

#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com





Future-proof solutions for industrial electronics for mounting in the control cabinet

Electronichousings are crucial for the integration of electronic assemblies in the control cabinet. They protect sensitive components and ensure reliable connections. Thanks to high-quality materials, they offer long-term solutions for industrial applications.

Your advantages:

Flexibility: Scalable solutions for different requirements Safety: Robust design to protect your electronics Efficiency: Simple installation and optimized connection technology

Housing solutions for every application:

Our portfolio includes modular housings (e.g. CH20M), small housings and profile housings designed for control, signal conversion and safety applications. These housings offer customizable designs, easy mounting and high connection capacity.

#### **Customization:**

In addition to standard solutions, we offer customization in design, color and printing. The Weidmüller Configurator enables individual design.

#### Our service:

We offer expert advice and technical support for your projects. In the download area you will find CAD data, data sheets and installation instructions for efficient integration.

#### **General ordering data**

Version	Electronics housing sample, OMNIMATE Hous- ing - series CH20M black, Sample kit for develop- ers, consisting of individual parts incl. female plug, unmounted, Enclosure set, Connection technol- ogy, Width: 12.5 mm
Order No.	<u>1167190000</u>
Туре	SAMPLE CH20M12 2/2 PCB
GTIN (EAN)	4032248958207
Qty.	1 items

Creation date 27.11.2025 08:16:58 MEZ





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# **Technical data**

ROHS	Conform		
Dimensions and weights			
Depth	114 mm	Depth (inches)	4.4882 inch
Height Ar. III	117.2 mm	Height (inches)	4.6142 inch
Width	12.5 mm	Width (inches)	0.4921 inch
ength	0 mm	Net weight	136 g
Temperatures			
nstallation temperature	-25 °C85 °C	Humidity	5 - 93% rel. humidity, Tu 40°C, no condensation
Environmental Product Comp	liance		
2 110 0	0 1: 1: 1:1		
RoHS Compliance Status REACH SVHC	Compliant without exemption No SVHC above 0.1 wt%	on	
SEACH SVIIC	No SVHC above 0.1 Wt%		
Rated data acc. to IEC			
tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, max. number of poles	10 A
	<u> </u>	(Tu=20°C)	
Rated current, max. number of poles Tu=40°C)	9 A	Rated voltage for surge voltage class / pollution degree II/2	400 V
Rated voltage for surge voltage class / pollution degree III/2	320 V	Rated voltage for surge voltage class / pollution degree III/3	250 V
Rated impulse voltage for surge voltage class/ pollution degree II/2		Rated impulse voltage for surge voltage class/ pollution degree III/2	
Rated impulse voltage for surge voltage class/ contamination degree III/3	4 kV	Creepage distance, min.	3.2 mm
Clearance, min.	3 mm		-
Material data			
JL 94 flammability rating	V-0	Insulating material	PA 66 GF 30
nsulating material group	II	Surface finish	untreated
Basic material	PA 66 GF 30, Plastic	Comparative Tracking Index (CTI)	400 ≤ CTI <600
General data			
Colour	black	Protection degree	IP20 in installed state
Colour Colour chart (similar)	RAL 9011	Encapsulation option	No
Design - IN requirements	TIAL 3011	Encapsulation option	140
Design - III requirements			
Tolerance for the PCB shape	±0.1 mm	PCB thickness	1.6 mm
Tolerance of circuit board thickness	±0.15 mm		
Assembly properties			
Number of connection levels	2	Number of PCBs, max.	1
Number of ventilation openings	1	Number of poles	8
Cross-connection	No	Type of contact to PCB	Solder connection, direct
Type of connection	Clamping yoke		

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# **Technical data**

Hous	ina	prop	erties

Flip cover mountable	Yes	Marker integrateable	Yes	
Safety lock	sealable	Cut out as preperation for fund integrated	ctional portNo	
Color of clip-on foot	orange	Cross-connection	No	
Number of connection levels	2	Number of poles	8	

