

COMBICON housing

Component housing

Phoenix Contact component housings make the assembled PCB a shock and dust-proof electronics module. They are installed quickly and reliably on a common 35 mm DIN rail. Apart from a few exceptions, the connecting terminal blocks can be fitted and machine-soldered during PCB assembly.

Panel mounting base and mounting plates

The panel mounting bases consist of modularly assembled components forming a rail-mountable chassis to accommodate a PCB. The surface of the PCB is thus freely accessible and particularly suitable for large operating elements or connectors. If a device cannot be installed on the standard DIN rail directly, mounting plates by Phoenix Contact are available for adaptation.

Customer-specific solutions

Tailor-made housings with customized connection methods, with screw, spring-cage or fast connection are not a problem for Phoenix Contact. We will develop and produce your special housing solution to your particular design specifications. From modifying a standard product down to a completely new development – we provide competent support throughout.

Your tailor-made solution

Component housing

EMG system component housing

EFG single component housing

BC installation component housing

UEG / UEGM / UEG-EU / UEGH universal component housing

EG beaker-type component housing

ME / ME BUS / ME TBUS modular component housing

ME MAX modular component housing

STTCO modular terminal blocks component housing

CM compact component housing

Panel mounting base

UM profile panel mounting base

UMK plug-in module panel mounting base

UM plug-in module panel mounting base

UTA / EM-MP / SISM DIN rail adapter

Your tailor-made solution

Customer-specific new developments

Do you need a special housing, designed according to your requirements?

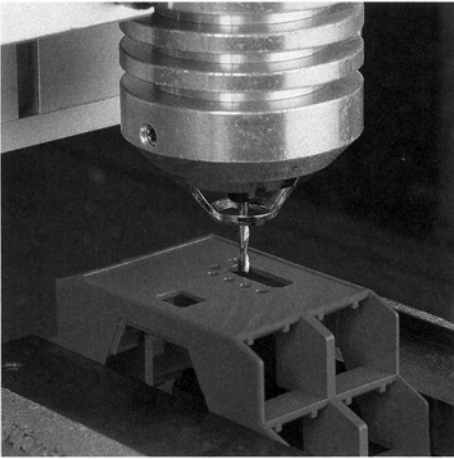
We can offer you the know-how of an experienced housing specialist and support you through all the necessary steps, from the first draft through to serial production.

Opt for us as partners in development. The sooner the better. Basic requirements for the necessary housing can be seen as early on as in the PCB layout design phase.

Naturally, various connection methods are available for integration into your new product. Screw, spring-cage or fast connections - the choice is yours.

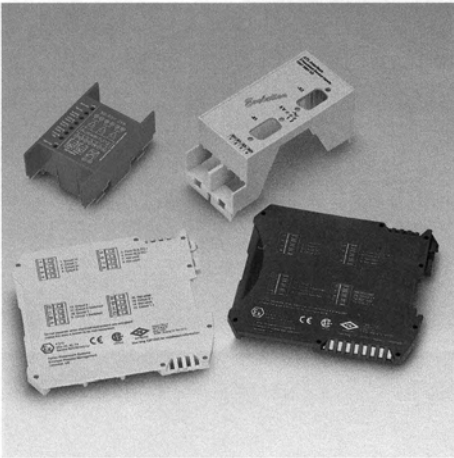
A sophisticated and innovative housing thus transforms your electronic components into the perfect product to suit the market.





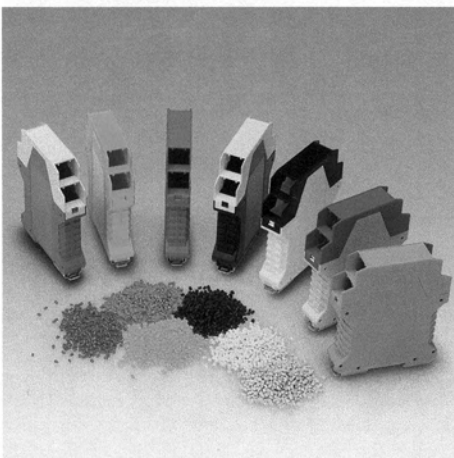
Mechanically processed electronic housings

We can bore, mill or punch the necessary openings for connection systems, displays and operating elements. User advantages: no risk of waste as could be if you processed it yourself. Give us your dimensional drawings and the number of pieces of the product required and we will submit you an offer.



Labeling and printing the electronic housings

Often, a very complex function, which needs to be explained, is integrated into the electronic housings. Phoenix Contact provides you with an option of printing or labeling the housing or housing parts according to your specifications.



