Data sheet

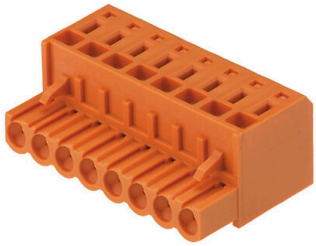
BLZF 5.08/20/180 SN BK BX

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

www.weidmueller.com

Do not use product for new developments

Product image



Similar to illustration

Female plugs with tension-clamp wire connection system, straight 180° outlet direction. 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: 20, 180°, Tension-clamp connection, Clamping range, max. : 3.31 mm², Box
Order No.	1707870000
Type	BLZF 5.08/20/180 SN BK BX
GTIN (EAN)	4008190316877
Qty.	18 items
Product data	IEC: 400 V / 17 A / 0.2 - 2.5 mm² UL: 300 V / 15 A / AWG 26 - AWG 12
Packaging	Box
Delivery status	Discontinued
Available until	2023-07-30T00:00:00+02:00
Alternative product	BLF 5.08HC/20/180 SN BK BX

Creation date 23.02.2026 03:51:12 MEZ

Data sheet

BLZF 5.08/20/180 SN BK BX

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Technical data

Approvals

Approvals	
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UR)	E60693
Certificate No. (cURus)	E60693

Dimensions and weights

Depth	25.1 mm	Depth (inches)	0.9882 inch
Height	15.2 mm	Height (inches)	0.5984 inch
Width	101.6 mm	Width (inches)	4 inch
Net weight	36.89 g		

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

System Parameters

Product family	OMNIMATE Signal - series BL/SL 5.08	Type of connection	Field connection
Wire connection method	Tension-clamp connection	Pitch in mm (P)	5.08 mm
Pitch in inches (P)	0.200 "	Conductor outlet direction	180°
Number of poles	20	L1 in mm	96.52 mm
L1 in inches	3.800 "	Number of rows	1
Pin series quantity	1	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged/ IP10 unplugged	Protection degree	IP20
Volume resistance	≤5 mΩ	Can be coded	Yes
Stripping length	10 mm	Screwdriver blade	0.6 x 3.5
Screwdriver blade standard	DIN 5264-A	Plugging cycles	25
Pulling force/pole, max.	2 N		

Material data

Insulating material	PBT	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	IIIa
Comparative Tracking Index (CTI)	≥ 200	Insulation resistance	≥ 108 Ω
Moisture Level (MSL)		UL 94 flammability rating	V-0
Contact material	Cu-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 mm²	Clamping range, max.	3.31 mm²
Wire connection cross section AWG, min.	AWG 26	Wire connection cross section AWG, max.	AWG 12

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Solid, min. H05(07) V-U	0.2 mm²	Solid, max. H05(07) V-U	2.5 mm²
Flexible, min. H05(07) V-K	0.2 mm²	Flexible, max. H05(07) V-K	2.5 mm²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.2 mm²	w. plastic collar ferrule, DIN 46228 pt 4, max.	1.5 mm²
w. wire end ferrule, DIN 46228 pt 1, min.	0.2 mm²	w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm²
Plug gauge in accordance with EN 60999 a x b; ø	2.8 mm x 2.0 mm	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, min. number of poles (Tu=20°C)	17 A
Rated current, max. number of poles (Tu=20°C)	12.5 A	Rated current, min. number of poles (Tu=40°C)	14.5 A
Rated current, max. number of poles (Tu=40°C)	11 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	Short-time withstand current resistance	3 x 1s with 120 A

Rated data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	200039-1461395
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	15 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 12
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Rated data acc. to UL 1059

Institute (UR)	UR	Certificate No. (UR)	E60693
Institute (cURus)	CURUS	Certificate No. (cURus)	E60693
Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group D / UL 1059)	300 V
Rated current (Use group B / UL 1059)	15 A	Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 12
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packing

Packaging	Box	VPE length	350.00 mm
VPE width	136.00 mm	VPE height	33.00 mm

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.

