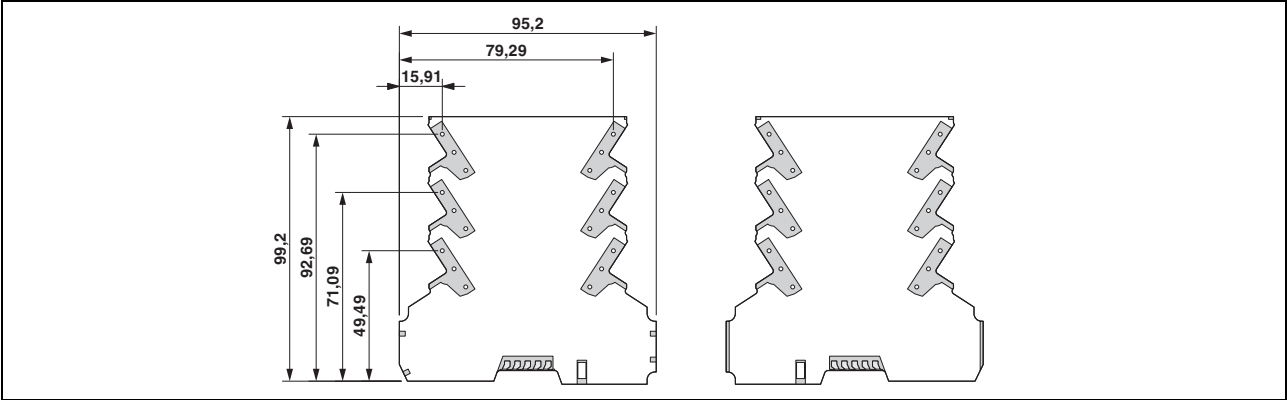
Figure 8 Example for ME MAX 35/45...



8 PCB dimensions

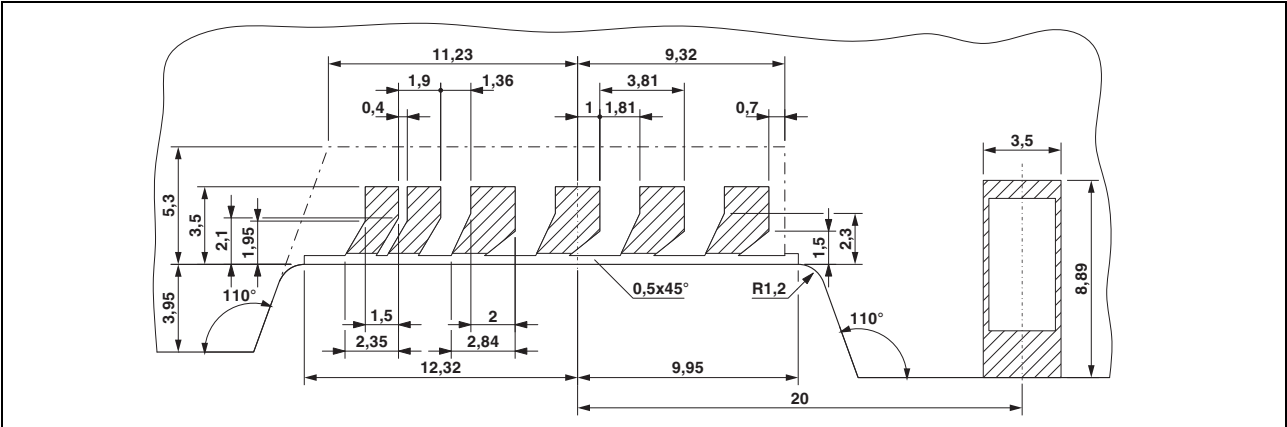
i You can configure your housing in the configurator at phoenixcontact.com, web code: #0512. You will receive 3D data, order lists, and PCB layouts.

