

BLDT 5.08/09/-B SN OR BX
Weidmüller Interfaces GmbH & Co. KG

Postfach 3030

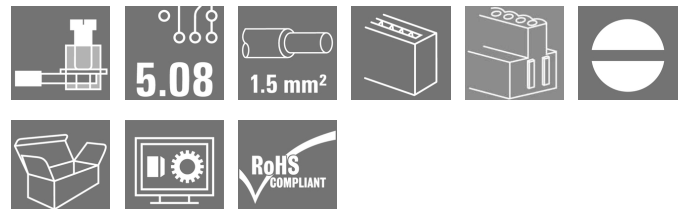
32760 Detmold

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info@weidmueller.com

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Product image


Female plugs with two clamping-yoke screw connections per pole for wire connections with 90° and 270° outlet directions. The female plugs provide space for labelling and can be coded.

General ordering data

Version	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 9, 90°/270°, Clamping yoke connection, Clamping range, max. : 3.31 mm², Box
Order No.	1651810000
Type	BLDT 5.08/09/-B SN OR BX
GTIN (EAN)	4008190400491
Qty.	30 pc(s).
Product data	IEC: 400 V / 14 A / 0.2 - 2.5 mm² UL: 300 V / 10 A / AWG 26 - AWG 12
Packaging	Box

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Technical data

Dimensions and weights

Depth	26.8 mm	Depth (inches)	1.055 inch
Height	23.3 mm	Height (inches)	0.917 inch
Width	47.72 mm	Width (inches)	1.879 inch
Net weight	29.72 g		

System Parameters

Product family	OMNIMATE Signal - series BL/SL 5.08		
Type of connection	Field connection		
Wire connection method	Clamping yoke connection		
Pitch in mm (P)	5.08 mm		
Pitch in inches (P)	0.2 inch		
Conductor outlet direction	90°/270°		
Number of poles	9		
L1 in mm	40.64 mm		
L1 in inches	1.6 inch		
Number of rows	1		
Pin series quantity	1		
Rated cross-section	2.5 mm ²		
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch		
Touch-safe protection acc. to DIN VDE 0470	IP 20		
Protection degree	IP20		
Volume resistance	≤5 mΩ		
Can be coded	Yes		
Stripping length	7 mm		
Clamping screw	M 2.5		
Screwdriver blade	0.6 x 3.5		
Screwdriver blade standard	DIN 5264		
Plugging cycles	25		
Plugging force/pole, max.	10 N		
Pulling force/pole, max.	7.5 N		
Tightening torque	Torque type	Wire connection	
	Usage information	Tightening torque	min. 0.4 Nm max. 0.5 Nm

Material data

Insulating material	PBT	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	IIIa
Comparative Tracking Index (CTI)	≥ 200	UL 94 flammability rating	V-0
Contact material	Copper alloy	Contact surface	tinned
Layer structure of plug contact	4...8 µm Sn hot-dip tinned	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C	Temperature range, installation, min.	-25 °C
Temperature range, installation, max.	100 °C		

Conductors suitable for connection

Clamping range, min.	0.13 mm ²
Clamping range, max.	3.31 mm ²
Wire connection cross section AWG, min.	AWG 26

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Technical data

Wire connection cross section AWG, max. AWG 12

Solid, min. H05(07) V-U 0.2 mm²Solid, max. H05(07) V-U 2.5 mm²Flexible, min. H05(07) V-K 0.2 mm²Flexible, max. H05(07) V-K 2.5 mm²w. plastic collar ferrule, DIN 46228 pt 4, 0.2 mm² min.w. plastic collar ferrule, DIN 46228 pt 4, 1.5 mm² max.w. wire end ferrule, DIN 46228 pt 1, 0.2 mm² min.w. wire end ferrule, DIN 46228 pt 1, 1.5 mm² max.

Plug gauge in accordance with EN 60999 a x b; ø 2.4 mm x 1.5 mm ; 2.4 mm

Clampable conductor

Cross-section for conductor connection	Type	fine-wired	
	nominal	0.5 mm ²	
wire end ferrule	Stripping length	nominal	6 mm
	Recommended wire-end ferrule	H0.5/6	
Cross-section for conductor connection	Type	fine-wired	
	nominal	0.75 mm ²	
wire end ferrule	Stripping length	nominal	6 mm
	Recommended wire-end ferrule	H0.75/6	
Cross-section for conductor connection	Type	fine-wired	
	nominal	1 mm ²	
wire end ferrule	Stripping length	nominal	6 mm
	Recommended wire-end ferrule	H1.0/6	
Cross-section for conductor connection	Type	fine-wired	
	nominal	1.5 mm ²	
wire end ferrule	Stripping length	nominal	7 mm
	Recommended wire-end ferrule	H1.5/7	

Reference text The outside diameter of the plastic collar should not be larger than the pitch (P), Length of ferrules is to be chosen depending on the product and the rated voltage.

