onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

PHOENIX CONTACT
INNOVATION IN INTERFACE

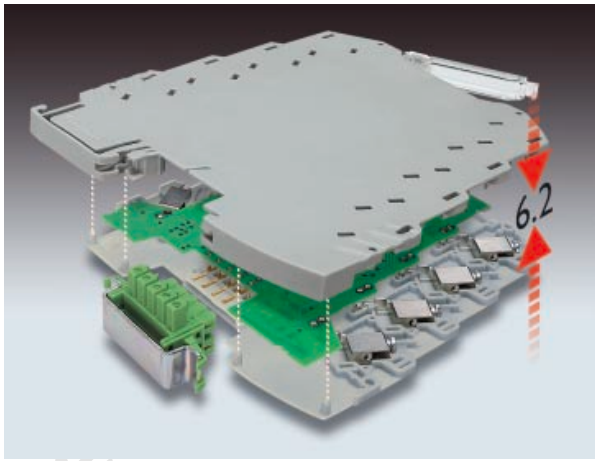
Electronic housings ME MAX 6,2...
for applications in miniature electronics

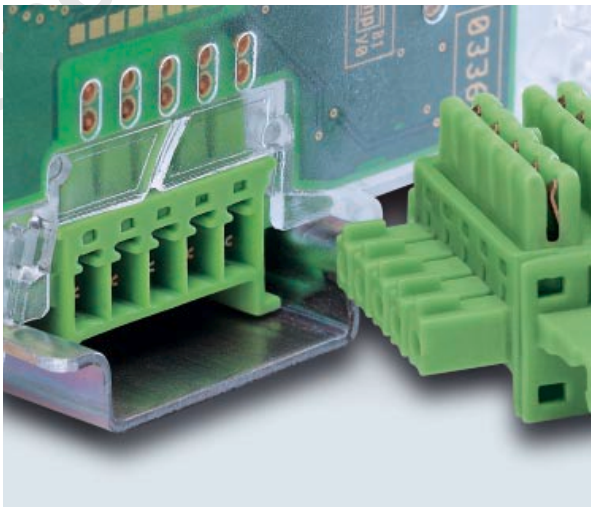
1. Description

The new ME MAX 6,2 electronic housings from Phoenix Contact make it possible to realize individual and space-saving electronics components with a width of 6.2 mm.

The connection system is firmly integrated in the housing, making it ready to take the components. Eight connections with a cross section of up to 2.5 mm² are available over four levels. These are available either as SCrew connection (SC) or in SPring-cage technology (SP).

The ME MAX 6,2 housing supports economic large-scale serial production of state-of-the-art electronics modules.





The benefits at a glance:

- 6 mm "narrow" symmetrical housingl
- A choice of spring-cage or screw connection system 2.5 mm²
- Eight connections, firmly integrated over four levels
- Same PCB geometry for spring-cage and screw versions
- Practical wiring thanks to good accessibility of the terminal points
- Fast installation using the snap on solution
- Housing can be laser marked with conventional laser systems
- Simple device testing with integrated test openings
- The transparent front cover can be swung open, is reversible and can be labeled
- IP20 shock protection
- Material listed in acc. with inflammability class V0 (UL 94)
- Comprehensive marking accessories.

Simple through contacting

The DIN rail bus connectors are simply pushed into the DIN rail and snapped together. All signals contact automatically when the housing is snapped on. When the device is removed from the whole, the contact chain is not interrupted.

PHOENIX CONTACT GmbH & Co. KG • 32823 Blomberg, Germany
Phone +49 52 35 3-00 • Fax +49 52 35 3-4 12 00 • www.phoenixcontact.com
Local Contact: www.phoenixcontact.com/salesnetwork

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

2. Technical Data

Dimensional drawing ME MAX 6,2…

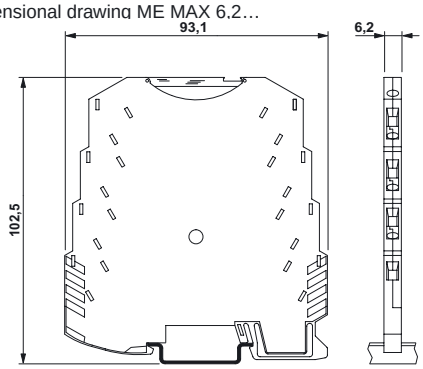


Fig. 03

Fig. 04

For further data (2D/3D), see:
select.phoenixcontact.com/combicon

Type of electronic housings/insulation materials:
Polybutylene terephthalate (PBT)
Inflammability class V0 (UL 94)

ME MAX 6,2…

6.2 mm wide, 8-pos.