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 posi- tions	... 3-3	Max. number of positions			... 2-2	Max. number of positions		
	Order No.			Pitch [mm]			Order No.	Pitch [mm]		
				3.5	5	7.25/ 7.5		3.5	5	7.25/ 7.5
Design: standard, depth: 114.5 mm										
ME MAX 6,2 SC...	2869634 ¹	8	-	-	-	-	-	-	-	-
ME MAX 6,2 SP...	2869647 ²		-	-	-	-	-	-	-	-
ME MAX 12,5...	-	-	2279020	18	12		-	-	-	-
ME MAX 12,5 G...	-	-	2279017				-	-	-	-
ME MAX 17,5...	-	-	2713612	27	18	12	2713599	16	12	8
ME MAX 17,5 G...	-	-	2713531				2713609			
ME MAX 35...	-	-	2713939	30	24	18	2713625	20	16	12
ME MAX 35 G...	-	-	2713942				2713638			
ME MAX 35...	-	-	2713696	54	36	24	2713670	32	24	16
ME MAX 35 G...	-	-	2713544				2713683			
ME MAX 45...	-	-	2713913	60	48	36	2713706	40	32	24
ME MAX 45 G...	-	-	2713926				2713719			
ME MAX 67,5...	-	-	2200526	90	72	54	2200524	60	48	36
ME MAX 67,5 G...	-	-	2200527				2200525			
ME MAX 90...	-	-	2200531	120	96	72	2200529	80	64	48
ME MAX 90 G...	-	-	2200532				2200530			
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				... U-U1			
	Order No.	Max. number of positions Pitch [mm]			Order No.	Max. number of positions Pitch [mm]		
		3.5	5	7.25/7.5		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...	2201536	13	12	8	2713641	4	3	2
ME MAX 17,5 G...	2201537	-	-	-	2713515	-	-	-
ME MAX 35...	2201538	20	16	12	2713476	5	4	3
ME MAX 35 G...	2201539	-	-	-	2713489	-	-	-
ME MAX 35...	-	-	-	-	2713667	8	6	4
ME MAX 35 G...	-	-	-	-	2713528	-	-	-
ME MAX 45...	2201682	40	32	24	2713492	10	8	6
ME MAX 45 G...	2201683	-	-	-	2713502	-	-	-
ME MAX 67,5...	-	-	-	-	2200547	15	12	9
ME MAX 67,5 G...	-	-	-	-	2200528	-	-	-
ME MAX 90...	-	-	-	-	2200546	20	16	12
ME MAX 90 G...	-	-	-	-	2200533	-	-	-
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		Conne- ctors	
		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...	2279020	2278319	2278322	1769061	-	-	-	-	-	
ME MAX 12,5 G...	2279017									
ME MAX 17,5...	2713612	2278364	2278377	1769074	1773578	1773594	2199867	2199760	2199757	
ME MAX 17,5 G...	2713531									
ME MAX 35...	2713939	2278380	2278351	1769087	1773581	1773604	2199663	2199566	2199553	
ME MAX 35 G...	2713942									
ME MAX 35...	2713696	2278364	2278377	1769074	1773578	1773594	2199867	2199760	2199757	
ME MAX 35 G...	2713544									
ME MAX 45...	2713913	2278380	2278351	1769087	1773581	1773604	2199663	2199566	2199553	
ME MAX 45 G...	2713926									
ME MAX 67,5...	2200526	2278380	2278351	1769087	1773581	1773604	2199663	2199566	2199553	
ME MAX 67,5 G...	2200527									
ME MAX 90...	2200531	2278380	2278351	1769087	1773581	1773604	2199663	2199566	2199553	
ME MAX 90 G...	2200532									
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...	2279020	2854788	2854791	2200330	2200331	2200251	2200252	2202346	2200334
ME MAX 12,5 G...	2279017								
ME MAX 17,5...	2713612	2853750	2853763	2200328	2200329	2915216	2915229	2202345	2200333
ME MAX 17,5 G...	2713531								
ME MAX 35...	2713939	2907774	2907787	2200325	2200326	2697194	2697204	2202344	2200332
ME MAX 35 G...	2713942								
ME MAX 35...	2713696	2853750	2853763	2200328	2200329	2915216	2915229	2202345	2200333
ME MAX 35 G...	2713544								
ME MAX 45...	2713913	2907774	2907787	2200325	2200326	2697194	2697204	2202344	2200332
ME MAX 45 G...	2713926								
ME MAX 67,5...	2200526	2907774	2907787	2200325	2200326	2697194	2697204	2202344	2200332
ME MAX 67,5 G...	2200527								
ME MAX 90...	2200531	2907774	2907787	2200325	2200326	2697194	2697204	2202344	2200332
ME MAX 90 G...	2200532								
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		Conne- ctors	
		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...	2713599	2278364	2278377	1769074	1773578	1773594	2199867	2199760	2199757	
ME MAX 17,5 G...	2713609									
ME MAX 35...	2713625	2278380	2278351	1769087	1773581	1773604	2199663	2199566	2199553	
ME MAX 35 G...	2713638									
ME MAX 35...	2713670	2278364	2278377	1769074	1773578	1773594	2199867	2199760	2199757	
ME MAX 35 G...	2713683									
ME MAX 45...	2713706	2278380	2278351	1769087	1773581	1773604	2199663	2199566	2199553	
ME MAX 45 G...	2713719									
ME MAX 67,5...	2200524	2278380	2278351	1769087	1773581	1773604	2199663	2199566	2199553	
ME MAX 67,5 G...	2200525									
ME MAX 90...	2200529	2278380	2278351	1769087	1773581	1773604	2199663	2199566	2199553	
ME MAX 90 G...	2200530									
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...	2713599	2853750	2853763	2915216	2915229	2200328	2200329	2202345	2200333
ME MAX 17,5 G...	2713609								
ME MAX 35...	2713625	2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332
ME MAX 35 G...	2713638								
ME MAX 35...	2713670	2853750	2853763	2915216	2915229	2200328	2200329	2202345	2200333
ME MAX 35 G...	2713683								
ME MAX 45...	2713706	2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332
ME MAX 45 G...	2713719								
ME MAX 67,5...	2200524	2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332
ME MAX 67,5 G...	2200525								
ME MAX 90...	2200529	2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332
ME MAX 90 G...	2200530								
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...	2713641	2278364	2278377	1769074	1773578	1773594	2200328	2200329	2202345	2200333		
ME MAX 17,5 G...	2713515											
ME MAX 35...	2713476	2278380	2278351	1769087	1773581	1773604	2200325	2200326	2202344	2200332		
ME MAX 35 G...	2713489											
ME MAX 35...	2713667	2278364	2278377	1769074	1773578	1773594	2200328	2200329	2202345	2200333		
ME MAX 35 G...	2713528											
ME MAX 45...	2713492	2278380	2278351	1769087	1773581	1773604	2200325	2200326	2202344	2200332		
ME MAX 45 G...	2713502											
ME MAX 67,5...	2200547	2278380	2278351	1769087	1773581	1773604	2200325	2200326	2202344	2200332		
ME MAX 67,5 G...	2200528											
ME MAX 90...	2200546	2278380	2278351	1769087	1773581	1773604	2200325	2200326	2202344	2200332		
ME MAX 90 G...	2200533											
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...	2713641	2853750	2853763	2915216	2915229	2200328	2200329	2202345	2200333
ME MAX 17,5 G...	2713515								
ME MAX 35...	2713476	2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332
ME MAX 35 G...	2713489								
ME MAX 35...	2713667	2853750	2853763	2915216	2915229	2200328	2200329	2202345	2200333