Rated data acc. to IEC

tested acc. to standard

IEC 60664-1, IEC 61984

Rated current, max. number of poles (Tu=20°C)

11.5 A

Rated current, max. number of poles (Tu=40°C)

10 A

Rated voltage for surge voltage class / pollution degree III/2

320 V

Rated impulse voltage for surge voltage class/ pollution degree II/2

4 kV

Rated impulse voltage for surge voltage class/ contamination degree III/3

4 kV

Rated current, min. number of poles (Tu=20°C)

14 A

Rated current, min. number of poles (Tu=40°C)

12 A

Rated voltage for surge voltage class / pollution degree II/2

400 V

Rated voltage for surge voltage class / pollution degree III/3

250 V

Rated impulse voltage for surge voltage class/ pollution degree III/2

4 kV

Short-time withstand current resistance

3 x 1s with 120 A

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Technical data

Rated data acc. to CSA

Institute (CSA)



Certificate No. (CSA)

www.weidmueller.com

12400-365

Rated voltage (Use group B / CSA)	300 V
Rated current (Use group B / CSA)	10 A
Wire cross-section, AWG, min.	AWG 26
Reference to approval values	Specifications are maximum values, details - see approval certificate.

Rated voltage (Use group D / CSA)	300 V
Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, max.	AWG 12

Packing

Packaging	Box	VPE length	349 mm
VPE width	135 mm	VPE height	31 mm

Classifications

ETIM 6.0	EC002638	ETIM 7.0	EC002638
ETIM 8.0	EC002638	ECLASS 9.0	27-44-03-09
ECLASS 9.1	27-44-03-09	ECLASS 10.0	27-44-03-09
ECLASS 11.0	27-46-02-02	ECLASS 12.0	27-46-02-02

Important note

IPC conformity	Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.
Notes	• Additional variants on request • Gold-plated contact surfaces on request • Rated current related to rated cross-section & min. No. of poles. • Wire end ferrule without plastic collar to DIN 46228/1 • Wire end ferrule with plastic collar to DIN 46228/4 • P on drawing = pitch • Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards. • Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

Approvals

Approvals



ROHS

Conform

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Technical data

Downloads

Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Engineering Data	CAD data – STEP
Engineering Data	WSCAD
Catalogues	Catalogues in PDF-format
Brochures	FL DRIVES EN MB DEVICE MANUF. EN FL DRIVES DE FL BUILDING SAFETY EN FL APPL LED LIGHTING EN FL INDUSTR.CONTROLS EN FL MACHINE SAFETY EN FL HEATING ELECTR EN FL APPL INVERTER EN FL BASE STATION EN FL ELEVATOR EN FL POWER SUPPLY EN FL 72H SAMPLE SER EN PO OMNIMATE EN PO OMNIMATE EN

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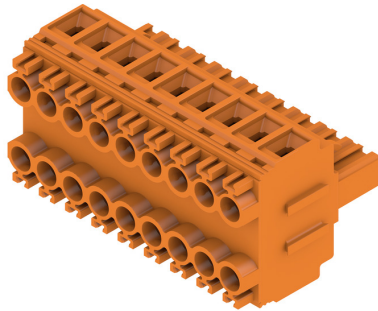
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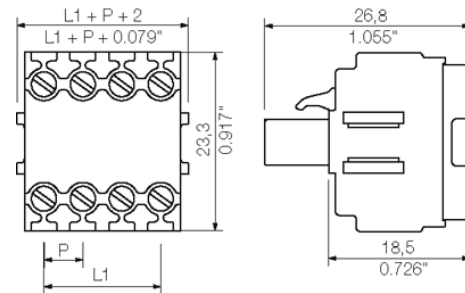
Drawings

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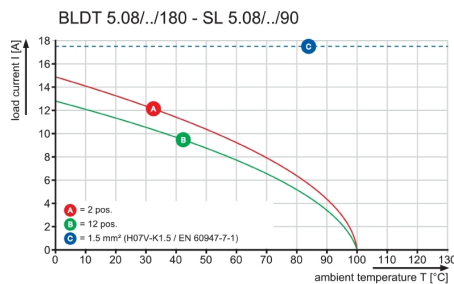
Product image



