

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: 17.5 mm
Order No.	<u>1255820000</u>
Туре	SAMPLE CH20M17 3/3 PCB
GTIN (EAN)	4050118048629
Qty.	1 items





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Technical data

ROHS	Conform		
Dimensions and weights			
Depth	114 mm	Depth (inches)	4.4882 inch
Height Width	117.2 mm 17.5 mm	Height (inches) Width (inches)	4.6142 inch 0.689 inch
enath	0 mm	Net weight	116.82 g
 Геmperatures			
nstallation temperature	-25 °C85 °C	Humidity	5 - 93% rel. humidity, Tu 40°C, no condensation
Environmental Product Compl	iance		
Dallic Campulian as Chatus	C		
RoHS Compliance Status REACH SVHC	Compliant without exemption No SVHC above 0.1 wt%	וונ	
TLACIT SVIIC	NO SVIIC above 0.1 Wt70		
Rated data acc. to IEC			
rested acc. to standard	IEC 60664-1, IEC 61984	Rated current, max. number of poles (Tu=20°C)	10 A
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		Creepage distance, min.	3.2 mm
Clearance, min.	3 mm		
Vlaterial data			
JL 94 flammability rating	V-0	Insulating material	PA 66 GF 30
nsulating material group	II	Surface finish	untreated
Basic material	Plastic, PA 66 GF 30	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	10.12.0011	Enoupoulation option	110
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	3	Number of PCBs, max.	1
Number of ventilation openings	0	Number of poles	18
Cross-connection	No	Type of contact to PCB	Solder connection, direct
Type of connection	Clamping yoke		

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Technical data

Housing	properties

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	3	Number of poles	18	

Connectable coducteurs

8 mm	Blade size	0.6 x 3.5 mm
0.4 Nm	Tightening torque, max.	0.5 Nm
0.13 mm ²	Clamping range, max.	2.5 mm ²
AWG 26	Wire connection cross section AWG, max.	AWG 14
0.2 mm ²	Solid, max. H05(07) V-U	2.5 mm ²
2.5 mm ²	w. plastic collar ferrule, DIN 46228 pt min.	4, 0.25 mm ²
ot 4, 2.5 mm²	w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm ²
2.5 mm ²	Max. clamping range	2.5 mm ²
	0.4 Nm 0.13 mm ² AWG 26 0.2 mm ² 2.5 mm ² ot 4, 2.5 mm ²	O.4 Nm O.13 mm² Clamping range, max. Wire connection cross section AWG, max. O.2 mm² Solid, max. H05(07) V-U w. plastic collar ferrule, DIN 46228 pt min. w. wire end ferrule, DIN 46228 pt 1, min.

Important note

can	uit board contour, restricted zones, and other information for the design in of the circuit board be found in the category connection technology under the corresponding male headers in the inloads.

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		



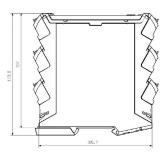
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Drawings

Dimensioned drawing









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Accessories

Custom printing



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

Type ESG 8/13.5/43.3 SAI SDR Order No. 1038860000 GTIN (EAN) 4032248768110

Qty. 1 ST

Version

ESG, Device markers x 13.5 mm, PA 66, Colour: To customer

specification, pluggable

Blank



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General ordering data

200 ST

Qty.

 Type
 ESG 6.6/15 BHZ 5.00/03
 Version

 Order No.
 1082520000
 ESG, Device markers x 15 mm, PA 66, Colour: white, pluggable

 GTIN (EAN)
 4032248845323

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General ordering data

Type ESG 6.6/15 BHZ 5.00 SDR
Order No. 1346320000
GTIN (EAN) 4050118151183

4050118151183 40 ST Version

ESG, Device markers x 15 mm, PA 66, Colour: To customer

specification, pluggable

Blank

Qty.