ME MAX 35 G...	2713528								
ME MAX 45...	2713492	2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332
ME MAX 45 G...	2713502								
ME MAX 67,5...	2200547	2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332
ME MAX 67,5 G...	2200528								
ME MAX 90...	2200546	2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332
ME MAX 90 G...	2200533								
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		Conne- ctors	
		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...	2201536	2278364	2278377	1769074	1773578	1773594	2199867	2199760	2199757	
ME MAX 17,5 G...	2201537									
ME MAX 35...	2201538	2278380	2278351	1769087	1773581	1773604	2199663	2199566	2199553	
ME MAX 35 G...	2201539									
ME MAX 35...										
ME MAX 35 G...										
ME MAX 45...	2201682	2278380	2278351	1769087	1773581	1773604	2199663	2199566	2199553	
ME MAX 45 G...	2201683									
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...	2201536	2853750	2853763	2915216	2915229	2200328	2200329	2202345	2200333
ME MAX 17,5 G...	2201537								
ME MAX 35...	2201538	2907774	2907787	2697194	2697204	-	-	-	-
ME MAX 35 G...	2201539								
ME MAX 35...	-	-	-	-	-	2200328	2200329	2202345	2200333
ME MAX 35 G...	-	-	-	-	-				
ME MAX 45...	2201682	2907774	2907787	2697194	2697204	2200325	2200326	2202344	2200332
ME MAX 45 G...	2201683								
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										
ME MAX 17,5 G...	2713531	2713609	2278432	2278429	2854102	2854092	2200318	2200317	2199676	2199773	-	-
ME MAX 35...	2713939	2713612										
ME MAX 35 G...	2713942	2713531	2278393	2278416	2908485	2908472	2200319	2200320	2890946	2890959	2201128	2201129
ME MAX 35...	2713696	2713670										
ME MAX 35 G...	2713544	2713683	2278432	2278429	2854102	2854092	2200318	2200317	2199676	2199773	-	2201129
ME MAX 45...	2713913	2713706										
ME MAX 45 G...	2713926	2713719	2278393	2278416	2908485	2908472	2200319	2200320	2890946	2890959	2201128	2201129
ME MAX 67,5...	2200526	2200524										
ME MAX 67,5 G...	2200527	2200525	2278393	2278416	2908485	2908472	2200319	2200320	2890946	2890959	2201128	2201129
ME MAX 90...	2200531	2200529										
ME MAX 90 G...	2200532	2200530	2278393	2278416	2908485	2908472	2200319	2200320	2890946	2890959	2201128	2201129
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	
	Order No.	Order No.	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	
			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...	2713641	2201536	2278432	2278429	2854102	2854092	2200318	2200317	2199676	2199773	-	-
ME MAX 17,5 G...	2713515	2201537	-	-	-	-	-	-	-	-	-	-
ME MAX 35...	2713476	2201538	2278393	2278416	2908485	2908472	2200319	2200320	2890946	2890959	2201128	2201129
ME MAX 35 G...	2713489	2201539	-	-	-	-	-	-	-	-	-	-
ME MAX 35...	2713667	-	2278432	2278429	2854102	2854092	2200318	2200317	2199676	2199773	-	2201129
ME MAX 35 G...	2713528	-	-	-	-	-	-	-	-	-	-	-
ME MAX 45...	2713492	2201682	2278393	2278416	2908485	2908472	2200319	2200320	2890946	2890959	2201128	2201129
ME MAX 45 G...	2713502	2201683	-	-	-	-	-	-	-	-	-	-
ME MAX 67,5...	2200547	-	2278393	2278416	2908485	2908472	2200319	2200320	2890946	2890959	2201128	2201129
ME MAX 67,5 G...	2200528	-	-	-	-	-	-	-	-	-	-	-
ME MAX 90...	2200546	-	2278393	2278416	2908485	2908472	2200319	2200320	2890946	2890959	2201128	2201129
ME MAX 90 G...	2200533	-	-	-	-	-	-	-	-	-	-	-
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...	2869634*	-	-	-	-	-
ME MAX 6,2 SP...	2869647**	-	-	-	-	-
ME MAX 12,5...	-	2279020	-	-	-	2914660
ME MAX 12,5 G...	-	2279017	-	-	-	-
ME MAX 17,5...	-	2713612	2713599	2713641	2201536	2706959
ME MAX 17,5 G...	-	2713531	2713609	2713515	2201537	-
ME MAX 35...	-	2713939	2713625	2713476	2201538	2707929
ME MAX 35 G...	-	2713942	2713638	2713489	2201539	-
ME MAX 35...	-	2713696	2713670	2713667	-	2706959
ME MAX 35 G...	-	2713544	2713683	2713528	-	-
ME MAX 45...	-	2713913	2713706	2713492	2201682	2707929
ME MAX 45 G...	-	2713926	2713719	2713502	2201683	-
ME MAX 67,5...	-	2200526	2200524	2200547	-	2707929
ME MAX 67,5 G...	-	2200527	2200525	2200528	-	-
ME MAX 90...	-	2200531	2200529	2200546	-	2707929
ME MAX 90 G...	-	2200532	2200530	2200533	-	-
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...	2869634 ¹	-	-	-	-	2969401 2279033 ³	-	-
ME MAX 6,2 SP...	2869647 ²	-	-	-	-	-	-	-
ME MAX 12,5...	-	2279020	-	-	-	2969401	-	-
ME MAX 12,5 G...	-	2279017	-	-	-	-	-	-
ME MAX 17,5...	-	2713612	2713599	2713641	2201536	2713645	2201731	2201757
ME MAX 17,5 G...	-	2713531	2713609	2713515	2201537	-	-	-
ME MAX 35...	-	2713939	2713625	2713476	2201538	2713722	2201732	2201756
ME MAX 35 G...	-	2713942	2713638	2713489	2201539	-	-	-
ME MAX 35...	-	2713696	2713670	2713667	-	2713645 ⁴	2201731 ⁴	2201757
ME MAX 35 G...	-	2713544	2713683	2713528	-	-	-	-
ME MAX 45...	-	2713913	2713706	2713492	2201682	2713722 ⁴	2201732 ⁴	2201756
ME MAX 45 G...	-	2713926	2713719	2713502	2201683	-	-	-
ME MAX 67,5...	-	2200526	2200524	2200547	-	2713722 ⁴	2201732 ⁴	2201756
ME MAX 67,5 G...	-	2200527	2200525	2200528	-	-	-	-
ME MAX 90...	-	2200531	2200529	2200546	-	2713722 ⁴	2201732 ⁴	2201756
ME MAX 90 G...	-	2200532	2200530	2200533	-	-	-	-
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			
	Order No.				PCO...-L ¹	PBR 42A RD	PBR 42A BU	PBR 42A GY
					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...	2279020	-	-	-	-	-	-	-
ME MAX 12,5 G...	2279017	-	-	-	-	-	-	-
ME MAX 17,5...	2713612	2713599	2713641	2201536	2201684	2201915	2201916	2201917
ME MAX 17,5 G...	2713531	2713609	2713515	2201537	2201684	2201915	2201916	2201917
ME MAX 35...	2713939	2713625	2713476	2201538	2201685	2201915	2201916	2201917
ME MAX 35 G...	2713942	2713638	2713489	2201539	2201685	2201915	2201916	2201917
ME MAX 35...	2713696	2713670	2713667	-	2201684	2201915	2201916	2201917
ME MAX 35 G...	2713544	2713683	2713528	-	2201684	2201915	2201916	2201917
ME MAX 45...	2713913	2713706	2713492	2201682	2201685	2201915	2201916	2201917
ME MAX 45 G...	2713926	2713719	2713502	2201683	2201685	2201915	2201916	2201917
ME MAX 67,5...	2200526	2200524	2200547	-	2201685	2201915	2201916	2201917
ME MAX 67,5 G...	2200527	2200525	2200528	-	2201685	2201915	2201916	2201917
ME MAX 90...	2200531	2200529	2200546	-	2201685	2201915	2201916	2201917
ME MAX 90 G...	2200532	2200530	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

