OMNIMATE Housing - series CH20M CH20M22 B BUS BK/OR



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com





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 CH2OM22 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

Туре	CH20M22 B BUS BK/OR
Order No.	<u>1177000000</u>
Version	Modular housing, OMNIMATE Housing - series CH2OM black, Flange-mounted housing, Width: 22.5 mm
GTIN (EAN)	4032248970360
Qty.	10 pc(s).

OMNIMATE Housing - series CH20M CH20M22 B BUS BK/OR

Technical data



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com

Width 22.5 mm Width (inches) 0.886 inch Height 109.3 mm Height (inches) 4.303 inch Net weight 39 g System characteristics System characteristics System characteristics Version Flange-mounted housing Inclenance for the PCB shape Type of connection Bus connection PCB thickness 1.6 mm Contact to terminal rail No Material data No Colour black Insulating material PA 66 GF 30 Colour black Colour chart (similar) RAL 9011 Insulating material group I Comparative Tracking Index (ICTI) ≥ 550 Operating temperature, main. -40 °C Operating temperature, max. 120 °C Operating temperature, main. -40 °C Classifications ETIM 7.0 EC001031 eClass 10.0 27-18-27-92 Approvals Conform Downloads Approvals Conform Brochure/Catalogue ELANALO.SIGN.CONV.EN MB DEVICE MANUF.EN CAT 2 PORTFOLIOGUDE EN FL. 72H SAMPLE SER EN PO OMINIMATE EN PO OMINIMATE EN PO OMINIMATE EN EPLAN	Dimensions and weights			
Width 22.5 mm Width (inches) 0.886 inch Height 109.3 mm Height (inches) 4.303 inch Net weight 39 g System characteristics System characteristics System characteristics Version Flange-mounted housing Interace for the PCB shape Type of connection Bus connection Number of PCBs per module 1 PCB thickness 1.6 mm Encapsulation option No Contact to terminal rail No Material data PA 66 GF 30 Colour black Colour chart (similar) RAL 9011 Insulating material group Il Colour chart (similar) RAL 9011 Insulating material group II UL 94 flammability rating V-0 Operating temperature, mai. 120 °C Classifications ETIM 6.0 EC001031 ETIM 7.0 EC001031 eClass 10.0 27-18-27-92 Approvals ROHS Conform Conform Colour SUP	Length	107.4 mm	Length (inches)	4.228 inch
Height 109.3 mm Net weight 39 g System characteristics Version Flange-mounted housing Number of PCBs per module 1 Tolerance for the PCB shape ±0.15 mm Encapsulation option No Material data PA 66 GF 30 Colour chart (similar) RAL 9011 Colour chart (similar) RAL 9011 Colour chart (similar) 2550 Operating temperature, max. 120 °C Classifications Coloural ETIM 6.0 EC001031 Class 9.0 27.18-27.90 ROHS Conform Downloads ETIM 7.0 Brochure/Catalogue FL ANALO.SIGN.CONV.EN MB DEVICE MANUF, EN CAT 2 PORTFOLIQUIDE EN FL 2024 ISAMPLE SER EN PO OMNIMATE EN Brochure/Catalogue FL ANALO.SIGN.CONV.EN MB DEVICE MANUF, EN CAT 2 PORTFOLIQUIDE EN FL 2741 SAMPLE SER EN PO OMNIMATE EN		22.5 mm		0.886 inch
Net weight 39 g System characteristics Version Flange-mounted housing Type of connection Number of PCBs per module 1 Tolerance for the PCB shape ±0.15 mm Encapsulation option No Material data No Insulating material PA 66 GF 30 Colour chart (similar) RAL 9011 Colour chart (similar) RAL 9011 Colour chart (similar) RAL 9011 Comparative Tracking Index (CTI) ≥ 550 Uperating temperature, max. 120 °C Classifications ETIM 6.0 ETIM 6.0 EC001031 ETIM 6.0 EC001031 eClass 9.0 27-18-27-90 Approvals ROHS Conform Downloads Brochure/Catalogue ELANALO.SIGN.CONV. EN MB DEVICE MANUF. EN CAT 2 PORTFOLIOGUIDE EN FL 2741 SAMPLE SER EN PO OMNIMATE EN Engineering Data EPLAN	Height	109.3 mm		