Electronic housings in other colors and color combinations

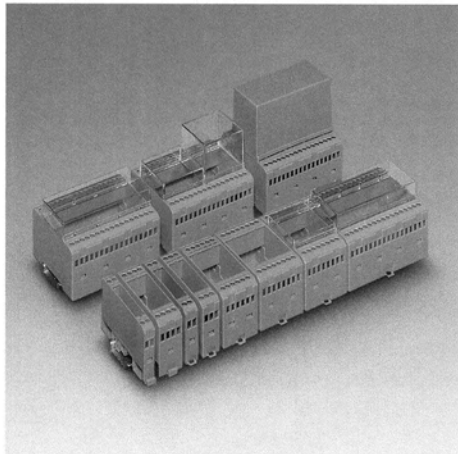
Electronic housings can also be produced in colors other than the standard color, either complete or as a combination of different colored housing parts. Please specify your personal choice of color (e.g. in accordance with RAL color standard) and the estimated number of pieces required per calendar year.

COMBICON housing

Component housings

EMG system component housing

EMG is the term used for a complete range of component housings used for economic design of industrial electronic components to suit control cabinet requirements. Both small interface circuits and complete control units can be installed.

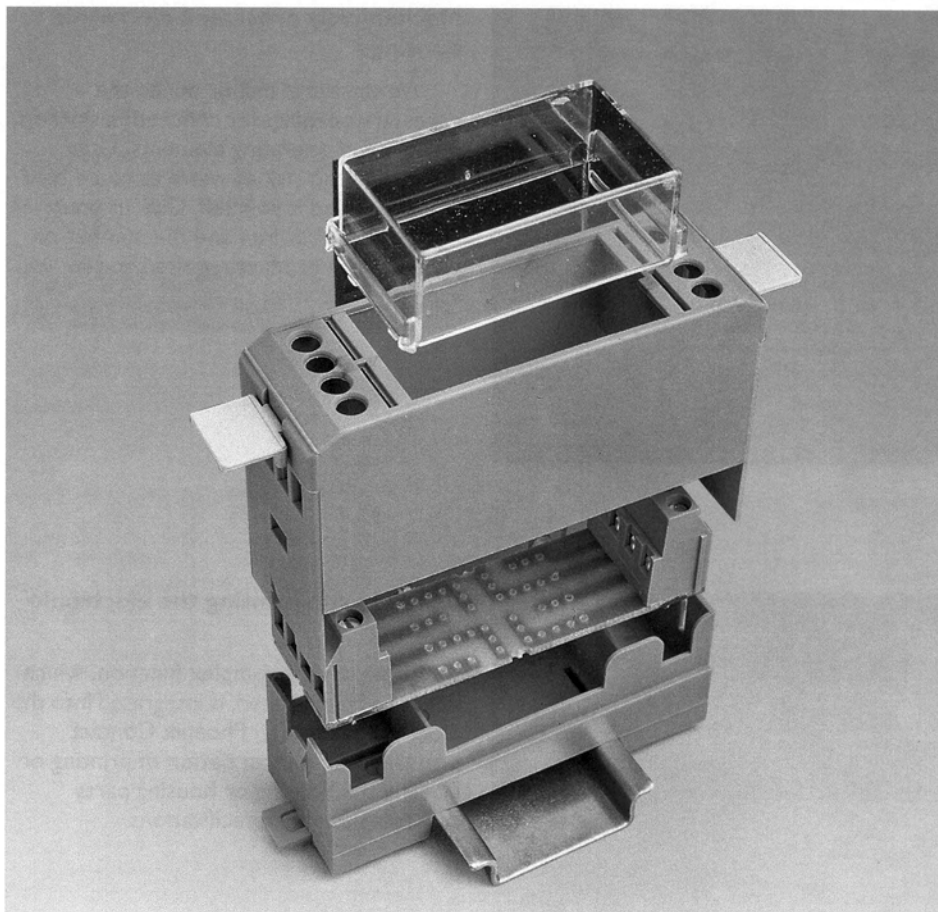


The features of the EMG housings are:

- A uniform and well-designed housing technology
- Optimum space-saving accommodation of electronic components in finely graded module versions available in a pitch of 10 to 150 mm
- Practical and easy-to-wire conductor connections using sturdy screw terminal blocks, flat connectors or COMBICON connection
- Insulating material with the V0 inflammability class (in accordance with UL 94)
- High degree of flexibility due to the wide choice of versions
- Convenient and reliable mounting on DIN rails in accordance with EN 60 715
- Shock and dust-proof accommodation of electronic components
- Choice between three or four cover sizes in transparent or colored design
- Universal PCBs for all pitches.

Construction principle

The picture on the upper right shows the principle of the EMG construction: The assembled PCB is inserted into the upper section of the housing and subsequently engaged with the housing base (without screws) reliably.