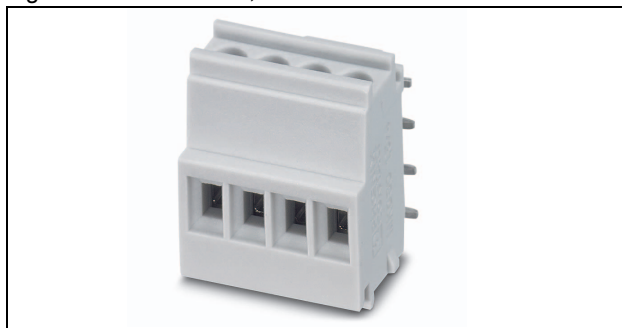
10 Connection technology – Technical data


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

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 mm ²
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

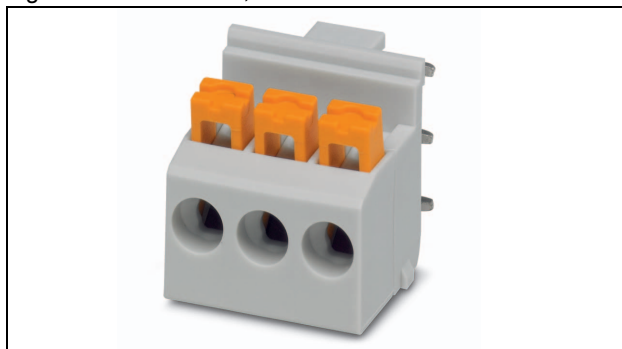
Conductor cross section


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

10.1.3 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 mm ²
Insulation material	PA
Flammability rating UL 94	V0
Stripping length	10 mm