Number of PCBs per module 1 PCB thickness 1.6 mm Tolerance for the PCB shape ±0.15 mm Contact to terminal rail No Material data No Contact to terminal rail No Material data PA 66 GF 30 Colour black Insulating material PA 66 GF 30 Colour black Colour chart (similar) RAL 9011 Insulating material group II Comparative Tracking Index (CTI) ≥ 550 UL 94 flammability rating V-0 Max. relative humidity during storage 80 % Operating temperature, min. -40 °C Operating temperature, max. 120 °C Classifications ETIM 7.0 EC001031 eClass 9.0 27.18-27.90 eClass 10.0 27.18-27.92 Approvals ROHS Conform Conform Brochure/Catalogue EL ANALO.SIGN.CONV. EN MB DEVICE MANUF. EN CAT 2 PORTHOLOGUIDE EN FL AALUNE SAFE PL EN PC OMINIATE EN PC	Net weight	39 g		
Number of PCBs per module 1 PCB thickness 1.6 mm Tolerance for the PCB shape ±0.15 mm Contact to terminal rail No Material data No Contact to terminal rail No Material data PA 66 GF 30 Colour black Insulating material PA 66 GF 30 Colour black Colour chart (similar) RAL 9011 Insulating material group II Comparative Tracking Index (CTI) ≥ 550 UL 94 flammability rating V-0 Max. relative humidity during storage 80 % Operating temperature, min. -40 °C Operating temperature, max. 120 °C Classifications ETIM 7.0 EC001031 eClass 9.0 27.18-27.90 eClass 10.0 27.18-27.92 Approvals ROHS Conform Conform Brochure/Catalogue EL ANALO.SIGN.CONV. EN MB DEVICE MANUF. EN CAT 2 PORTHOLIOGUIDE EN FL MACHINE SAFETY EN FL MACHINE S	System characteristics			
Number of PCBs per module 1 PCB thickness 1.6 mm Tolerance for the PCB shape ±0.15 mm Contact to terminal rail No Material data No Contact to terminal rail No Material data PA 66 GF 30 Colour black Insulating material PA 66 GF 30 Colour black Colour chart (similar) RAL 9011 Insulating material group II Comparative Tracking Index (CTII) ≥ 550 UL 94 flammability rating V-0 Operating temperature, max. 120 °C Operating temperature, min. -40 °C Classifications ETIM 6.0 EC001031 ETIM 7.0 EC001031 eClass 9.0 27.18-27-90 eClass 10.0 27.18-27.92 Approvals R0HS Conform Conform Brochure/Catalogue EL ANALO.SIGN.CONV. EN MB DEVICE MANUF. EN CAT 2 PORTHOLIOGUIDE EN FL AACHINE SAFETY EN FL 72H SAMPLE SER EN PO OMNIMATE EN Engineering Data EPLAN	Version	Elange-mounted housing	Type of connection	Bus connection
Tolerance for the PCB shape ±0.15 mm Contact to terminal rail No Material data No Material data No Material data PA 66 GF 30 Colour black Colour chart (similar) RAL 9011 Insulating material group II Comparative Tracking Index (CTI) ≥ 550 UL 94 flammability rating V-0 Max. relative humidity during storage 80 % Operating temperature, min. -40 °C Operating temperature, max. 120 °C ETIM 7.0 EC001031 eClass 10.0 27-18-27-92 Approvals Conform EOW ECO01031 eClass 10.0 27-18-27-92 Approvals Conform EOW ECO01031 ETIM 7.0 EC001031 Brochure/Catalogue EL ANALO.SIGN.CONV.EN MB DEVICE MANUF, EN CAT 2 PORTFOLIOGUIDE EN FL MACHINE SAFETY EN FL ZH SAMPLE SER EN PO OMIMATE EN ERE N EVEN Engineering Data EPLAN EPLAN EVEN EVEN				