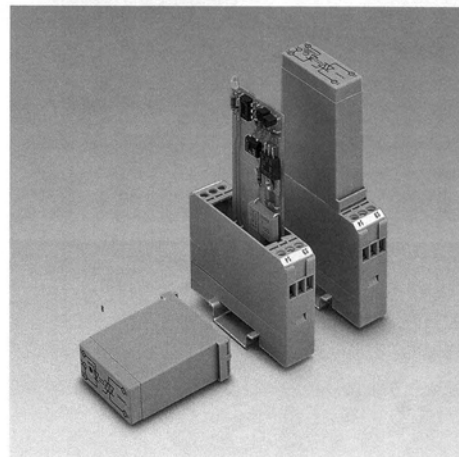
Accommodating the electronic components

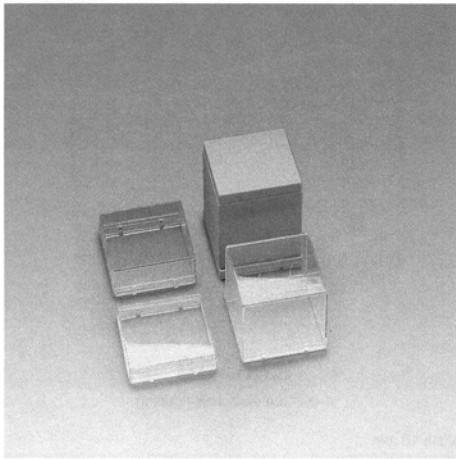
The fine grading of types allows the housings to be adapted optimally to the required PCB surface and to the required number of connection positions. The PCB is rectangular.

The special feature: All electronic components and PCB terminal blocks can be mounted ready for production and machine-soldered in one operation.

To create modules that are narrow and yet have comprehensive electronic components, one or more secondary PCBs can be mounted perpendicular to the motherboard using suitable connection elements.

Layout of the PCBs along with their dimensions, their terminal points and their assembly areas are given in the download center at www.phoenixcontact.com.





Four cover heights

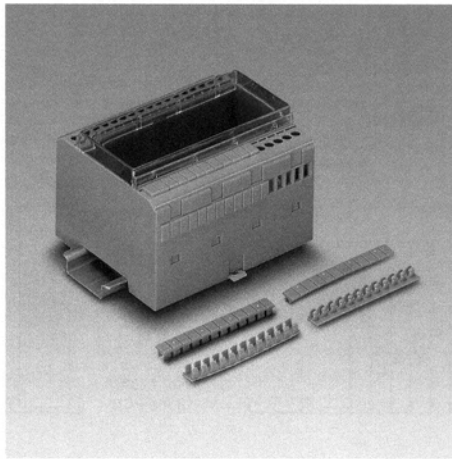
The transparent or opaque green covers are supplied to protect the internal electronic components from shock and dirt. The cover is simply snapped on and can be removed again at any time.

The front has openings for the installation of indicator or actuation elements, and the surface can be printed with a circuit diagram. Covers with front cutouts or imprints on the front can be supplied on request in case of larger batch orders.

Special coded adaptation of the covers ensures that they can only be mounted to match the circuit, i.e. according to the labeling on the front.

A choice can be made between four cover heights, permitting an optimum match between the height and the space requirement for the electronics modules. The 7.5 mm, 15 mm and 35 mm high covers are transparent, whereas the 52 mm high cover is opaque and green in color. The high covers are provided with guide grooves to accommodate the vertically positioned secondary PCBs.

The EMG-housings of 17 mm, 25 mm and 75 mm design widths can be also supplied as a closed version (EMG...-LG/G) on request.

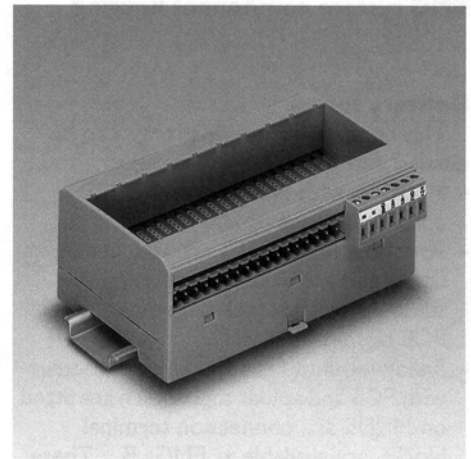


Conductor connections

The standard EMG...LG versions are designed for sturdy 2.5 mm² screw connections on both sides in the form of MKDS 3 PCB terminal blocks with a 5 mm pitch. Terminal points that are not assigned can be closed with the EMG-KA terminal block/screw cover.

Some EMG-housings are also available in the following versions:

- EMG...LG 7,5 for PCB terminal blocks with a 7.5 mm pitch
- EMG...LG/O with open terminal space for free assembly, can be either equipped with 2.8 x 0.8 mm slip-on connections or with PCB terminal block or COMBICON connections with vertical plug-in direction (MSTBV 2,5/...-G)
- EMG...LG/MSTB for a lateral COMBICON connection (plug-in direction parallel to the PCB).



Intermediate elements

The EMG...ZE intermediate elements are available for pitches 25, 40 and 90. These elements enlarge the assembly space perpendicular to the DIN rail considerably. Various PCB guides guarantee optimal accommodation of your electronic components.