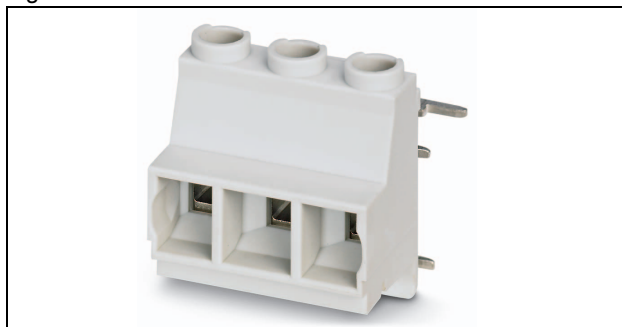
Conductor cross section


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

10.1.4 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

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

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

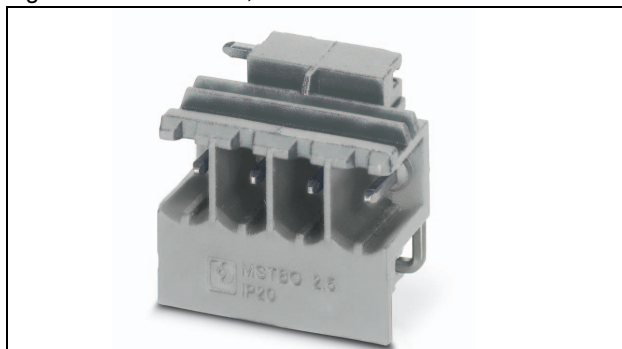
Product		Dimension a	No. of pos.
MSTBO 2,5/ 2-G1L KMGY	2854788	5	2
MSTBO 2,5/ 2-G1R KMGY	2854791	5	2
MSTBO 2,5/ 3-G1L KMGY	2853750	10	3
MSTBO 2,5/ 3-G1R KMGY	2853763	10	3
MSTBO 2,5/ 4-G1L KMGY	2907774	15	4
MSTBO 2,5/ 4-G1R KMGY	2907787	15	4

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

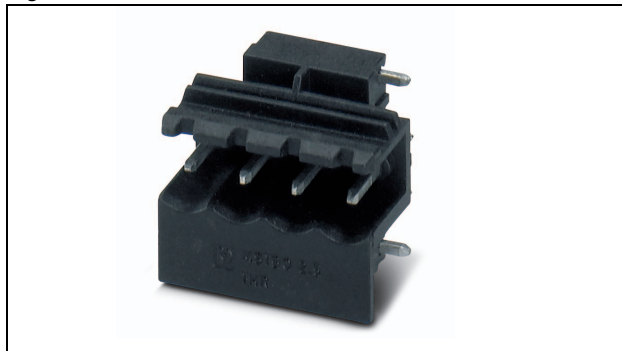
Product		Dimension a	No. of pos.
MSTBO 2,5/ 2-G1PL GY7035	2200330	5	2
MSTBO 2,5/ 2-G1PR GY7035	2200331	5	2
MSTBO 2,5/ 3-G1PL GY7035	2200328	10	3
MSTBO 2,5/ 3-G1PR GY7035	2200329	10	3
MSTBO 2,5/ 4-G1PL GY7035	2200325	15	4
MSTBO 2,5/ 4-G1PR GY7035	2200326	15	4

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

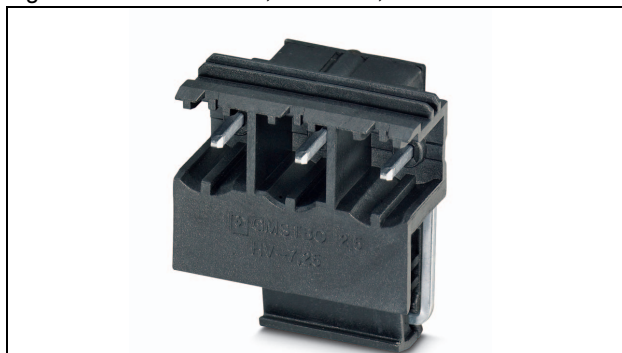
Technical data

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

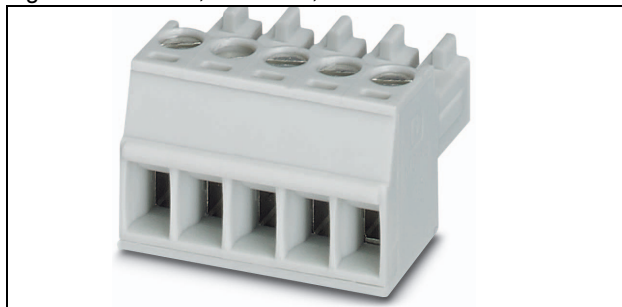
Product		Dimension a	No. of pos.
GMSTBO 2,5 HV/2-GL-7,25 THR	2199867	7.25	2
GMSTBO 2,5 HV/2-GR-7,25 THR	2199760	7.25	2
GMSTBO 2,5 HV/3-GL-7,25 THR	2199663	14.5	3
GMSTBO 2,5 HV/3-GR-7,25 THR	2199566	14.5	3

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

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

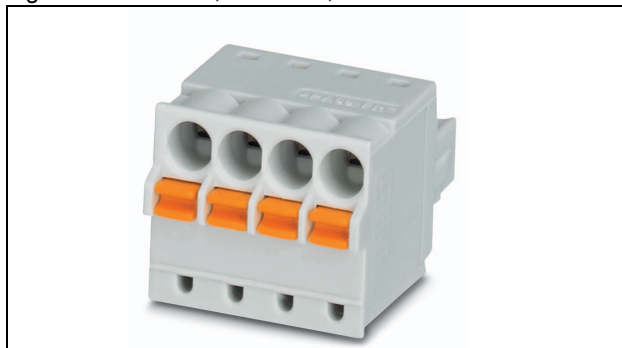
Insulation material group	PA / I
Rated surge voltage (III/3)	2.5 kV
Rated surge voltage (III/2)	2.5 kV
Rated surge voltage (II/2)	2.5 kV
Rated voltage (III/3)	160 V
Rated voltage (III/2)	160 V
Rated voltage (II/2)	320 V
Connection in acc. with standard	EN-VDE
Nominal current I_N	8 A
Nominal cross section	1.5 mm ²
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 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 1.5 mm ²
Conductor cross section AWG	28 ... 16
2 conductors with the same cross section rigid	0.08 mm ² ... 0.5 mm ²
2 conductors with the same cross section flexible	0.08 mm ² ... 0.75 mm ²
2 conductors with the same cross section flexible with ferrule without plastic sleeve	0.25 mm ² ... 0.34 mm ²
2 conductors with the same cross section flexible with TWIN ferrule and plastic sleeve	0.5 mm ² ... 0.5 mm ²