Dimensional drawing

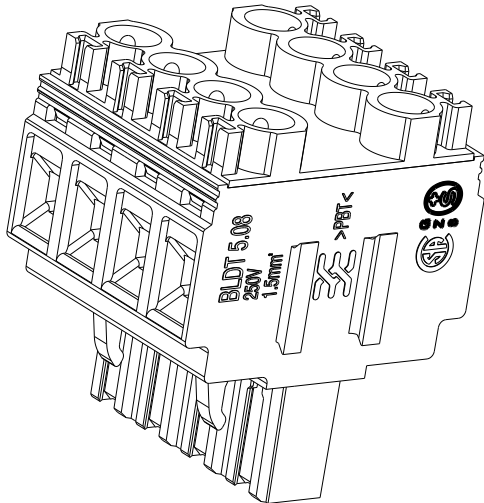
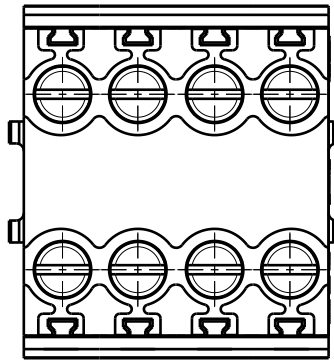
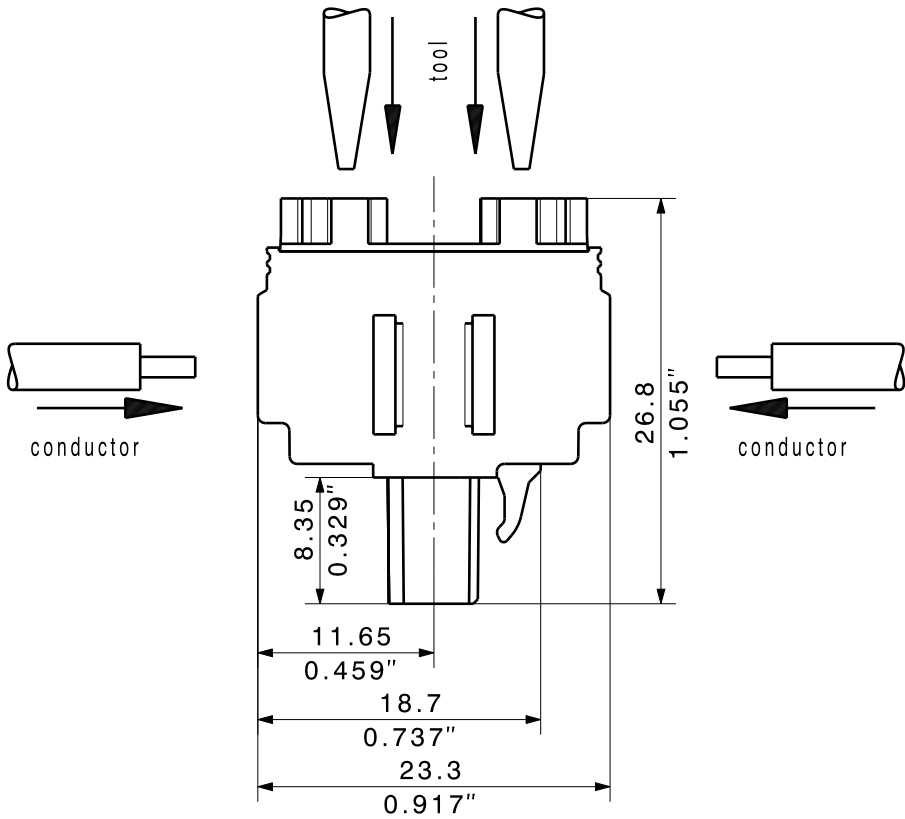
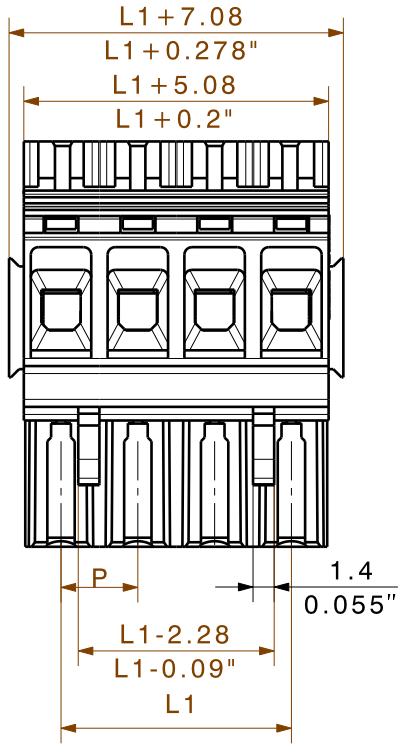


Graph



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THE GERMAN VERSION IS BINDING



For the mounting of PCBs, it should be noted that the rated data stated here relates only to the PCB components alone.
The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to IEC 664 / VDE 0110.
The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller PCB components are tested to the DIN EN 61984 standard, and are valid for its field of application.
Provided that the components are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

12	55,88	2,200
11	50,80	2,000
10	45,72	1,800
9	40,64	1,600
8	35,56	1,400
7	30,48	1,200
6	25,40	1,000
5	20,32	0,800
4	15,24	0,600
3	10,16	0,400
2	5,08	0,200
n	L1 [mm]	L1 [Inch]

SHOWN: BLDT 5.08/04B

GENERAL TOLERANCE: DIN ISO 2768-m		78271/5 07.10.14 AMANN_A 00		CAT.NO.:	
		MODIFICATION			
		DATE	NAME	BLDT 5.08/../(B) Buchsenleiste SOCKET BLOCK	
SCALE: 2:1		DRAWN	HELIS_MA		
SUPERSEDES: -		RESPONSIBLE	HERTEL_S		
SUPERSEDED BY: .		CHECKED	07.10.2014 HELIS_MA		
APPROVED		LANG_T	PRODUCT FILE: BLDT 5.08		7129

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