(IEC) [mm²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
Connection data					
Screw SC	0.2-2.5	0.2-2.5	26-12	8	250
Spring SP	0.2-2.5	0.2-2.5	24-12	8	250

The rated cross section refers to untreated conductors without ferrules.

Description	Type	Order No.	Pcs. Pkt.
Electronic housing, 6.2 mm wide, 8-pos. with screw connection	**ME MAX 6,2 SC 4-4 KMGY**	**27 13 09 4**	10
Electronic housing, as above, however with spring-cage connection	**ME MAX 6,2 SP 4-4 KMGY**	**27 13 10 4**	10
Zack marker strip, unprinted, 10-section, for individual labeling with X-PEN or ZBF-T QR	**ZBF 6: UNBEDRUCKT**	**08 08 71 0**	10
Marker pen, for manual labeling of markers, labeling extremely wipe-proof and waterproof, line thickness 0.35 mm	**X-PEN 0,35**	**08 11 22 8**	1
Marking foil for ribbon Zack marker strip, for individual labeling with thermal transfer printer, 1 roll = 1000 labels, length of strip: 101 mm, height of strip: 4.2 mm, For further technical data, see CLIPLINE catalog	**ZBF-T QR**	**08 11 15 0**	1
Screwdriver, similar to DIN 5264, size: 0.6 x 3.5 mm	**SZF 1-0,6 x 3,5**	**12 04 51 7**	10

Stripping length		
SCrew SC	[mm]	12
SPring SP	[mm]	8
Torque	[Nm]	0.5 - 0.6

onlinecomponents.com

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

2. Technical Data

Dimensional drawing ME MAX 6,2…

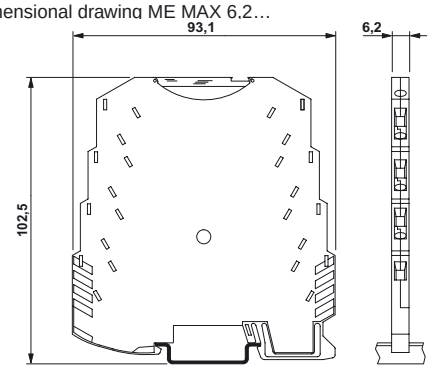


Fig. 05

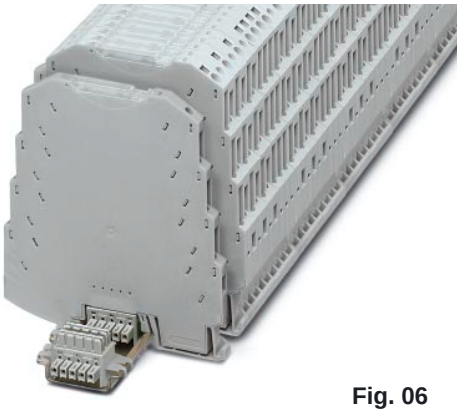


Fig. 06

For further data (2D/3D), see:
select.phoenixcontact.com/combicon

Type of electronic housings/insulation materials:
Polybutylene terephthalate (PBT)
Inflammability class V0 (UL 94)

ME MAX 6,2…TBUS

6.2 mm wide, 8-pos.

(IEC) [mm²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
Connection data					
Screw SC	0.2-2.5	0.2-2.5	26-12	8	250
Spring SP	0.2-2.5	0.2-2.5	24-12	8	250

The rated cross section refers to untreated conductors without ferrules.