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

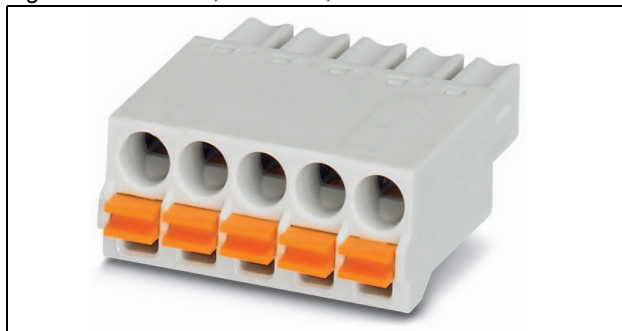
Insulation material group	PA / I
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/3)	160 V
Connection in acc. with standard	EN-VDE
Nominal current I_N	8 A
Nominal cross section	1.5 mm ²
Insulation material	PA
Flammability rating UL 94	V0


Conductor cross section

Conductor cross section rigid	0.14 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 1.5 mm ²
Conductor cross section AWG	28 ... 16
Conductor cross section flexible with ferrule without plastic sleeve	0.25 mm ² ... 1.5 mm ²
Conductor cross section flexible with ferrule and plastic sleeve	0.25 mm ² ... 0.5 mm ²

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

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

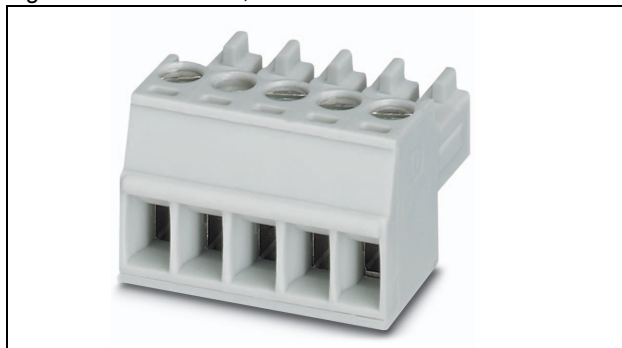
Insulation material group	PA / I
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/3)	160 V
Connection in acc. with standard	EN-VDE
Nominal current I_N	8 A
Nominal cross section	1.5 mm ²
Insulation material	PA
Flammability rating UL 94	V0


Conductor cross section

Conductor cross section rigid	0.2 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.2 mm ² ... 1.5 mm ²
Conductor cross section AWG	24 ... 16
Conductor cross section flexible with ferrule without plastic sleeve	0.25 mm ² ... 1.5 mm ²
Conductor cross section flexible with ferrule and plastic sleeve	0.25 mm ² ... 0.75 mm ²

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

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

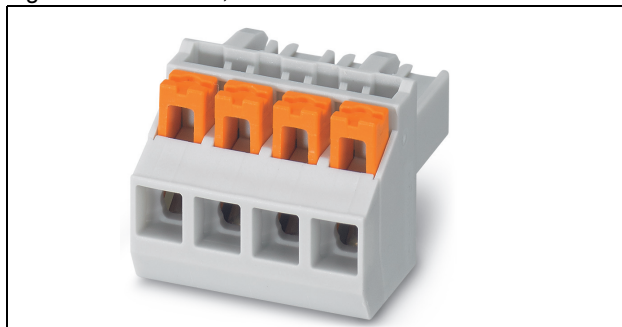
Insulation material group	PA / I
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2)	4 kV
Rated voltage (III/3)	250 V
Rated voltage (III/2)	320 V
Rated voltage (II/2)	630 V
Connection in acc. with standard	EN-VDE
Nominal current I_N	16 A
Maximum load current, 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

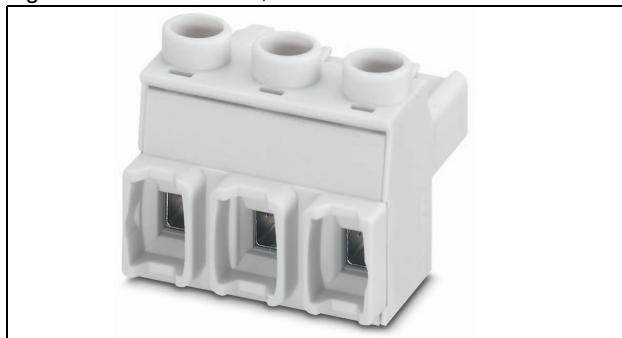
Insulation material group	PA / I
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2)	4 kV
Rated voltage (III/2)	300 V
Rated voltage (II/2)	600 V
Connection in acc. with standard	EN-VDE
Nominal current I_N	16 A
Nominal cross section	2.5 mm ²
Insulation material	PA
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 ... 16
Conductor cross section flexible with ferrule without plastic sleeve	0.20 mm ² ... 2.5 mm ²
Conductor cross section flexible with ferrule and plastic sleeve	0.25 mm ² ... 2.5 mm ²
2 conductors with the same cross section flexible with ferrule without plastic sleeve	0.25 mm ² ... 0.34 mm ²
2 conductors with the same cross section flexible with TWIN ferrule and plastic sleeve	0.5 mm ² ... 1.5 mm ²

