

CH20M67 B BUS GGY/BK 2019

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 CH20M67 modular electronics housings come in XXL size and are an integrated range. It is suited for those electronics applications that require lots of space, such as compact controllers and power supplies.

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 EMC-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

Version	Modular housing, OMNIMATE Housing - series CH20M Graphite grey, Base element, Recess in dent foot area for BUS contact, Width: 67.5 mm
Order No.	1413780000
Type	CH20M67 B BUS GGY/BK 2019
GTIN (EAN)	4050118214901
Qty.	4 pc(s).

CH20M67 B BUS GGY/BK 2019

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Dimensions and weights

Depth	107.4 mm	Depth (inches)	4.228 inch
Height	109.3 mm	Height (inches)	4.303 inch
Width	67.5 mm	Width (inches)	2.657 inch
Net weight	44.55 g		

Temperatures

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

Material data

Comparative Tracking Index (CTI)	600 ≤ CTI	Insulating material	PA 66 GF 30
Insulating material group	I	UL 94 flammability rating	V-0

General data

Colour	Graphite grey	Colour chart (similar)	RAL 7024
Encapsulation option	No	Protection degree	IP20 in installed state
Rail	TS 35		

Assembly properties

Number of slots for female connectors of the mounted assembly, max.	18	Number of PCBs, max.	3
Number of connection levels, max.	3	Number of poles, max.	72
Height of components on the PCB (usage of 1 PCB), max.	61.1 mm	Height of components on the PCB (usage of 2 PCB), max.	57.2 mm
Height of components on the PCB (usage of 3 PCB), max.	34.7 mm	Type of assembly of the PCB	double-sided

Mechanical tests

According to Standard	DIN EN 61373:1999 (shock and vibration)	
Test conditions	three housings installed in a row, 200g additional weight per PCB, three PCB mounted	
Proved axles	X, Y, Z	
Shock test	General test advices	All mechanical tests were tested on exemplary 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
Vibration test	Acceleration longitudinal	50 m/s ²
	Test duration	5 hours per axle
	Effective acceleration	7.9 m/s ²
	Test category	1B

CH20M67 B BUS GGY/BK 2019

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Technical data

Thermal tests

Thermal tests	General test advices	All thermal tests were tested on exemplary set-up, or in view of depending regulation. The specified results do not replace approval relevant tests. They are just orientation values.	
	Test conditions	seven housings installed in a row - no spacing	
	Test axles	horizontal	
	Ambient temperature	80 °C	
	Power dissipation, max.	5.7 W	
	Ambient temperature	60 °C	
	Power dissipation, max.	8.1 W	
	Ambient temperature	40 °C	
	Power dissipation, max.	10.8 W	
	Ambient temperature	20 °C	
Power dissipation, max.	13.6 W		

Component properties

Color of clip-on foot	black	Cut out in clip-on foot area as preparation for	BUS-contact, contact not included!
Number of connection levels, max.	3		

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	Yes	Customer specific order process	See guideline under downloads
Processing possibilities	Laser processing		

Classifications

ETIM 8.0	EC001031	ETIM 9.0	EC001031
ECLASS 11.0	27-18-27-92	ECLASS 12.0	27-18-27-92
ECLASS 13.0	27-19-06-01		

Important note

Product information	Circuit board contour, restricted zones, and other information for the design in of the circuit board can be found in the category connection technology under the corresponding male headers in the downloads.
---------------------	---

Approvals

ROHS	Conform
------	---------

CH20M67 B BUS GGY/BK 2019

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Downloads

Engineering Data	CAD data – PCB_position_70144_LP-POSITION_67MM CAD data – Pin_header_pin_length_CH20M_A_OV_PCB-SHL_70315 CAD data – STEP
User Documentation	Guideline customerspecific housings Guideline kundenspezifische Gehäuse
Catalogues	Catalogues in PDF-format
Brochures	FL ANALO.SIGN.CONV. EN MB DEVICE MANUF. EN FL MACHINE SAFETY EN FL 72H SAMPLE SER EN PO OMNIMATE EN