Description	Type	Order No.	Pcs. Pkt.
Electronic housing, 6.2 mm wide, 8-pos. with screw connection for DIN rail bus connector	**ME MAX 6,2 SC-TBUS 4-4 KMGY**	**28 69 63 4**	10
Electronic housing, as above, however with spring-cage connection	**ME MAX 6,2 SP-TBUS 4-4 KMGY**	**28 69 64 7**	10
DIN rail bus connector, 2 x 5-pos.	**ME 6,2 TBUS-2 1,5/5-ST-3,81 KMGY**	**29 69 40 1**	10
Zack marker strip, unprinted, 10-section, for individual labeling with X-PEN or ZBF-T QR	**ZBF 6: UNBEDRUCKT**	**08 08 71 0**	10
Marker pen, for manual labeling of markers, labeling extremely wipe-proof and waterproof, line thickness 0.35 mm	**X-PEN 0,35**	**08 11 22 8**	1
Marking foil for ribbon Zack marker strip, for individual labeling with thermal transfer printer, 1 roll = 1000 labels, length of strip: 101 mm, height of strip: 4.2 mm, For further technical data, see CLIPLINE catalog	**ZBF-T QR**	**08 11 15 0**	1
Screwdriver, similar to DIN 5264, size: 0.6 x 3.5 mm	**SZF 1-0,6 x 3,5**	**12 04 51 7**	10