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Technical data

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. • In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load • Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

Classifications

ETIM 8.0	EC002638	ETIM 9.0	EC002638
ETIM 10.0	EC002638	ECLASS 14.0	27-46-02-02
ECLASS 15.0	27-46-02-02		

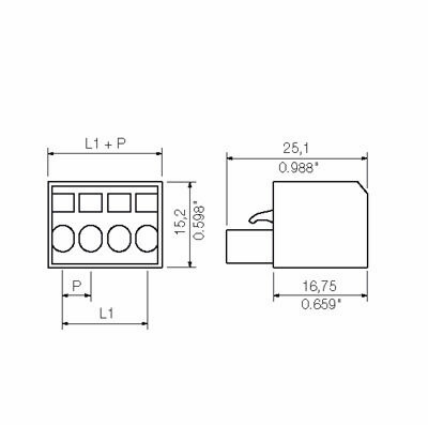
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Drawings

Dimensional drawing



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Accessories

Strain reliefs



For frequent load changes: the "trailer coupling" for plug-in connectors.
The strain relief can do more than just relieve the strain on conductors:
Simply clip onto the plug and
• bundle conductors
• guide cables
• use as a connection and disconnection aid
No damage to the connecting points, clear, tidy wiring and easy to handle.
User advantages: permanent heavy-duty connections for harsh industrial environments and convenient operation ensure improved system availability.

General ordering data

Type	BLZF/SLZF ZE04 OR BX	Version
Order No.	1714930000	PCB plug-in connector, Accessories, Strain relief, orange, Number of
GTIN (EAN)	4008190989156	poles: 4
Qty.	50 ST	
Type	BLZF/SLZF ZE08 OR BX	Version
Order No.	1714940000	PCB plug-in connector, Accessories, Strain relief, orange, Number of
GTIN (EAN)	4008190989163	poles: 8
Qty.	50 ST	
Type	BLZF/SLZF ZE04 BK BX	Version
Order No.	1746300000	PCB plug-in connector, Accessories, Strain relief, black, Number of
GTIN (EAN)	4008190987886	poles: 4
Qty.	50 ST	

Adapters for rail mounting



Clip on and use!
From the circuit board in the control cabinet: snap-on or mounting feet form the link between plug-in connectors and terminal rails.
Compatible with all standard sizes: TS 15 or TS 35.
Combination foot or variations available.
The quick alternative to screw connections: unbeatable ease of installation and service.
The mounting foot for the terminal rails allows the universal use of pluggable connection systems on the module, the enclosure and the control cabinet and avoids patchwork solutions.

General ordering data

Type	KF BLZF/SLZF/BLIDC	Version
Order No.	1760070000	PCB plug-in connector, Accessories, Clip-in foot, orange
GTIN (EAN)	4032248029204	
Qty.	20 ST	
Type	RF 15 BLZF/SLZF/BLIDC	Version
Order No.	1760080000	PCB plug-in connector, Accessories, Clip-in foot, orange, Number of
GTIN (EAN)	4032248029211	poles: 1
Qty.	20 ST	

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Accessories

Coding elements



Only connects what is supposed to be connected: the right connection at the right place.
Coding elements and locking devices clearly assign connecting elements during the manufacturing process and operation
The coding elements and locking devices are inserted prior to assembly or during the cable assembly phase.
The Weidmüller alternative: configure online using the variant configurator to precode prior to delivery.
Incorrect assembly on the circuit board and incorrect plugging of connecting elements is no longer possible.
The advantage: no troubleshooting during manufacture and no operational errors by the user.

General ordering data

Type	BLZ/SL KO BK BX	Version
Order No.	1545710000	PCB plug-in connector, Accessories, Coding element, black, Number
GTIN (EAN)	4008190087142	of poles: 1
Qty.	50 ST	

Type	BLZ/SL KO OR BX	Version
Order No.	1573010000	PCB plug-in connector, Accessories, Coding element, orange, Number
GTIN (EAN)	4008190048396	of poles: 1
Qty.	100 ST	

Auxiliary tools



More intelligent. More efficient. Quicker.
Auxiliary tools simplify the process of connecting and configuring the connection components:

- Assembly blocks for socket connectors with IDC contacts (type BL-IDC) can be used in machines such as toggle lever presses. All conductors are connected at the same time.
- Unlocking and dismantling tools release the crimp contacts in crimped plug-in connectors (type BLC & BLAC)
- Operating levers open individual clamping points on plug-in tension clamp connectors

For better, more rapid working progress
The result: efficient, professional working progress.

General ordering data

Type	BLZF BW-S	Version
Order No.	1764080000	PCB plug-in connector
GTIN (EAN)	4032248060467	
Qty.	100 ST	

Type	BLZF BW-B	Version
Order No.	1764090000	PCB plug-in connector
GTIN (EAN)	4032248298679	
Qty.	100 ST	