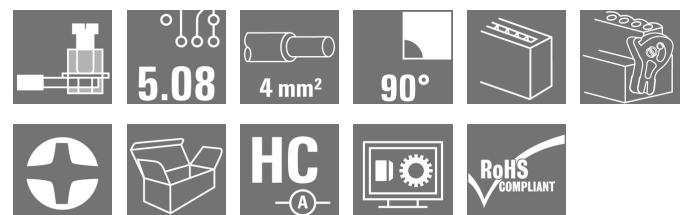


BLZP 5.08HC/12/90LR SN OR BX

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

www.weidmueller.com

Product image

Female plugs with clamping-yoke connection for connecting wires with a right-angle (90° or 270°) outlet direction. The female connectors provide space for labelling and can be coded. Fastened by means of a flange or release latch. They also provide an integrated plus/minus screw, protection against faulty insertion of the wire, and they are delivered with open clamping yokes. HC = High Current.

General ordering data

Version	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 12, 90°, Clamping yoke connection, Clamping range, max. : 4 mm ² , Box
Order No.	1087350000
Type	BLZP 5.08HC/12/90LR SN OR BX
GTIN (EAN)	4032248854233
Qty.	24 pc(s).
Product data	IEC: 400 V / 23 A / 0.2 - 4 mm ² UL: 300 V / 20 A / AWG 26 - AWG 12
Packaging	Box

Creation date September 15, 2022 11:32:51 PM CEST

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Technical data**Dimensions and weights**

Depth	29.5 mm	Depth (inches)	1.161 inch
Height	17.7 mm	Height (inches)	0.697 inch
Width	70.78 mm	Width (inches)	2.787 inch
Net weight	21 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°								
Number of poles	12								
L1 in mm	55.88 mm								
L1 in inches	2.2 inch								
Number of rows	1								
Pin series quantity	1								
Rated cross-section	4 mm ²								
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch								
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, PH 1, PZ 1								
Screwdriver blade standard	DIN 5264, ISO 8764/2-PH, ISO 8764/2-PZ								
Plugging cycles	25								
Plugging force/pole, max.	10 N								
Pulling force/pole, max.	9 N								
Tightening torque	<table border="1"> <tr> <td>Torque type</td> <td>Wire connection</td> </tr> <tr> <td>Usage information</td> <td> <table border="1"> <tr> <td>Tightening torque</td> <td>min. 0.4 Nm</td> </tr> <tr> <td></td> <td>max. 0.5 Nm</td> </tr> </table> </td> </tr> </table>	Torque type	Wire connection	Usage information	<table border="1"> <tr> <td>Tightening torque</td> <td>min. 0.4 Nm</td> </tr> <tr> <td></td> <td>max. 0.5 Nm</td> </tr> </table>	Tightening torque	min. 0.4 Nm		max. 0.5 Nm
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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		

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Technical data

Conductors suitable for connection

Clamping range, min.	0.13 mm ²	Clamping range, max.	4 mm ²
Wire connection cross section AWG, min.	AWG 30	Wire connection cross section AWG, max.	AWG 12
Solid, min. H05(07) V-U	0.2 mm ²	Solid, max. H05(07) V-U	4 mm ²
Flexible, min. H05(07) V-K	0.2 mm ²	Flexible, max. H05(07) V-K	4 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.2 mm ²	w. plastic collar ferrule, DIN 46228 pt 4, max.	2.5 mm ²
w. wire end ferrule, DIN 46228 pt 1, min.	0.2 mm ²	w. wire end ferrule, DIN 46228 pt 1, max.	4 mm ²
Plug gauge in accordance with EN 60999 a x b; ø		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.
	2.8 mm x 2.4 mm		

Rated data acc. to IEC

Rated current, min. number of poles (Tu=20°C)	23 A	Rated current, max. number of poles (Tu=20°C)	18 A
Rated current, min. number of poles (Tu=40°C)	21 A	Rated current, max. number of poles (Tu=40°C)	16 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)		Certificate No. (CSA)	
			200039-1121690
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group C / CSA)	50 V
Rated voltage (Use group D / CSA)	300 V	Rated current (Use group B / CSA)	20 A
Rated current (Use group D / CSA)	20 A	Wire cross-section, AWG, min.	AWG 30
Wire cross-section, AWG, max.		Reference to approval values	Specifications are maximum values, details - see approval certificate.
	AWG 12		

