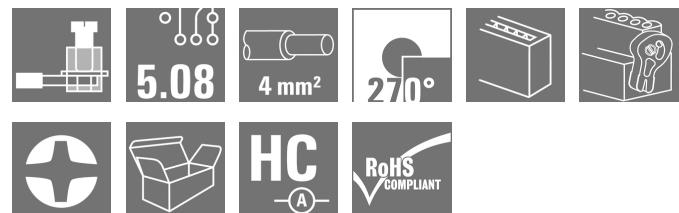


OMNIMATE Signal - series BL/SL 5.08
BLZP 5.08HC/17/270LH SN BK BX

Weidmüller Interface GmbH & Co. KG
 Klingenbergsstraße 26
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
www.weidmueller.com

Product image

Similar to illustration

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

Delivery status	Discontinued
Available until	2014-05-20
Type	BLZP 5.08HC/17/270LH SN BK BX
Order No.	1947390000
Version	PCB plug-in connector, female plug, 5.08 mm, Number of poles: 17, 270°, Clamping yoke connection, Clamping range, max. : 4 mm ² , Box
GTIN (EAN)	4032248623372
Qty.	18 pc(s).
Product data	IEC: 400 V / 23 A / 0.2 - 4 mm ² UL: 300 V / 20 A / AWG 26 - AWG 12

Creation date June 5, 2020 8:40:41 PM CEST

Data sheet

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Technical data**Dimensions and weights**

Width	96.18
Height	17.7 mm
Depth	29.5 mm
Net weight	33.05 g

Width (inches)	3.787 inch
Height (inches)	0.697 inch
Depth (inches)	1.161 inch

System Parameters

Product family	OMNIMATE Signal - series BL/SL 5.08
Wire connection method	Clamping yoke connection
Pitch in inches (P)	0.2 inch
Number of poles	17
L1 in inches	3.2 inch
Pin series quantity	1
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch
Can be coded	Yes
Tightening torque, min.	0.4 Nm
Clamping screw	M 2.5
Screwdriver blade standard	DIN 5264, ISO 8764/2-PH, ISO 8764/2-PZ
Plugging force/pole, max.	10 N

Type of connection	Field connection
Pitch in mm (P)	5.08 mm
Conductor outlet direction	270°
L1 in mm	81.28 mm
Number of rows	1
Rated cross-section	4 MΩ
Volume resistance	≤ 5mΩ
Stripping length	7 mm
Tightening torque, max.	0.5 Nm
Screwdriver blade	0.6 x 3.5, PH 1, PZ 1
Plugging cycles	25
Pulling force/pole, max.	9 N

Material data

Insulating material	PBT
Colour chart (similar)	RAL 9011
Comparative Tracking Index (CTI)	≥ 200
UL 94 flammability rating	V-0
Contact material	Copper alloy
Layer structure of plug contact	4...8 µm Sn hot-dip tinned
Storage temperature, max.	50 °C
Operating temperature, min.	-50 V DC (24,25 V DC + 50 mV) potenzialfrei
Temperature range, installation, min.	-25 V DC (24,25 V DC + 50 mV) potenzialfrei

Colour	black
Insulating material group	IIIa
Insulation strength	≥ 10 ⁸ Ω
GWFI	960 A / 1 mm + 20 A / 2 mm
Contact surface	tinned
Storage temperature, min.	-25 V DC (24,25 V DC + 50 mV) potenzialfrei
Max. relative humidity during storage	70 %
Operating temperature, max.	100 V DC (24,25 V DC + 50 mV) potenzialfrei
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		
Max. clamping range	4 mm ²		

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	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		

Data sheet

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Technical data**Rated data acc. to UL 1059**

Institute (UR)



Certificate No. (UR)

E60693

Institute (cURus)



Certificate No. (cURus)

E60693

Rated voltage (Use group B / UL 1059) 300 V

Rated current (Use group B / UL 1059) 20 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 / UL 1059) 300 V

Rated current (Use group D / UL 1059) 10 A

Wire cross-section, AWG, max. AWG 12

Packing

Packaging

Box

VPE length

0

VPE width

0

VPE height

0

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)

Standard

DIN EN 60512-13-5 / 11.06, IEC 60512-13-5 / 02.06

Test

180° turned with coding elements

Evaluation

passed

Test

visual examination

Evaluation

passed

Test: Clampable cross section

Standard

DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN EN 60947-1 section 8.2.4.5.1 / 12.02

Conductor type

Type of conductor solid 0.2 mm² and conductor cross-sectionType of conductor stranded 0.2 mm² and conductor cross-sectionType of conductor solid 2.5 mm² and conductor cross-sectionType of conductor stranded 2.5 mm² and conductor cross-section

Type of conductor AWG 26/1 and conductor cross-section

Type of conductor AWG 26/19 and conductor cross-section

Evaluation

passed

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Technical data

Test for damage to and accidental loosening of conductors	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	
	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
	Evaluation	passed	
	Requirement	0.9 kg	
Pull-out test	Conductor type	Type of conductor and conductor cross-section	AWG 12/1
		Type of conductor and conductor cross-section	AWG 12/19
	Evaluation	passed	
	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
	Evaluation	passed	
	Requirement	≥120 N	
	Conductor type	Type of conductor and conductor cross-section	AWG 12/1
		Type of conductor and conductor cross-section	AWG 12/19
	Evaluation	passed	
	Requirement	≥200 N	

Classifications

UNSPSC

30-21-18-01

Data sheet

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Technical data

Notes

Notes

- Additional colours 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.