10.3.6 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

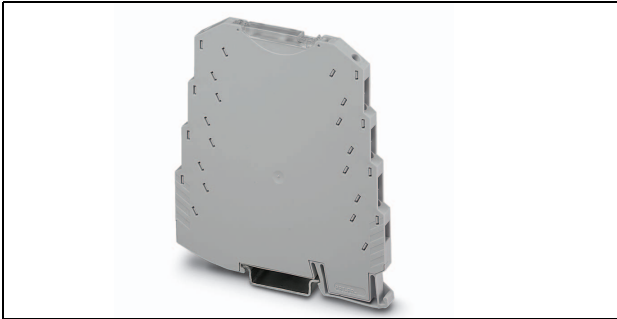
Insulation material group	I
Rated surge voltage (III/3)	8 kV
Rated surge voltage (III/2)	8 kV
Rated surge voltage (II/2)	8 kV
Rated voltage (III/3)	1000 V
Rated voltage (III/2)	1000 V
Rated voltage (II/2)	1000 V
Connection in acc. with standard	EN-VDE
Nominal current I_N	16 A
Nominal cross section	2.5 mm ²
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 mm ² ... 1.0 mm ²
Conductor cross section flexible	0.2 mm ² ... 1.5 mm ²
Conductor cross section AWG	24 ... 12
2 conductors with the same cross section rigid	0.1 mm ² ... 1.0 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 ... 2.5 mm ²
2 conductors with the same cross section flexible with ferrule and plastic sleeve	0.25 mm ² ... 2.5 mm ²
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

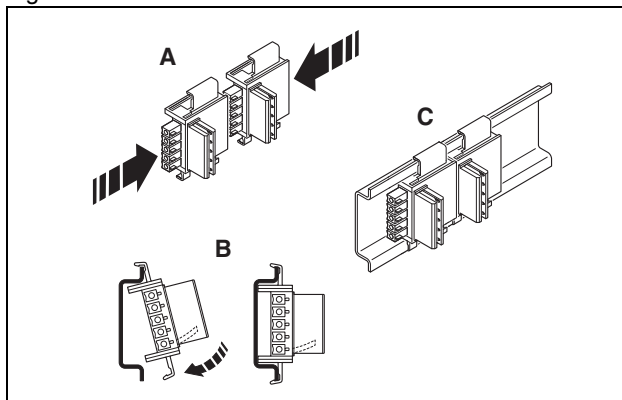
11.1 Mounting the DIN rail connector

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.

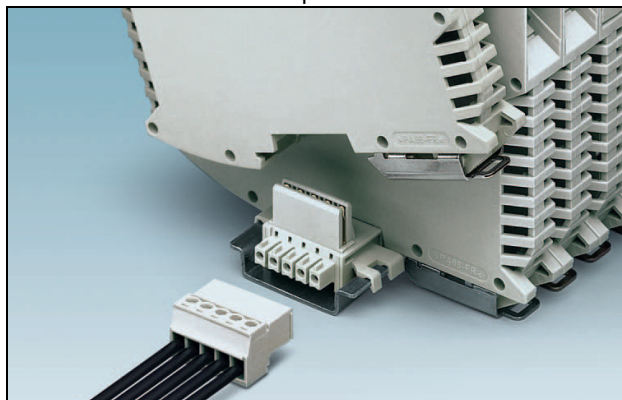
Figure 28 DIN rail connectors



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.

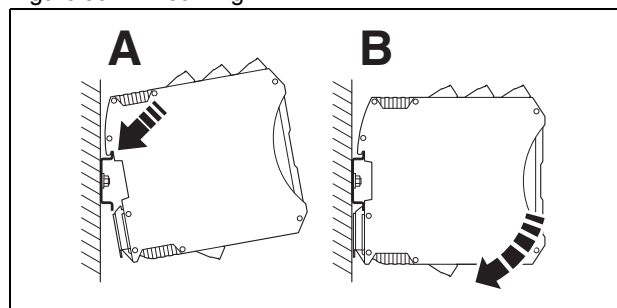
Figure 29 Tilting the ME MAX... housing onto the DIN rail connector with power connector



