

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com













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Scalability, individual design and cost efficiency
The CH20M22 modular electronics housing offers a flexible and efficient solution for common electronics applications. With a width of 22 mm, it is perfect for integrating the PCB and connecting SPE (Single Pair Ethernet) and RJ45 connections. This combination enables reliable and future-proof data transmission in compact applications. 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

As a premium housing, the modular CH20M22 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 CH2OM black, Sample kit for devel-
	opers, consisting of individual parts incl. female
	plug, Complete enclosure, Connection technology,
	Width: 22.5 mm
Order No.	<u>1519370000</u>
Type	SAMPLE CH20M22 3/3
GTIN (EAN)	4050118327045
Qty.	1 items

and market-driven solution.





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Technical data

Approvals			
ROHS	Conform		
Dimensions and weights			
			4.704:
Depth	113.6 mm	Depth (inches)	4.4724 inch
Height	117.2 mm 22.5 mm	Height (inches)	4.6142 inch 0.8858 inch
Width Length	0 mm	Width (inches) Net weight	140 g
	O IIIIII	Net weight	140 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	nn	
REACH SVHC	No SVHC above 0.1 wt%	511	
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	250 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			
UL 94 flammability rating	V-0	Insulating material	PA 66 GF 30
Insulating material group	<u>II</u>	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		
Design - IN 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	3	Number of ventilation openings	0 N-
Number of poles	Solder connection direct	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 functintegrated	ctional portNo	Color of clip-on foot	orange	
Cross-connection	No	Number of connection levels	3	
Number of poles	4			

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 8.0	EC001031	ETIM 9.0	EC001031
ETIM 10.0	EC001031	ECLASS 14.0	27-19-01-01
ECLASS 15.0	27-19-01-01		



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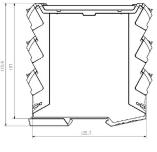
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Drawings















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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 8/13.5/43.3 SAI AU	Version
Order No.	<u>1912130000</u>	ESG, Device markers x 13.5 mm, PA 66, Colour: Transparent,
GTIN (EAN)	4032248541164	pluggable
Qty.	5 ST	

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.

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- Individual laser-quality printing according to specifications

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General ordering data

Type	ESG 8/13.5/43.3 SAI SDR	Version
Order No.	1038860000	ESG, Device markers x 13.5 mm, PA 66, Colour: To customer
GTIN (EAN)	4032248768110	specification, pluggable
Qty.	1 ST	
Туре	ESG 6.6/20 BHZ 5.00 SDR	Version
Type Order No.	ESG 6.6/20 BHZ 5.00 SDR 1221520000	Version ESG, Device markers x 20 mm, PA 66, Colour: To customer
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- Individual laser-quality printing according to specifications

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General ordering data

Type ESG 6.6/20 BHZ 5.00/04
Order No. 1082540000
GTIN (EAN) 4032248845439

200 ST

Qty.

Version

ESG, Device markers x 20 mm, PA 66, Colour: white, pluggable

CH20M AD SHL 5.00/04 - Side element cover for CH20M22, CH20M45, CH20M67



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.



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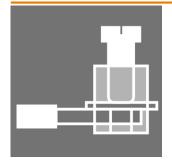
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Accessories

General ordering data

Type	CH20M AD SHL 5.00/04 AG	Version
Order No.	<u>1472830000</u>	Hood, OMNIMATE Housing - series CH20M Agate grey, Side element
GTIN (EAN)	4050118279429	cover, Width: 22.5 mm
Qty.	50 ST	
Туре	CH20M AD SHL 5.00/04 BK	Version
Order No.	<u>1221310000</u>	Hood, OMNIMATE Housing - series CH20M black, Side element
GTIN (EAN)	4050118004830	cover, Width: 22.5 mm
Qty.	50 ST	
Туре	CH20M AD SHL 5.00/04 GG	Version
Type Order No.	CH20M AD SHL 5.00/04 GG 1413740000	Version Hood, OMNIMATE Housing - series CH20M Graphite grey, Side
	,	
Order No.	1413740000	Hood, OMNIMATE Housing - series CH20M Graphite grey, Side
Order No. GTIN (EAN)	1413740000 4050118241648	Hood, OMNIMATE Housing - series CH20M Graphite grey, Side
Order No. GTIN (EAN) Qty.	1413740000 4050118241648 50 ST	Hood, OMNIMATE Housing - series CH20M Graphite grey, Side element cover, Width: 22.5 mm
Order No. GTIN (EAN) Oty. Type	1413740000 4050118241648 50 ST CH20M AD SHL 5.00/04 LG	Hood, OMNIMATE Housing - series CH20M Graphite grey, Side element cover, Width: 22.5 mm Version