### **Connectable coducteurs**

Stripping length	8 mm	Blade size	0.6 x 3.5 mm
Tightening torque, min.	0.4 Nm	Tightening torque, max.	0.5 Nm
Clamping range, min.	0.13 mm <sup>2</sup>	Clamping range, max.	2.5 mm <sup>2</sup>
Wire connection cross section AWG, min.	AWG 26	Wire connection cross section AWG, max.	AWG 14
Solid, min. H05(07) V-U	0.2 mm <sup>2</sup>	Solid, max. H05(07) V-U	2.5 mm <sup>2</sup>
Stranded, max. H07V-R	2.5 mm <sup>2</sup>	w. plastic collar ferrule, DIN 46228 pt min.	4, 0.25 mm²
w. plastic collar ferrule, DIN 46228 pt max.	4, 2.5 mm²	w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm <sup>2</sup>
w. wire end ferrule, DIN 46228 pt 1, max.	2.5 mm <sup>2</sup>	Max. clamping range	2.5 mm <sup>2</sup>

#### **Important note**

 oard contour, restricted zones, and other information for the design in of the circuit board ound in the category connection technology under the corresponding male headers in the ads.

#### Classifications

ETIM 7.0	EC001031	ETIM 8.0	EC001031
ETIM 9.0	EC001031	ETIM 10.0	EC001031
ECLASS 11.0	27-18-27-02	ECLASS 12.0	27-18-27-02
ECLASS 13.0	27-19-03-01	ECLASS 14.0	27-19-03-01
ECLASS 15.0	27-19-03-01		



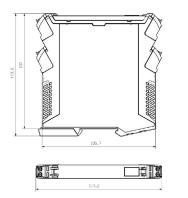
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# **Drawings**

### **Dimensioned drawing**







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# Accessories

#### **Blank**



ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc. Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

#### **General ordering data**

Туре	ESG 6.6/11 BHZ 5.00/02
Order No.	1082490000
GTIN (EAN)	4032248845330

200 ST

Version

ESG, Device markers x 11 mm, PA 66, Colour: white, pluggable

#### **Custom printing**

Qty.



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#### **General ordering data**

Type	ESG 6.6/11 BHZ 5.00 SDR	Version
Order No.	1346330000	ESG, Device markers x 11 mm, PA 66, Colour: To customer
GTIN (EAN)	4050118151206	specification, pluggable
Qty.	40 ST	
_		
Туре	ESG 8/13.5/43.3 SAI SDR	Version
Order No.	ESG 8/13.5/43.3 SAI SDR 1038860000	Version ESG, Device markers x 13.5 mm, PA 66, Colour: To customer

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#### **General ordering data**

5 ST

Qty.

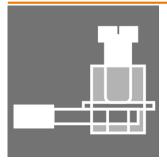
Туре	ESG 8/13.5/43.3 SAI AU
Order No.	<u>1912130000</u>
GTIN (EAN)	4032248541164

Version

ESG, Device markers x 13.5 mm, PA 66, Colour: Transparent,

pluggable

#### Female plugs - Clamping yoke screw connection



The optimum framework for function and innovation: The connection technology for the modular CH20M housing offers you numerous advantages that can make your projects more efficient. With our PCB terminal blocks and connectors, you benefit from flexible and reliable connection technology.

Thanks to automated production processes such as THT and THR soldering and reel packaging, we can guarantee high quality and precision. This enables fast and uncomplicated integration into your systems. In addition, we offer you a wide range of colors as well as various coding and printing options to customize your housings. This allows you to ensure that your products are not only functional, but also visually appealing.

### **General ordering data**

Туре	BHZ 5.00/02/90LH BK/BK	Version
Order No.	1069330000	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 2,
GTIN (EAN)	4032248824939	90°, Clamping yoke connection, cod. 02, Box
Qty.	150 ST	
Туре	BHZ 5.00/02/90LH BK/BL	Version
Order No.	<u>1069360000</u>	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 2,
GTIN (EAN)	4032248824625	90°, Clamping yoke connection, cod. 02, Box
Qty.	150 ST	
Туре	BHZ 5.00/02/90LH BK/OR	Version
Order No.	1063260000	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 2,
GTIN (EAN)	4032248814923	90°, Clamping yoke connection, cod. 02, Box
Qty.	150 ST	

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### **Accessories**

#### Female plugs - PUSH IN spring connection



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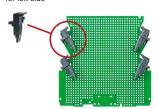
Thanks to automated production processes such as THT and THR soldering and reel packaging, we can guarantee high quality and precision. This enables fast and uncomplicated integration into your systems. In addition, we offer you a wide range of colors as well as various coding and printing options to customize your housings. This allows you to ensure that your products are not only functional, but also visually appealing.

