

**OMNIMATE Housing - series CH20M  
BHZ 5.00/02/90LH BK/BL**

**Weidmüller Interface GmbH & Co. KG**  
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**Naturally, the CH20M system also shows its perfection in the peripheral interface.**

When considering design options, processing, usability, reliability and security, the PCB terminals or pin headers and connectors are just as important in the practice as the entire system.

In every sector, the connection technology is at the top of its class.

- **100% non-interchangeable** Together with the captive, unique "Auto-Set" encoding, the uniquely detectable markers on the plug connection and in the front ensure misconnection-proof assignment of the connections. Both markers can be printed as cards in a PrintJet and then permanently snapped on.
- **100% intuitive** Quick and easy operation by means of an integrated colour-coded release lever with grip tab and including a screwdriver pocket.
- **100% safe** Touch protection for the male and female header on both sides
- **100% efficient** All PCB connection elements are reflow compatible
- **100% time and cost savings** During the installation: the quick all-purpose "Multi-Tool" screw head ensures a secure contact, user-friendly operation and less complexity. Additional features, such as the "Wire ready" technology, enable you to minimize wiring costs and increase customer satisfaction.

Simple, component-friendly unplugging of the female plug using the integrated release lever.

**General ordering data**

Type	BHZ 5.00/02/90LH BK/BL
Order No.	<a href="#">1069360000</a>
Version	PCB plug-in connector, female plug, 5.00 mm, No. of poles: 2, 90°, Clamping yoke connection, Clamping range, rated connection, max.: 3.31 mm², Box
GTIN (EAN)	4032248824625
Qty.	150 pc(s).
Product data	IEC: 400 V / 0.2 - 2.5 mm² UL: 300 V / 10 A / AWG 26 - AWG 12
Packaging	Box

Erstellungs-Datum December 17, 2013 9:37:16 AM CET

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## Technische Daten

### Dimensions and weights

Length	14.6 mm	Width	12.4 mm
Height	29 mm	Net weight	5.173 g

### System parameters

Product family	OMNIMATE Housing - series CH20M	Wire connection method	Clamping yoke connection
Conductor outlet direction	90°	Pitch in mm (P)	5 mm
Pitch in inches (P)	0.197 inch	No. of poles	2
Screwdriver blade	0.6 x 3.5	Screwdriver blade standard	DIN 5264
Tightening torque, min.	0.4 Nm	Tightening torque, max.	0.6 Nm
Clamping screw	M 2.5	Stripping length	8 mm
L1 in mm	5 mm	L1 in inches	0.197 inch

### CSA rating data

Rated voltage (Use group B)	300 V	Rated current (use group B)	10 A
Rated voltage (Use group C)	50 V	Rated current (use group C)	10 A
Rated voltage (use group D)	300 V	Rated current (use group D)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 12

### UL 1059 rating data

Rated voltage (use group B)	300 V	Rated current (use group B)	10 A
Rated voltage (use group C)	50 V	Rated current (use group C)	10 A
Rated voltage (use group D)	300 V	Rated current (use group D)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 12

### Connectable wires

Clamping range, rated connection, min.	0.13 mm <sup>2</sup>	Clamping range, rated connection, max.	3.31 mm <sup>2</sup>
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 <sup>2</sup>	Solid, max. H05(07) V-U	2.5 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.2 mm <sup>2</sup>	w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm <sup>2</sup>
w. wire end ferrule, DIN 46228 pt 1, max.	2.5 mm <sup>2</sup>	w. plastic collar ferrule, DIN 46228 pt 4, min.	0.25 mm <sup>2</sup>
w. plastic collar ferrule, DIN 46228 pt 4, max.	2.5 mm <sup>2</sup>		

### Material data

UL 94 flammability rating	V-0	Insulating material	PA 66 GV30
Colour	Black	Contact surface	tinned

### Rated data according to DIN IEC

Rated current, max. no. of poles (Tu=20°C)	10 A	Rated current, number of poles (Tu=40°C), max.	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	4 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

**Datenblatt****OMNIMATE Housing - series CH20M  
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eClass 6.2	27-26-07-04	eClass 7.1	27-44-04-02
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**Approvals**

Approvals



ROHS	Conform
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**Zeichnungen**