

**OMNIMATE Housing - series CH20M
CH20M22 SET 1/1 BK/OR**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com



Similar to illustration

**Superior efficiency, flexibility and design - the
"standard tailor-made fit"**

When selecting a housing design, flexibility is a key factor. Other important criteria are: scalability, customised design, innovative functionality and cost efficiency. You need a choice which offers the maximum performance with the minimum overhead.

The CH20M22 modular electronics housing is the standard format from amongst the different housing widths. It has the optimal width for most typical electronics applications.

The entire system is characterized by excellence: outstanding scalability and flexibility, a high security level, innovative application functionality and a variety of practical details.

- **Quicker installation** with features such as "Wire ready" the universal multi-tool screw head
- **User-friendly operations:** with clear and permanent labelling and extra marking possibilities, integrated release clip or transparent cover
- **Maximum interference immunity** with ESD-compliant construction featuring deeply overlapping module joint edges made from high-performance plastic
- **High operational reliability** with the unique Auto-Set coding system and featuring double-sided touch protection on the pin header and socket blocks

CH20M - a compact name for the most flexible system available on the market. It doesn't just stand for "Component Housing IP20 Modular".

CH20M also stands for efficiency and innovation throughout design, production and use.

General ordering data

Type	CH20M22 SET 1/1 BK/OR
Order No.	1519300000
Version	Electronics housing sample, OMNIMATE Housing - series CH20M black, Sample kit for developers, consisting of individual parts incl. female plug, Width: 22.5 mm
GTIN (EAN)	4050118326895
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Length	119.2 mm	Length (inches)	4.693 inch
Width	22.5 mm	Width (inches)	0.886 inch
Height	113.6 mm	Height (inches)	4.472 inch
Net weight	97 g		

System characteristics

Version	Sample kit for developers, consisting of individual parts incl. female plug	Type of connection	pluggable
Number of connections	8	Number of connection levels	1
Number of PCBs per module	1	PCB thickness	1.6 mm
Type of contact to PCB	Solder connection, direct	Tolerance for the PCB shape	±0.1 mm
Contact to terminal rail	No	Protection degree	IP20
Encapsulation option	No		

Material data

Insulating material	PA 66 GF 30	Colour code	black
Colour chart (similar)	RAL 9011	Insulating material group	II
CTI	≥ 550	UL 94 flammability rating	V-0
Heat and fire resistance in accordance with IEC 60335-1 (glow wire test)	GWIT (glow wire ignition temperature) 850°C, 30 sec. in acc. with IEC 60695-2-12, GWIT (glow wire ignition temperature) 775°C, 5 sec. in acc. with IEC 60695-2-13	Storage temperature, min.	-40 °C
Storage temperature, max.	85 °C	Max. relative humidity during storage	80 %
Operating temperature, min.	-40 °C	Operating temperature, max.	120 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	85 °C

Rated data acc. to IEC

Rated current, max. no. of poles (Tu=20°C)	10 A	Rated current, max. no. 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

Classifications

ETIM 5.0	EC002504	ETIM 6.0	EC001031
eClass 6.2	27-18-05-05	eClass 7.1	27-18-05-05
eClass 8.1	27-18-05-05	eClass 9.0	27-18-27-02
eClass 9.1	27-18-27-92		

Notes

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Technical data

Approvals

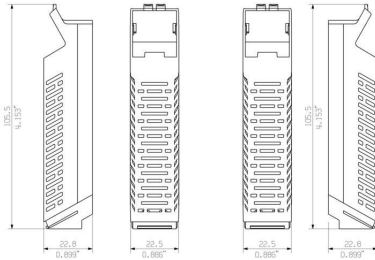
ROHS

Conform

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Drawings

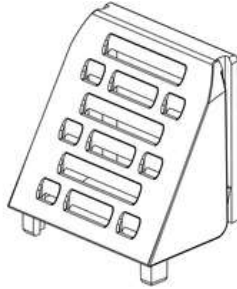


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Accessories

Covers



The new standard for integrating innovative electronics on the DIN rail.

Trend-setting flexibility and design freedom.

Flexibility, efficiency, functionality and security.

CH20M (Component Housing IP20 Modular) –

Weidmüller's new housing standard fits perfectly with customised electronics applications. This "standard tailor-made fit" combines the design freedom made possible by a pioneering concept of modularity with the minimized overhead and optimised planning security of a standard system.

From development to production, the CH20M represents efficiency. It covers all of the requirements for a modern electronics platform built with the future in mind. The system has several outstanding features, including its scalability, flexibility, high security level and innovative application functionality. Overall, the product line covers all common pitches, from the 6.1-mm sliced design to the 22.5-mm and 67-mm large-scale housings.

The application-centred design was developed from real world experience for the real world. It is designed with the market, the application and the future in mind. The essential features speak for themselves:

- Systematic modularity- from head (plate) to (clip-on) foot
- Excellent scalability – 7 different widths, from 6.1 - 67.5 mm!
- Maximized security: with leading-pin contact and captive coding system
- Unlimited continuity - a unified design for all pitch widths
- Very compact size – up to 4 connection levels and with release lever
- Complete process security - SMT/THR connection components packaged in Tape-on-Reel and an optimised PCB design
- Maximized efficiency - with the optimised use of PCB surface space

CH20M - offering the best performance with the least effort. A quantum leap for your application!

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
CH20M AD SHL 5.00/04 BK 2010	1221310000	Hood black, Width: 22.5 mm	4050118004830 50 pc(s).	

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Accessories**Accessories for network-compatible current measuring transducers****ACT20C: The connective solution**

- Communication-enabled interface for status monitoring and diagnostics
- FDT/DTM software via Ethernet for configuring local or remote access
- ACT20C as a communication-enabled station with "Plug & Produce" function

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
ESG 6.6/20	1082540000	ESG, Device markers x 20	4032248845439	200 pc(s).
BHZ 5.00/04		mm, PA 66, Colour code: white		