Packing

Packaging	Box	VPE length	349 mm
VPE width	136 mm	VPE height	34 mm

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Technical data

Type tests

Test: Durability of markings	Standard	DIN EN 61984 section 7.3.2 / 09.02 taking pattern from DIN EN 60068-2-70 / 07.96	
	Test	mark of origin, rated voltage, rated cross-section, type of material	
	Evaluation	available	
	Test	durability	
	Evaluation	passed	
	Test: Misengagement (Non-interchangeability)	DIN EN 60512-13-5 / 11.06, IEC 60512-13-5 / 02.06	
Test: Clampable cross section	Standard	180° turned with coding elements	
	Test	passed	
	Evaluation	visual examination	
	Test	passed	
	Evaluation	passed	
	Standard	DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN EN 60947-1 section 8.2.4.5.1 / 12.02	
Test for damage to and accidental loosening of conductors	Conductor type	Type of conductor and conductor cross-section	solid 0.2 mm ²
		Type of conductor and conductor cross-section	stranded 0.2 mm ²
		Type of conductor and conductor cross-section	solid 2.5 mm ²
		Type of conductor and conductor cross-section	stranded 2.5 mm ²
		Type of conductor and conductor cross-section	AWG 26/1
	Evaluation	Type of conductor and conductor cross-section	AWG 26/19
Test for damage to and accidental loosening of conductors		passed	
	Standard	DIN EN 60999-1 section 9.4 / 12.00	
	Requirement	0.2 kg	
	Conductor type	Type of conductor and conductor cross-section	AWG 26/1
		Type of conductor and conductor cross-section	AWG 26/19
	Evaluation	passed	
Test for damage to and accidental loosening of conductors	Requirement	0.3 kg	
	Conductor type	Type of conductor and conductor cross-section	solid 0.5 mm ²
		Type of conductor and conductor cross-section	stranded 0.5 mm ²
		passed	
	Requirement	0.9 kg	
	Conductor type	Type of conductor and conductor cross-section	AWG 12/1
Test for damage to and accidental loosening of conductors		Type of conductor and conductor cross-section	AWG 12/19
	Evaluation	passed	
	Requirement	0.9 kg	
	Conductor type	Type of conductor and conductor cross-section	AWG 12/1
		Type of conductor and conductor cross-section	AWG 12/19
	Evaluation	passed	

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Technical data

Pull-out test	Standard	DIN EN 60999-1 section 9.5 / 12.00	
	Requirement	≥ 10 N	
	Conductor type	Type of conductor and conductor cross-section	AWG 26/1
		Type of conductor and conductor cross-section	AWG 26/19
	Evaluation	passed	
	Requirement	≥ 20 N	
	Conductor type	Type of conductor and conductor cross-section	H05V-U0.5
		Type of conductor and conductor cross-section	H05V-K0.5
	Evaluation	passed	
	Requirement	≥ 60 N	
	Conductor type	Type of conductor and conductor cross-section	H07V-U4.0
		Type of conductor and conductor cross-section	H07V-K4.0
		Type of conductor and conductor cross-section	AWG 12/1
		Type of conductor and conductor cross-section	AWG 12/19
	Evaluation	passed	

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	<ul style="list-style-type: none"> 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

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Technical data**Approvals**

Approvals



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

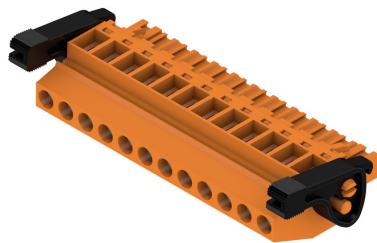
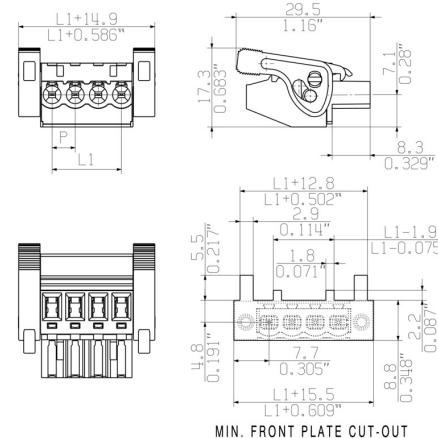
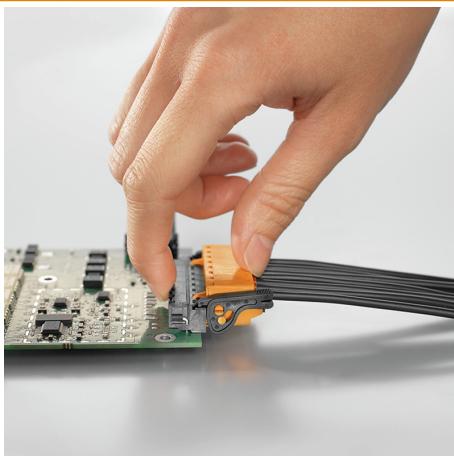
Downloads