Stripping length		
SCrew SC	[mm]	12
SPring SP	[mm]	8
Torque	[Nm]	0.5 - 0.6

onlinecomponents.com

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

3. The production process - Just three stages for one device

1. Reflow solder PCB with SMD components.

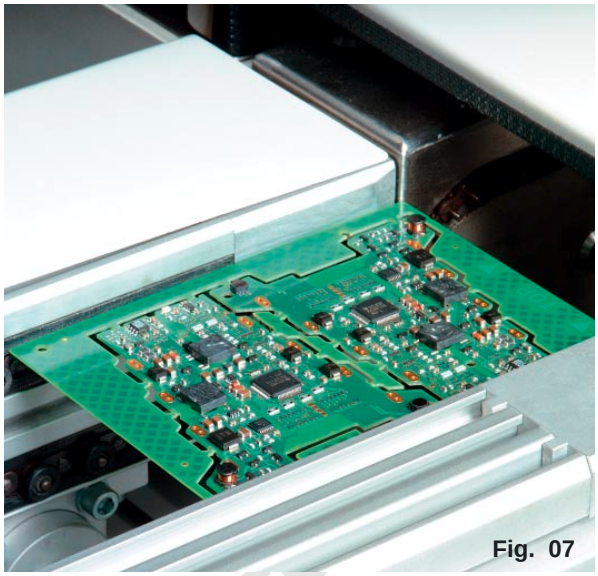


Fig. 07

2. Attach the PCB to the first half of the housing.

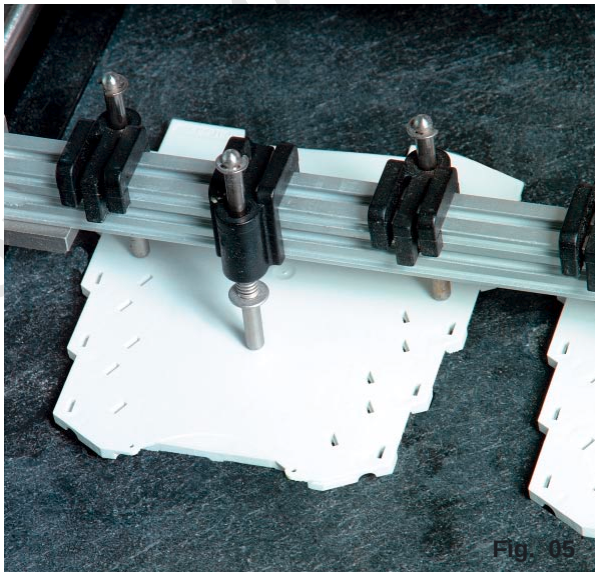


Fig. 05

3. Snap on the other half of the housing – Ready.

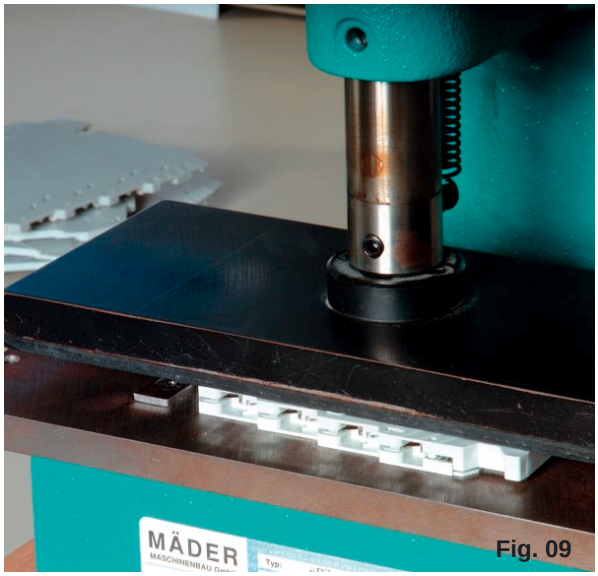


Fig. 09

onlinecomponents.com

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

4. Overview of the PCBs for the electronic housings ME MAX 6,2...

Dimensional drawing of the printed circuit board ME MAX 6,2...
for both connection types (SC + SP)
View: Component side

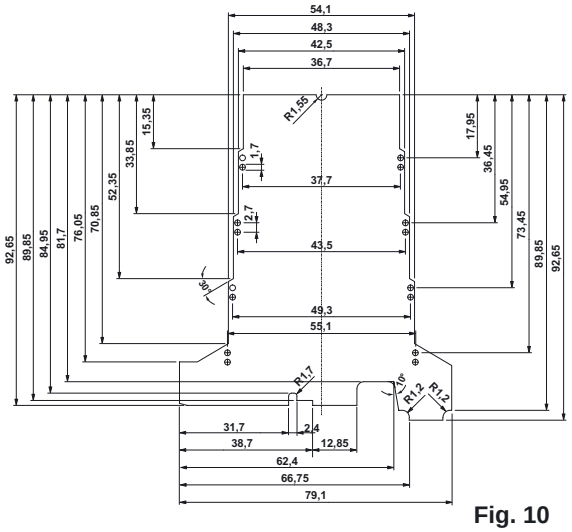


Fig. 10

Dim. drawing of the printed circuit board ME MAX 6,2 TBUS...
for both connection types (SC + SP)
View: Component side

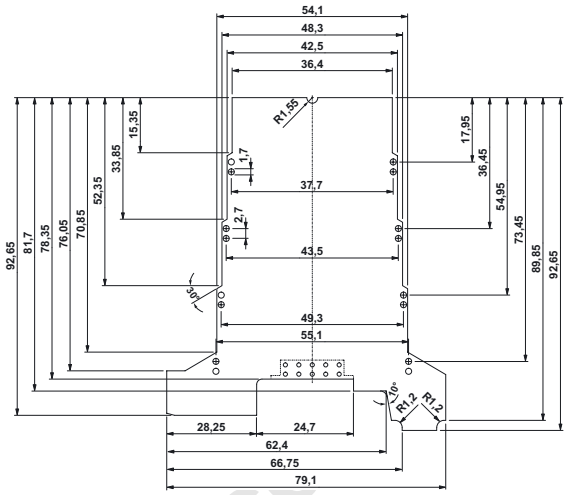


Fig. 11

Dimensional drawing ME 6,2 TBUS-2 1,5/5-3,81

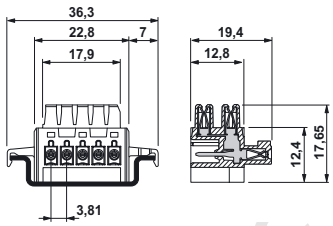


Fig. 12

Position of the PCB

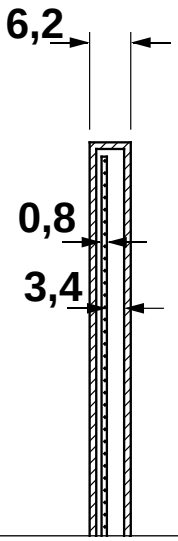


Fig. 13

Detailed dimensional drawing of the DIN rail bus connector soldering pads
Note:
PCB thickness d = 0.5 - 0.95 mm

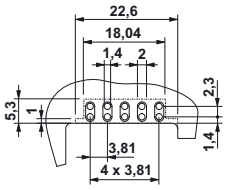


Fig. 14

© PHOENIX CONTACT 30.03.04 TNR:102096-00-en http://www.phoenixcontact.com