Encapsulation option No Material data Insulating material PA 66 GF 30 Colour chart (similar) RAL 9011 Comparative Tracking Index (CTI) ≥ 550 Max. relative humidity during storage 80 % Operating temperature, max. 120 °C Classifications ETIM 6.0 EC001031 ETIM 7.0 EC001031 eClass 9.0 27-18-27-90 eClass 10.0 27-18-27-92 Approvals ROHS Conform Downloads Brochure/Catalogue FL ANALO.SIGN.CONV. EN MB DEVICE MANUF. EN MB DEVICE MANUF. EN PC OMNIMATE EN Engineering Data EPLAN	-			
Colour Chart (similar) RAL 9011 Insulating material group II Comparative Tracking Index (CTI) ≥ 550 UL 94 flammability rating V-0 Max. relative humidity during storage 80 % Operating temperature, min. -40 °C Operating temperature, max. 120 °C Classifications -40 °C Classifications ETIM 6.0 EC001031 ETIM 7.0 EC001031 eClass 9.0 27-18-27-90 eClass 10.0 27-18-27-92 Approvals Conform Downloads MB DEVICE MANUF. EN CAT 2 PORTFOLIOGUIDE EN FL MACHINE SAFETY EN PL T. 72H SAMPLE SAFETY EN PL T. 72H SAMPLE SAFE N PO OMNIMATE EN PO OMNIMATE EN Engineering Data EPLAN EPLAN Engineering Data				110
Colour Chart (similar) RAL 9011 Insulating material group II Comparative Tracking Index (CTI) ≥ 550 UL 94 flammability rating V-0 Max. relative humidity during storage 80 % Operating temperature, min. -40 °C Operating temperature, max. 120 °C Classifications -40 °C ETIM 6.0 EC001031 ETIM 7.0 EC001031 eClass 9.0 27-18-27-90 eClass 10.0 27-18-27-92 Approvals Conform	Material data			
Colour chart (similar) RAL 9011 Insulating material group II Comparative Tracking Index (CTI) ≥ 550 UL 94 flammability rating V-0 Max. relative humidity during storage 80 % Operating temperature, min. -40 °C Operating temperature, max. 120 °C Classifications -40 °C Classifications ETIM 6.0 EC001031 ETIM 7.0 EC001031 eClass 9.0 27-18-27-90 eClass 10.0 27-18-27-92 Approvals Conform Conform Bownloads MB DEVICE MANUF. EN CAT 2 PORTFOLIOGUIDE EN FL MACHINE SAFETY EN PO OMINIMATE EN PO OMINIMATE EN PO OMINIMATE EN FL ANALO.SIGN.CONV. EN MB DEVICE MANUF. EN CAT 2 PORTFOLIOGUIDE EN FL MACHINE SAFETY EN PC OMINIMATE EN Engineering Data EPLAN				
Comparative Tracking Index (CTI) ≥ 550 UL 94 flammability rating V-0 Max. relative humidity during storage 80 % Operating temperature, min. -40 °C Operating temperature, max. 120 °C ETIM 5.0 EC001031 ETIM 7.0 EC001031 eClass 9.0 27-18-27-90 eClass 10.0 27-18-27-92 Approvals Conform ETIM 7.0 EC001031 Brochure/Catalogue EL ANALO.SIGN.CONV. EN MB DEVICE MANUF. EN CAT 2 PORTFOLIOGUIDE EN FL MACHINE SAFETY EN FL 72H SAMPLE SER EN PO OMNIMATE EN COMMIMATE EN Engineering Data EPLAN				
Max. relative humidity during storage 80 % Operating temperature, min. -40 °C Operating temperature, max. 120 °C Classifications Classifications ETIM 6.0 EC001031 ETIM 7.0 EC001031 eClass 9.0 27-18-27-90 eClass 10.0 27-18-27-92 Approvals Conform Conform Conform Downloads FL ANALO.SIGN.CONV. EN MB DEVICE MANUF. EN CAT 2 PORTFOLIOGUIDE EN FL MACHINE SAFETY EN PO OMNIMATE EN PO OMNIMATE EN FL ANALO.SIGN.CONV. EN MB DEVICE MANUF. EN CAT 2 PORTFOLIOGUIDE EN FL MACHINE SAFETY EN PO OMNIMATE EN FL MACHINE SAFETY EN PO OMNIMATE EN Engineering Data EPLAN EPLAN	Colour chart (similar)			