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

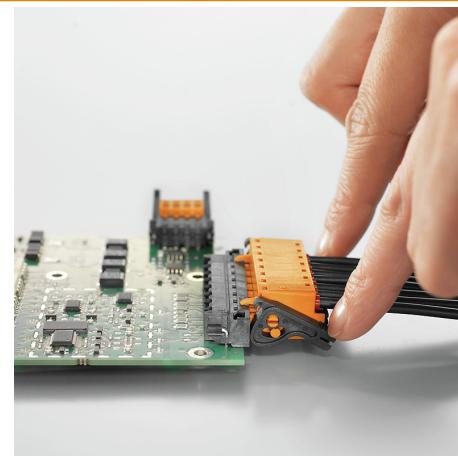
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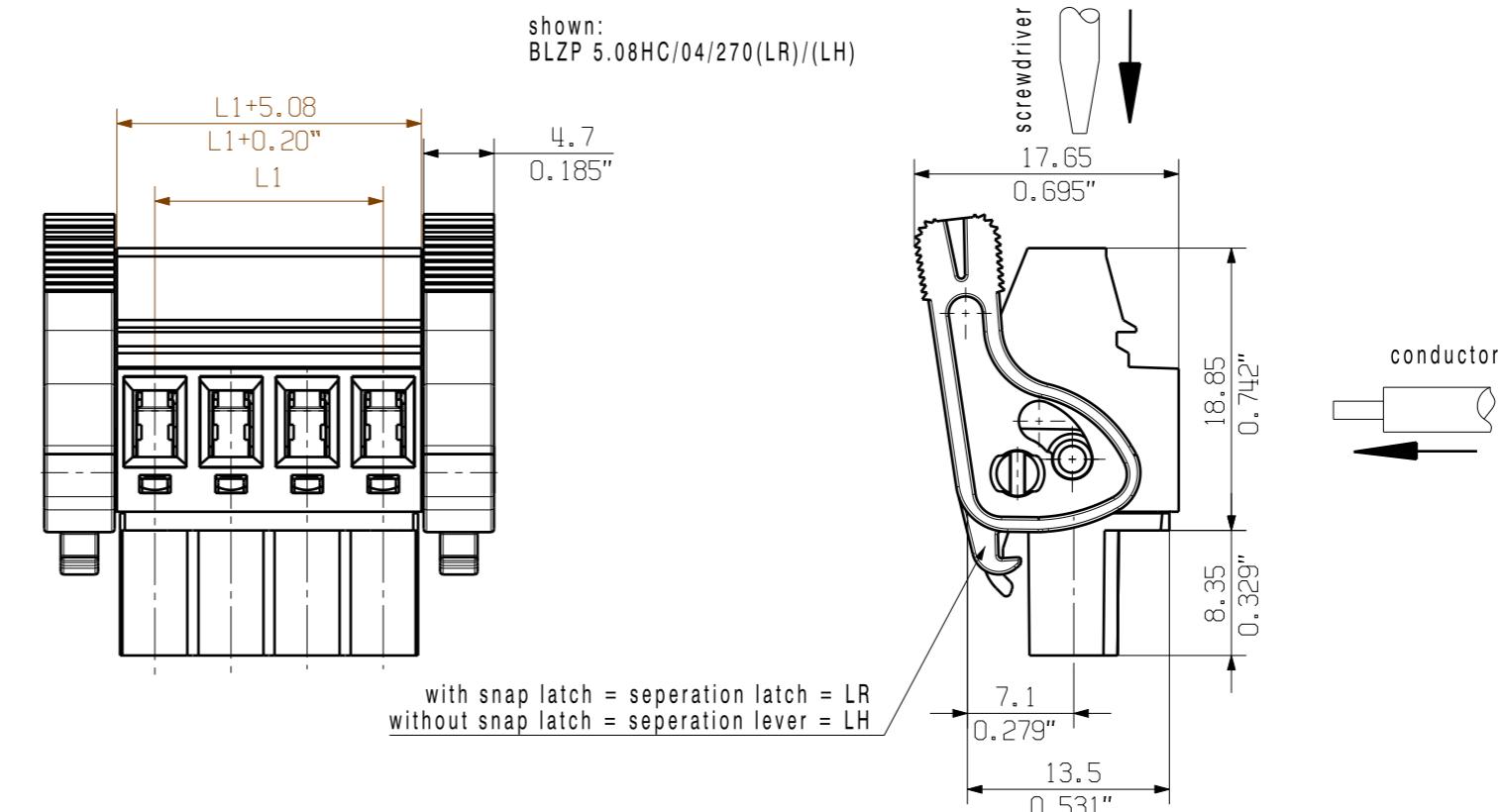
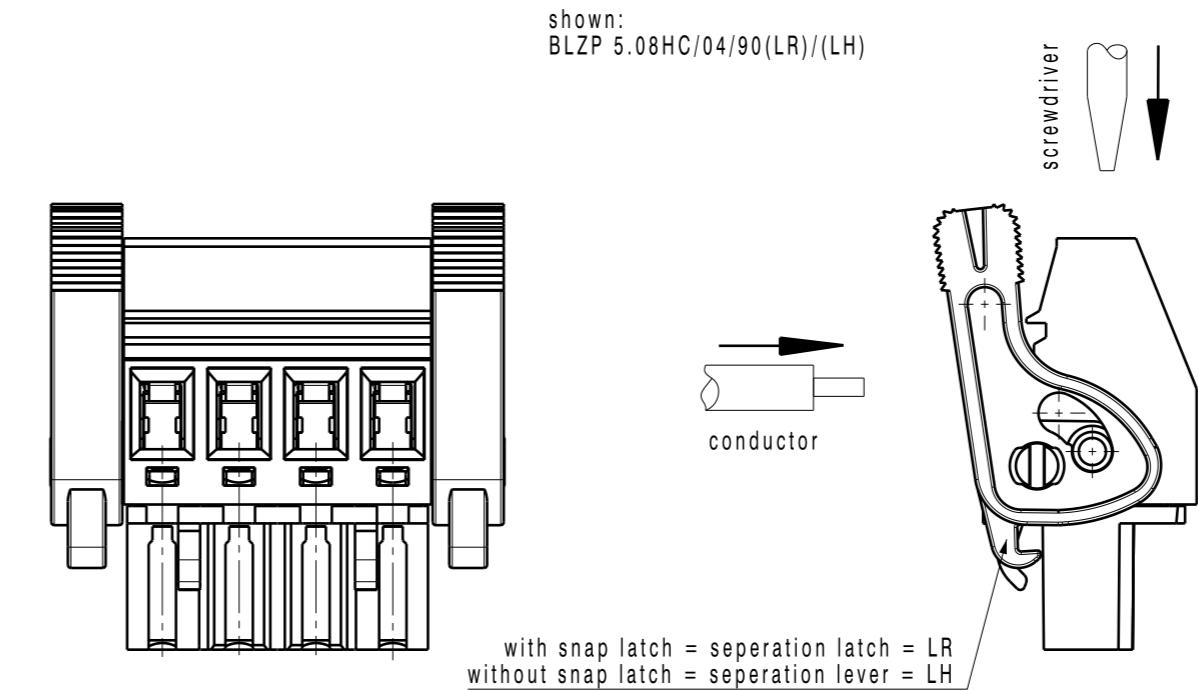
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Drawings**Product image****Dimensional drawing****Product benefits**