#### **General ordering data**

Туре	BHF 5.00/02/180LH BK/BK	Version
Order No.	<u>1497740000</u>	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 2,
GTIN (EAN)	4050118306835	180°, PUSH IN with actuator, Box
Qty.	150 ST	
Туре	BHF 5.00/02/180LH BK/BL	Version
Order No.	<u>1989220000</u>	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 2,
GTIN (EAN)	4050118373721	180°, PUSH IN with actuator, Box
Qty.	150 ST	
Туре	BHF 5.00/02/180LH BK/OR	Version
Order No.	<u>1988380000</u>	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 2,
GTIN (EAN)	4050118534955	180°, PUSH IN with actuator, Box
Qty.	150 ST	

#### SHL-SMT 5.00/02GL - left connection side





Male connectors with solder pin length optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

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#### **General ordering data**

Туре	SHL-SMT 5.00/02GL 5.9BX	Version
Order No.	1069750000	PCB plug-in connector, Connection element, left, male header, open
GTIN (EAN)	4032248825189	side, THT/THR solder connection, 5.00 mm, Number of poles: 2, 90°,
Qty.	150 ST	Solder pin length (I): 3.2 mm, tinned, black, Box
Туре	SHL-SMT 5.00/02GL 5.9RL	Version
.,,,,	311E 3111 3.00/ 02GE 3.311E	version
Order No.	1069780000	PCB plug-in connector, Connection element, left, male header, open
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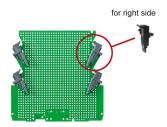
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# **Accessories**

### SHL-SMT 5.00/02GR - right connection side

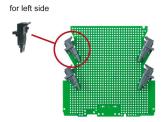


Male connectors with solder pin length optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

#### **General ordering data**

Туре	SHL-SMT 5.00/02GR 5.9BX	Version
Order No.	<u>1069680000</u>	PCB plug-in connector, Connection element, right, male header, open
GTIN (EAN)	4032248825257	side, THT/THR solder connection, 5.00 mm, Number of poles: 2, 90°,
Qty.	150 ST	Solder pin length (I): 3.2 mm, tinned, black, Box
Туре	SHL-SMT 5.00/02GR 5.9RL	Version
Type Order No.	SHL-SMT 5.00/02GR 5.9RL 1069720000	Version PCB plug-in connector, Connection element, right, male header, open
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## SHL-SMT 5.00/02GL - left connection side



High-temperature-resistant, straight, open pin header. Packed in box or tape. On tape and with 1.5 mm solder pin, optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded. HC = High Current.

### **General ordering data**

Туре	SHL-SMT 5.00/02GL 4.2BX	Version
Order No.	<u>1069620000</u>	PCB plug-in connector, Connection element, left, male header, open
GTIN (EAN)	4032248825158	side, THT/THR solder connection, 5.00 mm, Number of poles: 2, 90°,
Qty.	150 ST	Solder pin length (I): 1.5 mm, tinned, black, Box
Туре	SHL-SMT 5.00/02GL 4.2RL	Version
Type Order No.	SHL-SMT 5.00/02GL 4.2RL 1069650000	Version PCB plug-in connector, Connection element, left, male header, open
	,	

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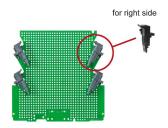
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# **Accessories**

## SHL-SMT 5.00/02GR - right connection side



High-temperature-resistant, straight, open pin header. Packed in box or tape. On tape and with 1.5 mm solder pin, optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded. HC = High Current.

### **General ordering data**

Туре	SHL-SMT 5.00/02GR 4.2BX	Version
Order No.	1069550000	PCB plug-in connector, Connection element, right, male header, open
GTIN (EAN)	4032248825110	side, THT/THR solder connection, 5.00 mm, Number of poles: 2, 90°,
Qty.	150 ST	Solder pin length (I): 1.5 mm, tinned, black, Box
Type	SHL-SMT 5.00/02GR 4.2RL	Version
Type Order No.	SHL-SMT 5.00/02GR 4.2RL 1069580000	Version PCB plug-in connector, Connection element, right, male header, open
• •	· ·	