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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

 Type
 ESG 8/13.5/43.3 SAI AU
 Version

 Order No.
 1912130000
 ESG, Device markers x 13.5 mm, PA 66, Colour: Transparent,

 GTIN (EAN)
 4032248541164
 pluggable

 Oty.
 5 ST

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Accessories

CH20M AD SHL 5.00/03 - Side element cover for CH20M17



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General ordering data

Туре	CH20M AD SHL 5.00/03 AG	Version
Order No.	<u>2554740000</u>	Hood, OMNIMATE Housing - series CH20M Agate grey, Side element
GTIN (EAN)	4050118564792	cover, Width: 17.5 mm
Qty.	50 ST	
Туре	CH20M AD SHL 5.00/03 BK	Version
Order No.	<u>1254110000</u>	Hood, OMNIMATE Housing - series CH20M black, Side element
GTIN (EAN)	4050118046922	cover, Width: 17.5 mm
Qty.	50 ST	
Туре	CH20M AD SHL 5.00/03 LG	Version
Order No.	<u>1529540000</u>	Hood, OMNIMATE Housing - series CH20M Light Grey, Side element
GTIN (EAN)	4050118334418	cover, Width: 17.5 mm
Qty.	50 ST	

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Accessories

Female plugs - PUSH IN spring connection



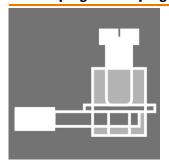
The optimum framework for function and innovation: The connection technology for the modular CH20M housing offers you numerous advantages that can make your projects more efficient. With our PCB terminal blocks and connectors, you benefit from flexible and reliable connection technology.

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

	- · · · J · · · ·	
Туре	BHF 5.00/03/180LH BK/BK	Version
Order No.	1497670000	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 3,
GTIN (EAN)	4050118306811	180°, PUSH IN with actuator, Box
Qty.	108 ST	
Туре	BHF 5.00/03/180LH BK/BL	Version
Order No.	1989200000	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 3,
GTIN (EAN)	4050118373622	180°, PUSH IN with actuator, Box
Qty.	108 ST	
Туре	BHF 5.00/03/180LH BK/OR	Version
Order No.	1989210000	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 3,
GTIN (EAN)	4050118373639	180°, PUSH IN with actuator, Box
Qty.	108 ST	

Female plugs - Clamping yoke screw connection



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General ordering data

Туре	BHZ 5.00/03/90LH BK/OR	Version
Order No.	1063270000	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 3,
GTIN (EAN)	4032248814930	90°, Clamping yoke connection, BHZ 5.00/03/90LH SN BK/OR BX;
Qty.	108 ST	cod. 02, Box

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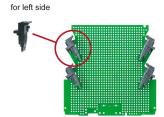
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Accessories

Туре	BHZ 5.00/03/90LH BK/BK	Version
Order No.	1069340000	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 3,
GTIN (EAN)	4032248824946	90°, Clamping yoke connection, BHZ 5.00/03/90LH SN BK/BK BX;
Qty.	108 ST	cod. 02, Box
Туре	BHZ 5.00/03/90LH BK/BL	Version
Type Order No.	BHZ 5.00/03/90LH BK/BL 1069370000	Version PCB plug-in connector, female plug, 5.00 mm, Number of poles: 3,

SHL-SMT 5.00/03GL - left connection side

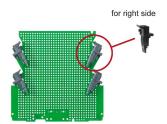


High-temperature-resistant, straight, open pin header. Packed in box or tape. On tape and with 1.5 mm solder pin, optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded. HC = High Current