Self-locking
Immediately on plugging in

Product benefits

Gentle unlocking
Low mechanical stress



P = 5.08 Raster/pitch
n = Polzahl/no of poles#
n L1 [mm] L1 [inch]

24	116,84	4,60
23	111,76	4,40
22	106,68	4,20
21	101,60	4,00
20	96,52	3,80
19	91,44	3,60
18	86,36	3,40
17	81,28	3,20
16	76,20	3,00
15	71,12	2,80
14	66,04	2,60
13	60,96	2,40
12	55,88	2,20
11	50,80	2,00
10	45,72	1,80
9	40,64	1,60
8	35,56	1,40
7	30,48	1,20
6	25,40	1,00
5	20,32	0,80
4	15,24	0,60
3	10,16	0,40
2	5,08	0,20
n	L1 [mm]	L1 [inch]

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

Weidmüller connectors are tested to the DIN VDE 0627 standard, and are valid for its field of application. Provided that the connectors are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

General tolerance: DIN ISO 2768-mK	. . .	Cat. no.:
	89239/5 01.08.16 HELIS_MA	02
Modification		
	Date	Name
SHOWN: BLZP 5.08HC/04/270(LR)/(LH)	Drawn 10.06.2013	HERTEL_S
Scale: 2:1	Responsible	HERTEL_S
Supersedes: .	Checked 08.08.2016	HELIS_MA
	Approved	LANG_T
Product file: BLZP 5.08HC		

Weidmüller

3 39786 12
Drawing no. 03 of 03 sheets
Issue no.

BLZP 5.08HC/.../.../...
BUCHSENLEISTE
SOCKET BLOCK