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

Type BI		
	3HZ 5.00/04/90LH BK/BK	Version
Order No.	<u>1069350000</u>	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 4,
GTIN (EAN) 40	4032248825011	90°, Clamping yoke connection, cod. 02, Box
Qty. 78	78 ST	
Type BI	3HZ 5.00/04/90LH BK/BL	Version
Order No.	1069380000	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 4,
GTIN (EAN) 40	4032248825028	90°, Clamping yoke connection, cod. 02, Box
Qty. 78	78 ST	
Type BI	3HZ 5.00/04/90LH BK/GGY	Version
	BHZ 5.00/04/90LH BK/GGY 1421750000	Version PCB plug-in connector, female plug, 5.00 mm, Number of poles: 4,
Order No. 14		
Order No. 14	1421750000	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 4,
Order No. 14 GTIN (EAN) 40 Qty. 78	1421750000 4050118225518	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 4, 90°, Clamping yoke connection, BHZ 5.00/04/90LH SN BK/GGY BX
Order No. 140 GTIN (EAN) 40 Oty. 73 Type BI	1421750000 4050118225518 78 ST	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 4, 90°, Clamping yoke connection, BHZ 5.00/04/90LH SN BK/GGY BX cod. 02, Box
Order No. 14 Oty. 73 Type BI Order No. 16	1421750000 4050118225518 78 ST BHZ 5.00/04/90LH BK/OR	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 4, 90°, Clamping yoke connection, BHZ 5.00/04/90LH SN BK/GGY BX cod. 02, Box Version
Type Bl	BHZ 5.00/04/90LH BK/BL 1069380000	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 4,

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Accessories

Type	BHZ 5.00/04/90LH GGY/BL	Version
Order No.	<u>1372580000</u>	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 4,
GTIN (EAN)	4050118174625	90°, Clamping yoke connection, BHZ 5.00/04/90LH SN GGY/BL BX
Qty.	78 ST	cod. 02, Box
Туре	BHZ 5.00/04/90LH GGY/GGY	Version
Type Order No.	BHZ 5.00/04/90LH GGY/GGY 1372520000	Version PCB plug-in connector, female plug, 5.00 mm, Number of poles: 4,
	, , ,	

Female plugs - PUSH IN spring connection



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General ordering data

Туре	BHF 5.00/04/180LH BK/BK	Version
Order No.	1497500000	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 4,
GTIN (EAN)	4050118306828	180°, PUSH IN with actuator, Box
Qty.	78 ST	
Туре	BHF 5.00/04/180LH BK/BL	Version
Order No.	<u>1989090000</u>	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 4,
GTIN (EAN)	4050118533453	180°, PUSH IN with actuator, Box
Qty.	78 ST	
Туре	DUE E 00 (04 (100LU DK (0D	Mi
Type	BHF 5.00/04/180LH BK/OR	Version
Order No.	1989190000	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 4,
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Order No.	1989190000	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 4,
Order No. GTIN (EAN)	<u>1989190000</u> 4050118373820	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 4,
Order No. GTIN (EAN) Qty.	1989190000 4050118373820 78 ST	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 4, 180°, PUSH IN with actuator, Box
Order No. GTIN (EAN) Oty. Type	1989190000 4050118373820 78 ST BHF 5.00/04/180LH BK/RD	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 4, 180°, PUSH IN with actuator, Box Version
Order No. GTIN (EAN) Qty. Type Order No.	1989190000 4050118373820 78 ST BHF 5.00/04/180LH BK/RD 2555620000	PCB plug-in connector, female plug, 5.00 mm, Number of poles: 4, 180°, PUSH IN with actuator, Box Version PCB plug-in connector, female plug, 5.00 mm, Number of poles: 4,

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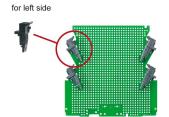
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Accessories

SHL-SMT 5.00/04GL - left connection side

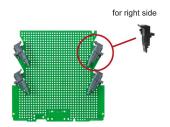


High-temperature-resistant, straight, open pin header. Packed in box or tape. On tape and with 1.5 mm solder pin, optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded. HC = High Current.

