

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image















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 ESDcompliant 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

Version	Modular housing, OMNIMATE Housing - series CH20M black, Width: 22.5 mm
Order No.	<u>2555100000</u>
Туре	CH20M22 B BK/RD 2010
GTIN (EAN)	4050118565133
Qty.	10 Stück



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Technische Daten

Dimensions and weights

Depth	107.4 mm	Depth (inches)	4.228 inch
Height	109.3 mm	Height (inches)	4.303 inch
Width	22.5 mm	Width (inches)	0.886 inch
Net weight	31.797 g		

Temperatures

Operating temperature range	-40 °C120 °C	Operating temperature, min.	-40 °C
Operating temperature, max.		Humidity	5 - 93% rel. humidity, Tu =
	120 °C		40°C, no condensation

Component Properties

Color of clip-on foot	red	Number of connection levels, max. 3		

Mechanical tests

According to Standard	DIN EN 61373:1999 (shock and vibra	DIN EN 61373:1999 (shock and vibration)		
Test conditions	,	five housings installed in a row, 200g additional weight on the PCB		
Proved axles	X, Y, Z			
Shock test	General test advices	All mechanical tests were tested on examplary setup, or in view of depending regulation. The specified results do not replace approval relevant tests. They are just orientation values.		
	Test category	1		
	Number of shocks per axle	3 in positive and negative direction		
	Shock duration	30 ms		
	Acceleration horizontal	30 m/s ²		
	Acceleration vertical	30 m/s ²		
	Acceleration longitudinal	50 m/s ²		
Vibration test	Effective acceleration	7.9 m/s ²		
	Test duration	5 hours per axle		
	Test category	1B		

Thermal tests

Thermal tests	General test advices	All thermal tests were tested on examplary setup, or in view of depending regulation. The specified results do not replace approval relevantests. They are just orientation values.
	Test conditions	three housings installed in a row - no spacing, three connection level - six connectors per housing
	Test axles	horizontal, More on request
	Ambient temperature	70 °C
	Power dissapation, max.	1.9 W
	Ambient temperature	60 °C
	Power dissapation, max.	2.35 W
	Ambient temperature	40 °C
	Power dissapation, max.	3.4 W
	Ambient temperature	20 °C
	Power dissapation, max.	4.5 W



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Assembl	v prop	erties
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Assembly properties			
Number of slots for female connectors of the mounted assembly, max.	of 6	Number of PCBs, max.	1
Number of connection levels, max.	3	Number of poles, max.	24
Height of components on the PCB, max	. 16.1 mm	Type of assembly of the PCB	double-sided
Design - IN requirements			
PCB thickness	1.6 mm	Tolerance for the PCB shape	±0.1 mm
Tolerance of circuit board thickness	±0.15 mm		
Individualization options			
Customer specific labelling possible	V	Customer specific order process	See guideline under
Processing possibilities	Yes		downloads
Processing possibilities	Laser processing		
General data			
Colour	black	Colour chart (similar)	RAL 9011
Encapsulation option	No	Protection degree	IP20 in installed state
Rail	TS 35		ii 20 iii iiistalida stato
Material data			
Comparative Tracking Index (CTI)	600 ≤ CTI	Insulating material	PA 66 GF 30
Insulating material group	1	UL 94 flammability rating	V-0
Classifications			
ETIM 6.0	EC001031	ETIM 7.0	EC001031
ETIM 8.0	EC001031	ECLASS 9.0	27-18-27-90
ECLASS 10.0	27-18-27-92	ECLASS 11.0	27-18-27-92
ECLASS 12.0	27-18-27-92		
Important note			
Product information		eted zones, and other information for the design echnology under the corresponding male heade	
Approvals	in the datagery defined tent	ostinology and of the corresponding male needs	NO III IIIO GOVINICAGO.
Approvato			
ROHS	Conform		
Downloads			
Engineering Date	CAD data CTED		
Engineering Data	CAD data – STEP CAD data – Pin header	oin length CH2OM A OV PCB-SHL 703	15
Engineering Data	EPLAN		
Technical Documentation	PCB_position_50881_LF	P-POSITION_22MM	
User Documentation	Guideline customerspecific housings Guideline kundenspezifische Gehäuse		
Catalogues	Catalogues in PDF-format		
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Zeichnungen

Product image



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Base element without cut-out in snap-in foot area

Dimensioned drawing