11.2 Mounting the housing on a DIN rail

Mounting

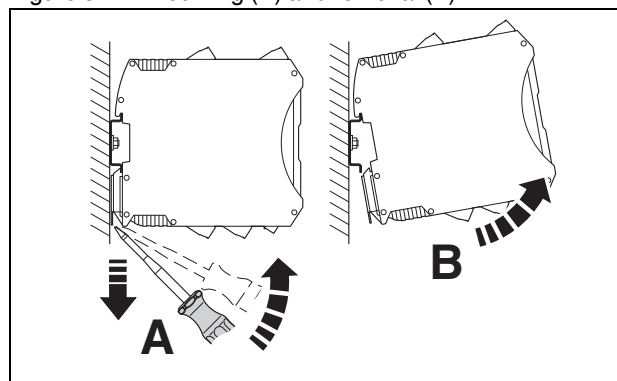
Figure 30 Mounting



- 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

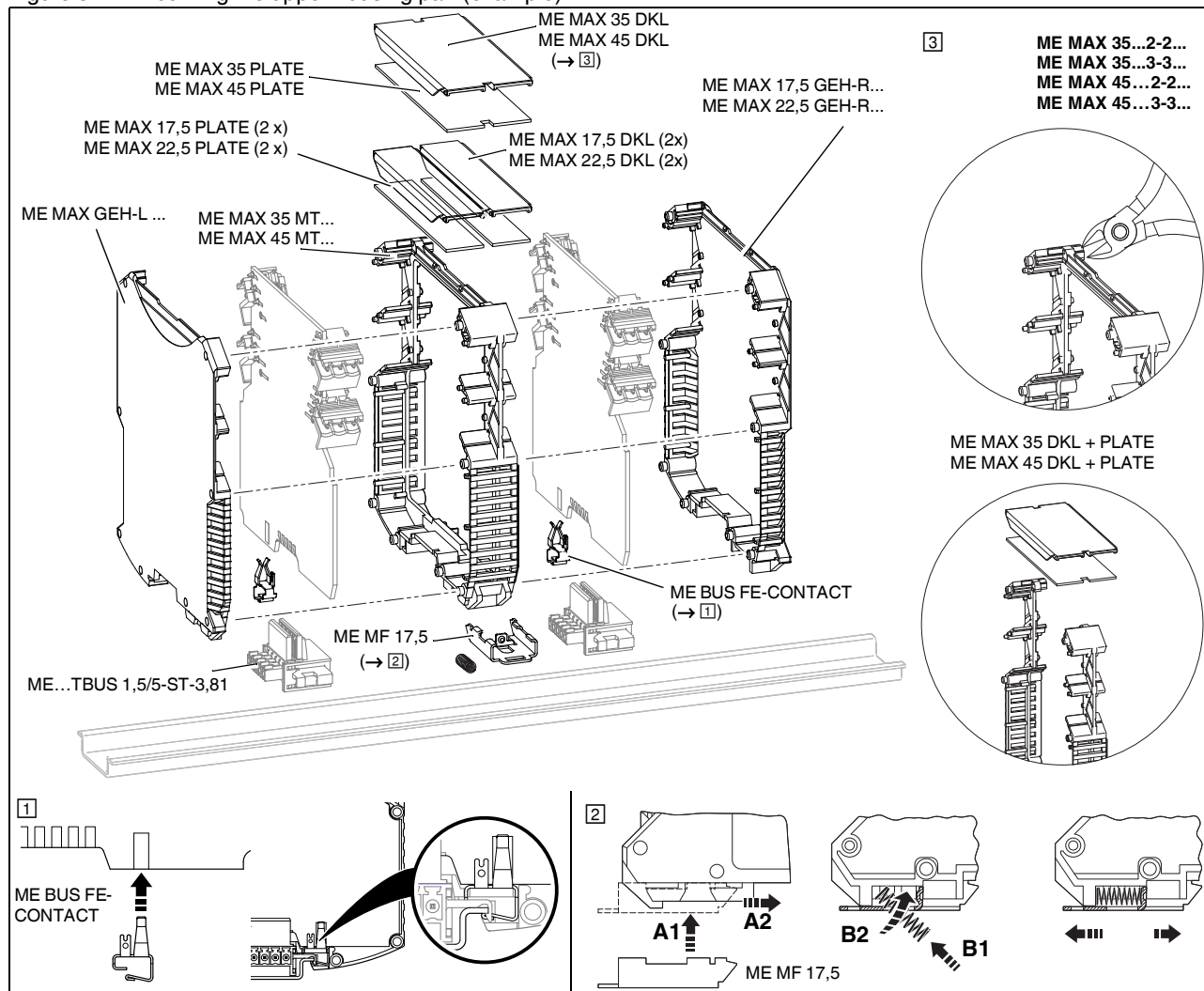
Figure 31 Mounting (A) and removal (B)



- 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

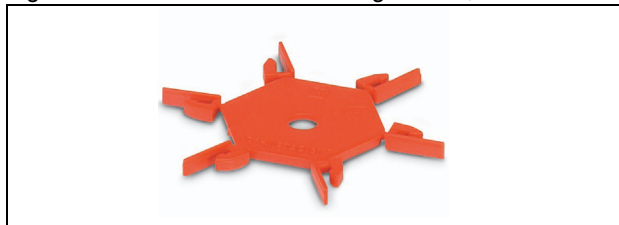
Figure 35 ME BUS FE CONTACT, 2278076



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) does 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

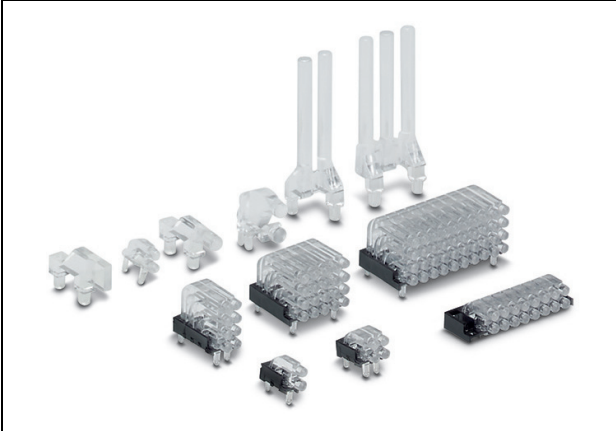
Figure 38 ME MAX TBUS BS KMGY, 2199650



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

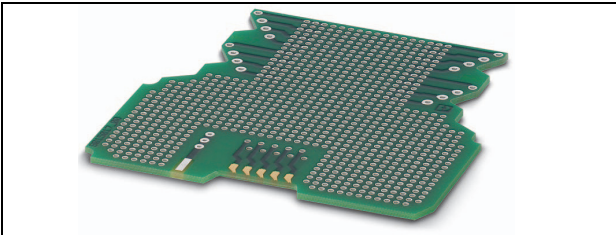


Light guides for visualization are available in a variety of designs. HS LC... light guides are fixed to the PCB.

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.