General ordering data

Туре	SHL-SMT 5.00/04GL 1.5BX	Version
Order No.	1063220000	PCB plug-in connector, Connection element, left, male header, open
GTIN (EAN)	4032248814886	side, THT/THR solder connection, 5.00 mm, Number of poles: 4, 90°,
Qty.	108 ST	Solder pin length (I): 1.5 mm, tinned, black, Box
Туре	SHL-SMT 5.00/04GL 1.5RL	Version
Order No.	1063250000	PCB plug-in connector, Connection element, left, male header, open
GTIN (EAN)	4032248814916	side, THT/THR solder connection, 5.00 mm, Number of poles: 4, 90°,
Qty.	130 ST	Solder pin length (I): 1.5 mm, tinned, black, Tape
Qty.	130 ST SHL-SMT 5.00/04GL 4.2BX	Solder pin length (I): 1.5 mm, tinned, black, Tape Version
Туре	SHL-SMT 5.00/04GL 4.2BX	Version
Type Order No.	SHL-SMT 5.00/04GL 4.2BX 1069640000	Version PCB plug-in connector, Connection element, left, male header, open
Type Order No. GTIN (EAN)	SHL-SMT 5.00/04GL 4.2BX 1069640000 4032248825080	Version PCB plug-in connector, Connection element, left, male header, open side, THT/THR solder connection, 5.00 mm, Number of poles: 4, 90°,
Type Order No. GTIN (EAN) Qty.	SHL-SMT 5.00/04GL 4.2BX 1069640000 4032248825080 108 ST	Version PCB plug-in connector, Connection element, left, male header, open side, THT/THR solder connection, 5.00 mm, Number of poles: 4, 90°, Solder pin length (I): 4.2 mm, tinned, black, Box
Type Order No. GTIN (EAN) Oty. Type	SHL-SMT 5.00/04GL 4.2BX 1069640000 4032248825080 108 ST SHL-SMT 5.00/04GL 4.2RL	Version PCB plug-in connector, Connection element, left, male header, open side, THT/THR solder connection, 5.00 mm, Number of poles: 4, 90°, Solder pin length (I): 4.2 mm, tinned, black, Box Version

SHL-SMT 5.00/04GR - 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 5.00/04GR 1.5BX	Version
Order No.	1063150000	PCB plug-in connector, Connection element, right, male header, open
GTIN (EAN)	4032248876471	side, THT/THR solder connection, 5.00 mm, Number of poles: 4, 90°,
Qty.	108 ST	Solder pin length (I): 1.5 mm, tinned, black, Box
Туре	SHL-SMT 5.00/04GR 1.5RL	Version
Type Order No.	SHL-SMT 5.00/04GR 1.5RL 1063180000	Version PCB plug-in connector, Connection element, right, male header, open
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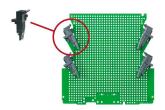
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Accessories

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Type	SHL-SMT 5.00/04GR 4.2BX	Version
Order No.	<u>1069570000</u>	PCB plug-in connector, Connection element, right, male header, open
GTIN (EAN)	4032248825165	side, THT/THR solder connection, 5.00 mm, Number of poles: 4, 90°,
Qty.	108 ST	Solder pin length (I): 4.2 mm, tinned, black, Box
Туре	SHL-SMT 5.00/04GR 4.2RL	Version
Order No.	1069610000	PCB plug-in connector, Connection element, right, male header, open
GTIN (EAN)	4032248825059	side, THT/THR solder connection, 5.00 mm, Number of poles: 4, 90°,
Qty.	130 ST	Solder pin length (I): 4.2 mm, tinned, black, Tape
Туре	SHL-SMT 5.00/04GR 5.9BX	Version
Type Order No.	SHL-SMT 5.00/04GR 5.9BX 1069710000	Version PCB plug-in connector, Connection element, right, male header, open
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Order No.	1069710000	PCB plug-in connector, Connection element, right, male header, open
Order No. GTIN (EAN)	1069710000 4032248825073	PCB plug-in connector, Connection element, right, male header, open side, THT/THR solder connection, 5.00 mm, Number of poles: 4, 90°,
Order No. GTIN (EAN) Qty.	1069710000 4032248825073 108 ST	PCB plug-in connector, Connection element, right, male header, open side, THT/THR solder connection, 5.00 mm, Number of poles: 4, 90°, Solder pin length (I): 5.9 mm, tinned, black, Box
Order No. GTIN (EAN) Oty. Type	1069710000 4032248825073 108 ST SHL-SMT 5.00/04GR 5.9RL	PCB plug-in connector, Connection element, right, male header, open side, THT/THR solder connection, 5.00 mm, Number of poles: 4, 90°, Solder pin length (I): 5.9 mm, tinned, black, Box Version
Order No. GTIN (EAN) Qty. Type Order No.	1069710000 4032248825073 108 ST SHL-SMT 5.00/04GR 5.9RL 1069740000	PCB plug-in connector, Connection element, right, male header, open side, THT/THR solder connection, 5.00 mm, Number of poles: 4, 90°, Solder pin length (I): 5.9 mm, tinned, black, Box Version PCB plug-in connector, Connection element, right, male header, open

SHL-SMT 5.00/04GL - 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

Туре	SHL-SMT 5.00/04GL 5.9BX	Version
Order No.	1069770000	PCB plug-in connector, Connection element, left, male header, open
GTIN (EAN)	4032248825097	side, THT/THR solder connection, 5.00 mm, Number of poles: 4, 90°,
Qty.	108 ST	Solder pin length (I): 5.9 mm, tinned, black, Box
Туре	CLU CNAT F OO (OAOL F OD)	<i>M</i> :
1,00	SHL-SMT 5.00/04GL 5.9RL	Version
Order No.	1069810000	PCB plug-in connector, Connection element, left, male header, open
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