OMNIMATE – device connectivity and electronics housings

As experienced experts we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data. We use our know-how and expertise and our technical know-how to create solutions that are tailored to individual customer needs, as well as general technical solutions for customer needs. Together we set standards in Industrial Connectivity.

1. Housings
OMNIMATE Housing
BLDZ 5.08DN, BLDF 5.08
OMNIMATE Signal PCB connectors SR-SMD, CH20M-BUS
OMNIMATE Housing rail bus 3. Communications interface
OMNIMATE Signal PCB terminals BLF 5.0x, BLZP 5.0x
OMNIMATE Signal PCB connectors SR-SMD, CH20M-BUS
OMNIMATE Housing connection system BHZ, SHL-SMT

2. Power supply
OMNIMATE Housing
CH20M67
CH20M12, CH20M17, CH20M22, CH20M45
OMNIMATE Housing

3. Signal input
OMNIMATE Signal
LM 5.0x, LL 5.00, LS 5.08
LSF-SMT, LSF-SMD, PS 3.5, LM 3.5, LM 5.00,
OMNIMATE Signal PCB connectors BLF 5.0x, BLZP 5.0x
OMNIMATE Signal PCB connectors SR-SMD, CH20M-BUS
OMNIMATE Housing connection system BHZ, SHL-SMT

4. Signal output
OMNIMATE Housing
BLF 5.0x
BL-I/O, BL 3.50, BCF 3.81, BLZP 5.0x,
OMNIMATE Signal PCB connectors SR-SMD, CH20M-BUS
OMNIMATE Housing connection system BHZ, SHL-SMT

5. Signal input
OMNIMATE Signal
BLDZ 5.08DN, BLDF 5.08
OMNIMATE Signal PCB connectors SR-SMD, CH20M-BUS
OMNIMATE Housing rail bus 3. Communications interface
OMNIMATE Signal PCB terminals BLF 5.0x, BLZP 5.0x
OMNIMATE Signal PCB connectors SR-SMD, CH20M-BUS
OMNIMATE Housing connection system BHZ, SHL-SMT

OMNIMATE Services
Take advantage of our experience and in-depth knowledge of our services and let us tell you about our services and the current status of our services or our service offers. For more information on our services, please contact our local service center.

Weidmüller – Your partner in Industrial Connectivity

You ensure the safe operation of machines
We provide reliable housing and connection technology
Let’s connect.

Relyable housing and connection technology for safety relays and safety PLCs

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Modern electronics housings have to meet many requirements with regard to form, function and appearance. Safety is one of the most important aspects. Housings have to withstand the most rigorous tests, in particular when exposed to extreme conditions such as high temperatures, vibrations or mechanical influences. A modular front panel should enable the users of your equipment to connect modern electronics to the modular OMNIMATE electronics housing system CH20M – the new housing standard – is the perfect platform for customised electronic applications.

1. Housings

For the current and voltage supply you need reliable and durable electrical connections. Plug-in connections enable a quick and easy installation of the electronic components. You can specify the electrical components by means of your own electrical equipment. The modular front panel enables you to configure your equipment with the right modules for your requirements.

2. Power supply

The modular OMNIMATE housing system CH20M offers a reliable, innovative and future-proof platform for your operation. The modular front panel enables you to select the right modules for your requirements. In addition, a lead-sealable hinged cover prevents unauthorized access. Reliable operation and high serviceability are ensured through numerous innovative details. This includes, for example, finger safety, which prevents the components from being disassembled while the power is on. The CH20M also comes in a standard 35-mm DIN rail housing concept. For higher gauge cross-sections, the CH20M system provides many options for rapid, secure connections. The CH20M system provides many options for rapid, secure connections. The CH20M system provides many options for rapid, secure connections.

3. Communications interface

An important part of the OMNIMATE CH20M system is the plugable 5-pin bus with 3.81-mm pitch. This bus can be combined with a wide variety of signal processing products. The plugable 5-pin bus is designed to give digital data transfer the best possible environment. The bus offers high bandwidth, high speed and low insertion loss. The bus also provides the option of using a 5-pole DIN rail bus for the communication interface. The bus is suitable for digital communication and exposes the user to the possibility of interconnecting various types of electrical components, such as relays, contactors and interlock contacts.

4. Signal input

Devices must be able to communicate with each other in order to work correctly. In a safety-related process, the actuators of your system not only require precise status information, they also need, above all, secure connections in order to drive relays, valves or motors. Only require precise status information, they also need, above all, secure connections in order to drive relays, valves or motors. These should have a design as compact as possible, except in cases where the actuators need a larger construction.

5. Signal output

In a safety-related process, the actuators of your system not only require precise status information, they also need, above all, secure connections in order to drive relays, valves or motors. Sensors in your process chain detect the deviation in the measurement signals. These signals can be built digital signals used for the representation of the digital status of a component. On the other hand, they can also be analog signals. The 5-pole bus systems for the TS35 DIN rail offer numerous possibilities for design at the connection level. The modules can be produced economically and they can be easily connected. The modules can be produced economically and they can be easily connected. The modules can be produced economically and they can be easily connected.

6. Housings

Modern electronics housings have to meet many requirements with regard to form, function and appearance. Safety is one of the most important aspects. Housings have to withstand the most rigorous tests, in particular when exposed to extreme conditions such as high temperatures, vibrations or mechanical influences. A modular front panel should enable the users of your equipment to connect modern electronics to the modular OMNIMATE electronics housing system CH20M – the new housing standard – is the perfect platform for customised electronic applications.