General ordering data

Туре	SHL-SMT 5.00/03GL 1.5BX	Version
Order No.	1063210000	PCB plug-in connector, Connection element, left, male header, open
GTIN (EAN)	4032248814879	side, THT/THR solder connection, 5.00 mm, Number of poles: 3, 90°,
Qty.	120 ST	Solder pin length (I): 1.5 mm, tinned, black, Box
Туре	SHL-SMT 5.00/03GL 1.5RL	Version
Order No.	1063240000	PCB plug-in connector, Connection element, left, male header, open
GTIN (EAN)	4032248814909	side, THT/THR solder connection, 5.00 mm, Number of poles: 3, 90°,
Qty.	175 ST	Solder pin length (I): 1.5 mm, tinned, black, Tape
Туре	SHL-SMT 5.00/03GL 4.2BX	Version
Type Order No.	SHL-SMT 5.00/03GL 4.2BX 1069630000	Version PCB plug-in connector, Connection element, left, male header, open
	· ·	
Order No.	1069630000	PCB plug-in connector, Connection element, left, male header, open
Order No. GTIN (EAN)	1069630000 4032248824700	PCB plug-in connector, Connection element, left, male header, open side, THT/THR solder connection, 5.00 mm, Number of poles: 3, 90°,
Order No. GTIN (EAN) Qty.	1069630000 4032248824700 120 ST	PCB plug-in connector, Connection element, left, male header, open side, THT/THR solder connection, 5.00 mm, Number of poles: 3, 90°, Solder pin length (I): 4.2 mm, tinned, black, Box
Order No. GTIN (EAN) Oty. Type	1069630000 4032248824700 120 ST SHL-SMT 5.00/03GL 4.2RL	PCB plug-in connector, Connection element, left, male header, open side, THT/THR solder connection, 5.00 mm, Number of poles: 3, 90°, Solder pin length (I): 4.2 mm, tinned, black, Box Version
Order No. GTIN (EAN) Qty. Type Order No.	1069630000 4032248824700 120 ST SHL-SMT 5.00/03GL 4.2RL 1069660000	PCB plug-in connector, Connection element, left, male header, open side, THT/THR solder connection, 5.00 mm, Number of poles: 3, 90°, Solder pin length (I): 4.2 mm, tinned, black, Box Version PCB plug-in connector, Connection element, left, male header, open

SHL-SMT 5.00/03GR - 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.

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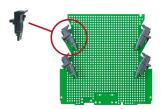
Accessories

General ordering data

Туре	SHL-SMT 5.00/03GR 1.5BX	Version
Order No.	1063140000	PCB plug-in connector, Connection element, right, male header, open
GTIN (EAN)	4032248814824	side, THT/THR solder connection, 5.00 mm, Number of poles: 3, 90°,
Qty.	120 ST	Solder pin length (I): 1.5 mm, tinned, black, Box
Туре	SHL-SMT 5.00/03GR 1.5RL	Version
Order No.	1063170000	PCB plug-in connector, Connection element, right, male header, open
GTIN (EAN)	4032248814848	side, THT/THR solder connection, 5.00 mm, Number of poles: 3, 90°,
Qty.	175 ST	Solder pin length (I): 1.5 mm, tinned, black, Tape
Туре	SHL-SMT 5.00/03GR 4.2BX	Version
Order No.	1069560000	PCB plug-in connector, Connection element, right, male header, open
GTIN (EAN)	4032248825127	side, THT/THR solder connection, 5.00 mm, Number of poles: 3, 90°,
Qty.	120 ST	Solder pin length (I): 4.2 mm, tinned, black, Box
Туре	SHL-SMT 5.00/03GR 4.2RL	Version
Order No.	1069590000	PCB plug-in connector, Connection element, right, male header, open
GTIN (EAN)	4032248824670	side, THT/THR solder connection, 5.00 mm, Number of poles: 3, 90°,
Qty.	175 ST	Solder pin length (I): 4.2 mm, tinned, black, Tape
Туре	SHL-SMT 5.00/03GR 5.9BX	Version
Order No.	1069690000	PCB plug-in connector, Connection element, right, male header, open
GTIN (EAN)	4032248825219	side, THT/THR solder connection, 5.00 mm, Number of poles: 3, 90°,
Qty.	120 ST	Solder pin length (I): 5.9 mm, tinned, black, Box
Туре	SHL-SMT 5.00/03GR 5.9RL	Version
Order No.	1069730000	PCB plug-in connector, Connection element, right, male header, open
GTIN (EAN)	4032248825240	side, THT/THR solder connection, 5.00 mm, Number of poles: 3, 90°,

SHL-SMT 5.00/03GL - 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.

General ordering data

Type	SHL-SMT 5.00/03GL 5.9BX	Version
Order No.	1069760000	PCB plug-in connector, Connection element, left, male header, open
GTIN (EAN)	4032248825196	side, THT/THR solder connection, 5.00 mm, Number of poles: 3, 90°,
Qty.	120 ST	Solder pin length (I): 5.9 mm, tinned, black, Box
Туре	SHL-SMT 5.00/03GL 5.9RL	Version
, ·	311E 31111 3.007 03GE 3.311E	VE131011
Order No.	1069790000	PCB plug-in connector, Connection element, left, male header, open
	, and the second	

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