Operating temperature, max. 120 °C Classifications EC001031 ETIM 6.0 EC001031 eClass 9.0 27-18-27-90 eClass 10.0 27-18-27-92 Approvals Conform Downloads EL ANALO.SIGN.CONV. EN MB DEVICE MANUF. EN CAT 2 PORTFOLIOGUIDE EN FL MACHINE SAFETY EN FL 72H SAMPLE SER EN PO OMNIMATE EN Engineering Data EPLAN			UL 94 flammability rating	
Classifications ETIM 6.0 EC001031 ETIM 7.0 EC001031 eClass 9.0 27-18-27-90 eClass 10.0 27-18-27-92 Approvals Conform Conform Brochure/Catalogue FL ANALO, SIGN, CONV, EN MB DEVICE MANUF, EN CAT 2 PORTFOLIOGUIDE EN FL MACHINE SAFETY F	Max. relative humidity during storage		Operating temperature, min.	-40 °C
ETIM 6.0 EC001031 ETIM 7.0 EC001031 eClass 9.0 27-18-27-90 eClass 10.0 27-18-27-92 Approvals Conform Brochure/Catalogue FL ANALO.SIGN.CONV. EN MB DEVICE MANUF. EN CAT 2 PORTFOLIOGUIDE EN FL MACHINE SAFETY EN FL MACHINE SAFETY EN FL T2H SAMPLE SER EN PO OMNIMATE EN Engineering Data EPLAN	Operating temperature, max.	120 °C		
eClass 9.0 27-18-27-90 eClass 10.0 27-18-27-92 Approvals ROHS Conform Downloads Brochure/Catalogue FL ANALO.SIGN.CONV. EN MB DEVICE MANUF. EN CAT 2 PORTFOLIOGUIDE EN FL MACHINE SAFETY EN FL 72H SAMPLE SER EN PO OMNIMATE EN Engineering Data EPLAN	Classifications			
eClass 9.0 27-18-27-90 eClass 10.0 27-18-27-92 Approvals ROHS Conform Downloads Brochure/Catalogue FL ANALO.SIGN.CONV. EN MB DEVICE MANUF. EN CAT 2 PORTFOLIOGUIDE EN FL MACHINE SAFETY EN FL 72H SAMPLE SER EN PO OMNIMATE EN Engineering Data EPLAN	ETIM 6 O	FC001021		FC001021
Approvals ROHS Conform Downloads Enchure/Catalogue FL ANALO.SIGN.CONV. EN MB DEVICE MANUF. EN CAT 2 PORTFOLIOGUIDE EN FL MACHINE SAFETY EN FL 72H SAMPLE SER EN PO OMNIMATE EN Engineering Data EPLAN				
ROHS Conform Downloads FL ANALO.SIGN.CONV. EN Brochure/Catalogue FL ANALO.SIGN.CONV. EN MB DEVICE MANUF. EN CAT 2 PORTFOLIOGUIDE EN FL MACHINE SAFETY EN FL MACHINE SAFETY EN FL 72H SAMPLE SER EN PO OMNIMATE EN Engineering Data EPLAN	eClass 9.0	27-18-27-90	eclass 10.0	27-18-27-92
Downloads Brochure/Catalogue FL ANALO.SIGN.CONV. EN MB DEVICE MANUF. EN CAT 2 PORTFOLIOGUIDE EN FL MACHINE SAFETY EN FL 72H SAMPLE SER EN PO OMNIMATE EN Engineering Data EPLAN	Approvals			
Brochure/Catalogue FL ANALO.SIGN.CONV. EN MB DEVICE MANUF. EN CAT 2 PORTFOLIOGUIDE EN FL MACHINE SAFETY EN FL 72H SAMPLE SER EN PO OMNIMATE EN Engineering Data	ROHS	Conform		
MB DEVICE MANUF. EN CAT 2 PORTFOLIOGUIDE EN FL MACHINE SAFETY EN FL 72H SAMPLE SER EN PO OMNIMATE EN Engineering Data	Downloads			
MB DEVICE MANUF. EN CAT 2 PORTFOLIOGUIDE EN FL MACHINE SAFETY EN FL 72H SAMPLE SER EN PO OMNIMATE EN Engineering Data	Brochure (Catalogue			
PO OMNIMATE EN Engineering Data EPLAN	Biochule/ Catalogue	<u>MB DEVICE MANUF. EN</u> CAT 2 PORTFOLIOGUIDE EI FL MACHINE SAFETY EN		
Engineering Data <u>EPLAN</u>				
	Engineering Data	EPLAN		

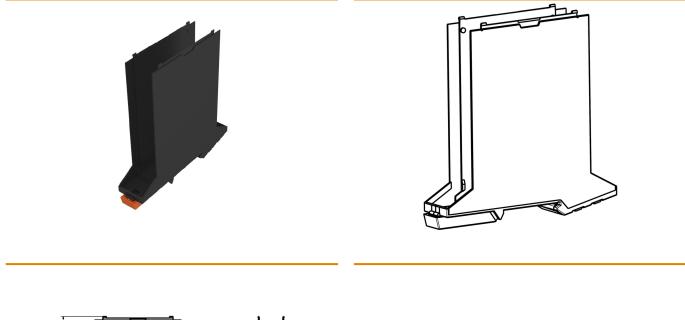
OMNIMATE Housing - series CH20M CH20M22 B BUS BK/OR

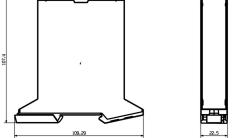
Drawings



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany Fon: +49 5231 14-0 Fax: +49 5231 14-292083 www.weidmueller.com





		٦

Creation date May 2, 2020 10:30:08 AM CEST

Catalogue status 17.04.2020 / We reserve the right to make technical changes.