

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com







Scalability, individual design and cost efficiency The CH20M12 modular electronics housing offers a first-class solution for compact electronics applications that place the highest demands on flexibility, safety and functionality. With a width of just 12 mm, it enables PCB integration and combines maximum performance with minimum space requirements.

Automated THT and THR soldering processes, coding options and CAD data ensure efficient production. Various connection technologies, including screw and tension clamp connections, enable application-specific design. The sophisticated synergy of design, connection technology and functionality ensures a safe, user-friendly and market-driven solution.

As a premium housing, the modular CH20M12 housing offers a durable and robust design.

Perfect for anyone who values quality, safety and a scalable housing concept.

General ordering data

Version	Electronics housing sample, OMNIMATE Hous- ing - series CH20M black, Sample kit for devel- opers, consisting of individual parts incl. female plug, Complete enclosure, Connection technology, Width: 12.5 mm
Order No.	<u>1519270000</u>
Туре	CH20M12 SET 2/3 BK/OR
GTIN (EAN)	4050118326888
Qty.	1 items

1





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2

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Technical data

Approvals			
ROHS	Conform		
Dimensions and weights			
Depth	113.6 mm	Depth (inches)	4.4724 inch
Height	117.2 mm	Height (inches)	4.6142 inch
Width	12.5 mm	Width (inches)	0.4921 inch
Length	0 mm	Net weight	92 g
Temperatures			
Installation temperature	-25 °C85 °C	Humidity	5 - 93% rel. humidity, Tu = 40°C, no condensation
Environmental Product Comp	liance		
RoHS Compliance Status	Compliant without exemption	on	
REACH SVHC	No SVHC above 0.1 wt%		
Rated data acc. to IEC			
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	4 kV
Rated impulse voltage for surge voltage class/ pollution degree III/2	4 kV	Rated impulse voltage for surge voltage class/ contamination degree III/3	4 kV
Material data			
LIII 04 (I			BA 00 05 00
UL 94 flammability rating	V-0	Insulating material	PA 66 GF 30
Insulating material group		Surface finish	untreated
Basic material	Plastic	Comparative Tracking Index (CTI)	400 ≤ CTI <600
General data			
Colour	black	Protection degree	IP20 in installed state
Mounting rail	TS 35	Colour chart (similar)	RAL 9011
Encapsulation option	No	colour chart (onthiar)	10.12.0011
Design - IN requirements			
Tolerance for the PCB shape Tolerance of circuit board thickness	±0.1 mm ±0.15 mm	PCB thickness	1.6 mm
	±0.15 mm		
Assembly properties			
Number of connection levels	3	Number of ventilation openings	1
Number of poles	2	Cross-connection	No
Type of contact to PCB	Solder connection, direct	Type of connection	pluggable

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Technical data

Housing properties

Flip cover mountable	Yes	Marker integrateable	Yes	
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	2			

Connectable coducteurs

Wire connection method	Clamping yoke connection	Stripping length	8 mm
Tightening torque, min.	0.4 Nm	Tightening torque, max.	0.5 Nm
Clamping range, min.	0.13 mm ²	Clamping range, max.	2.5 mm ²
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 ²	Solid, max. H05(07) V-U	2.5 mm ²
Stranded, max. H07V-R	2.5 mm ²	Flexible, min. H05(07) V-K	0.2 mm ²
w. plastic collar ferrule, DIN 46228 pt min.	4, 0.25 mm ²	w. plastic collar ferrule, DIN 46228 pt max.	4, 2.5 mm²
w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm ²	w. wire end ferrule, DIN 46228 pt 1, max.	2.5 mm ²
Max. clamping range	2.5 mm ²		

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	27-19-05-01	ECLASS 14.0	27-19-01-01
ECLASS 15.0	27-19-01-01		



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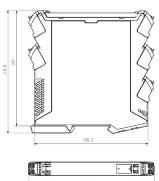
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Drawings













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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	
Type	ESG 8/13.5/43.3 SAI SDR	Version
Type 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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Accessories

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General ordering data

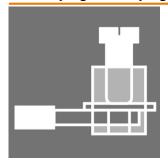
Type		ESG 8/13.5/43.3 SAI AU
Order	No.	<u>1912130000</u>
GTIN ((EAN)	4032248541164
Qty.		5 ST

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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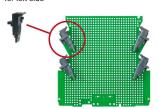
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General ordering data

	3	
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.

7

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
турс	3HL-3WIT 5.00/02GL 5.5HL	version
Order No.	1069780000	PCB plug-in connector, Connection element, left, male header, open
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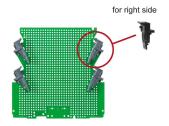
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Accessories

SHL-SMT 5.00/02GR - right connection side

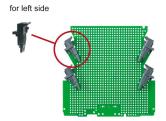


Male connectors with solder pin length optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

General ordering data

Туре	SHL-SMT 5.00/02GR 5.9BX	Version
Order No.	1069680000	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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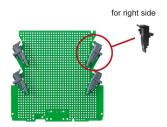
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Accessories

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.	<u>1069550000</u>	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
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