CH20M67 B BUS GGY/BK 2019

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

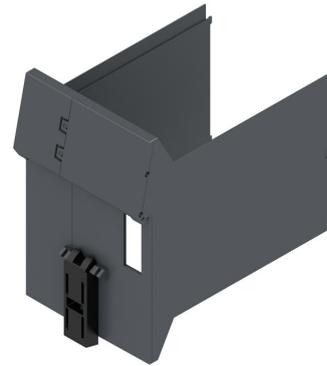
www.weidmueller.com

Drawings

Product image

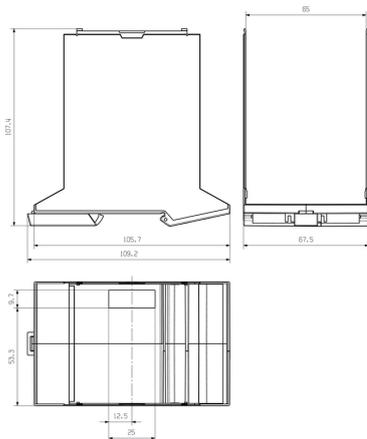


Product benefits



Base element including BUS cut-out

Dimensioned drawing



CH20M67 B BUS GGY/BK 2019

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Accessories

Bus contact block - Middle solder flange



The integrated rail bus for the modular electronics housing system

When supplying, connecting or distributing within modular applications, the rail bus can replace the tedious individual wiring process with a flexible and uninterrupted system-wide solution.

The system bus is securely integrated within the 35-mm standard mounting rail. The SMD-bus contact block can be reflow-soldered so that it can be completely automatically processed during the component assembly. The resistant, gold-plated contact surfaces ensure a permanent and reliable contact for all housing widths.

- **Unlimited scalability** The integrated connection solution covers all system widths: from the 6-mm slice to the 67-mm large-area housing.
- **Easy to service during installation** It's easy to replace a module, even in existing modules groups – without any influence on the neighbouring modules.
- **Universal integration** The uninterrupted system bus is securely integrated within the 35-mm standard mounting rail.
- **Maximum availability** Five fully-galvanized and partially gold-plated twin-arched contacts are used to establish a permanent contact to the rail bus. THR solder flanges ensure that the connection to the circuit board is stable.

General ordering data

Type	SR-SMD 4.50/05/90LFM 3. ...	Version	Product data	Packaging
Order No.	1155880000	PCB plug-in connector, Bus-contact block for CH20M12-67, Middle	IEC: 160 V	Tape
GTIN (EAN)	4032248942305	solder flange, THT/THR solder connection, Number of poles: 5, 180°	UL: 300 V / 5 A	
Qty.	300 pc(s).	Solder pin length (l): 3.2 mm, Gold-plated, black		
Type	SR-SMD 4.50/05/90LFM 3. ...	Version	Product data	Packaging
Order No.	1155870000	PCB plug-in connector, Bus-contact block for CH20M12-67, Middle	UL: 300 V / 5 A	Box
GTIN (EAN)	4032248942510	solder flange, THT/THR solder connection, Number of poles: 5, 180°		
Qty.	78 pc(s).	Solder pin length (l): 3.2 mm, Gold-plated, black		

CH20M67 B BUS GGY/BK 2019

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Accessories

Bus contact block - Solder flange



The integrated rail bus for the modular electronics housing system

When supplying, connecting or distributing within modular applications, the rail bus can replace the tedious individual wiring process with a flexible and uninterrupted system-wide solution.

The system bus is securely integrated within the 35-mm standard mounting rail. The SMD-bus contact block can be reflow-soldered so that it can be completely automatically processed during the component assembly. The resistant, gold-plated contact surfaces ensure a permanent and reliable contact for all housing widths.

- **Unlimited scalability** The integrated connection solution covers all system widths: from the 6-mm slice to the 67-mm large-area housing.
- **Easy to service during installation** It's easy to replace a module, even in existing modules groups – without any influence on the neighbouring modules.
- **Universal integration** The uninterrupted system bus is securely integrated within the 35-mm standard mounting rail.
- **Maximum availability** Five fully-galvanized and partially gold-plated twin-arched contacts are used to establish a permanent contact to the rail bus. THR solder flanges ensure that the connection to the circuit board is stable.

General ordering data

Type	SR-SMD 4.50/05/90LF 1.5 ...	Version	Product data	Packaging
Order No.	1155900000	PCB plug-in connector, Bus-contact block for CH20M12-67, Solder flange, THT/THR solder connection, Number of poles: 5, 180°, Solder pin length (l): 1.5 mm, Gold-plated, black	IEC: 160 V UL: 300 V / 5 A	Tape
GTIN (EAN)	4032248942381			
Qty.	300 pc(s).			
Type	SR-SMD 4.50/05/90LF 1.5 ...	Version	Product data	Packaging
Order No.	1155890000	PCB plug-in connector, Bus-contact block for CH20M12-67, Solder flange, THT/THR solder connection, Number of poles: 5, 180°, Solder pin length (l): 1.5 mm, Gold-plated, black	UL: 300 V / 5 A	Box
GTIN (EAN)	4032248942527			
Qty.	78 pc(s).			