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.

Approvals

Approvals



ROHS

Conform

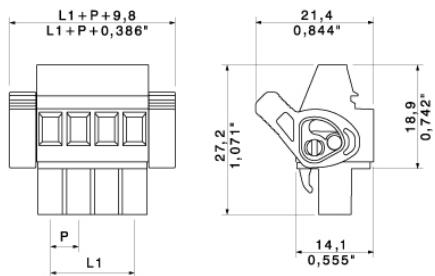
Downloads

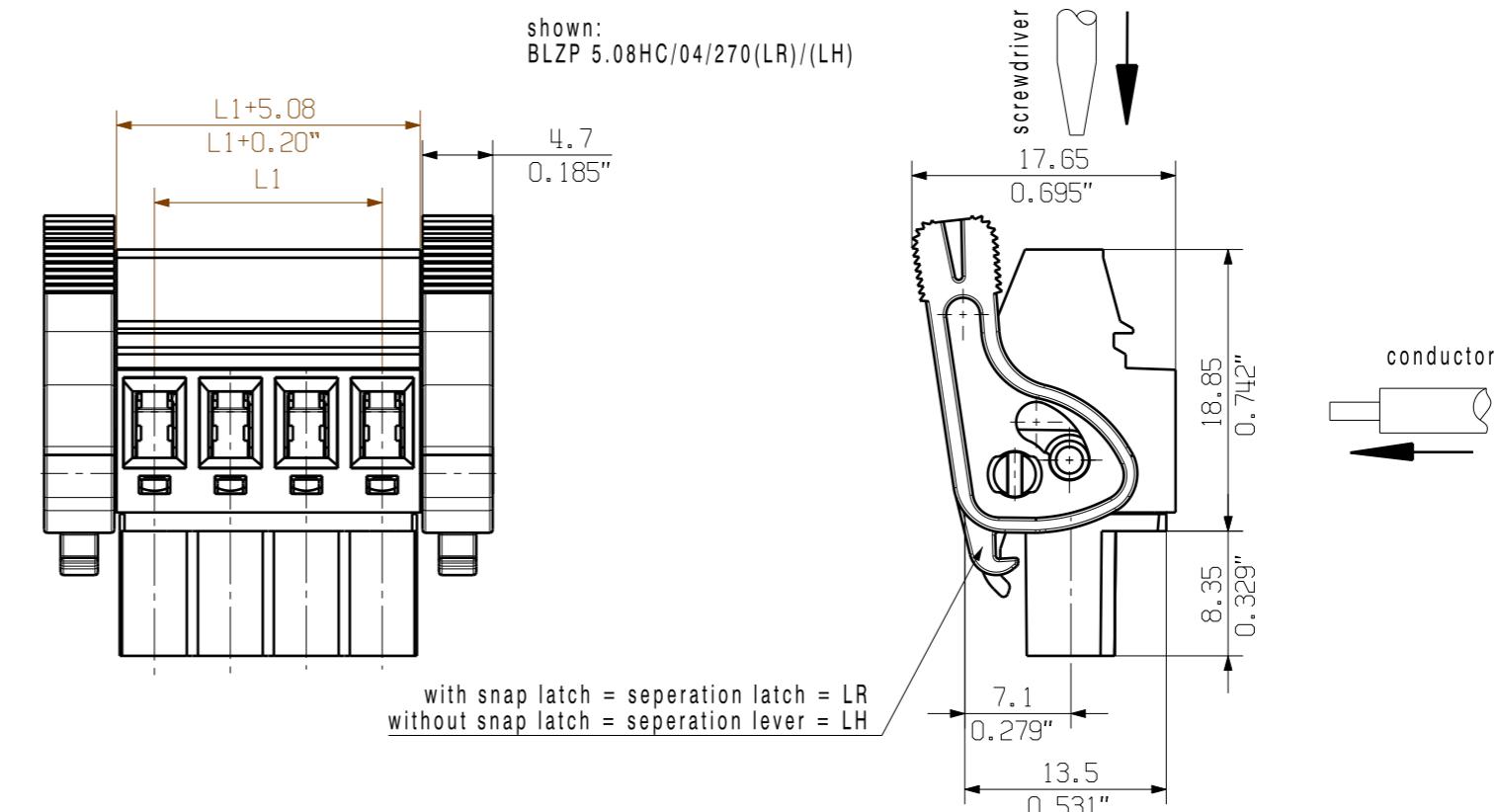
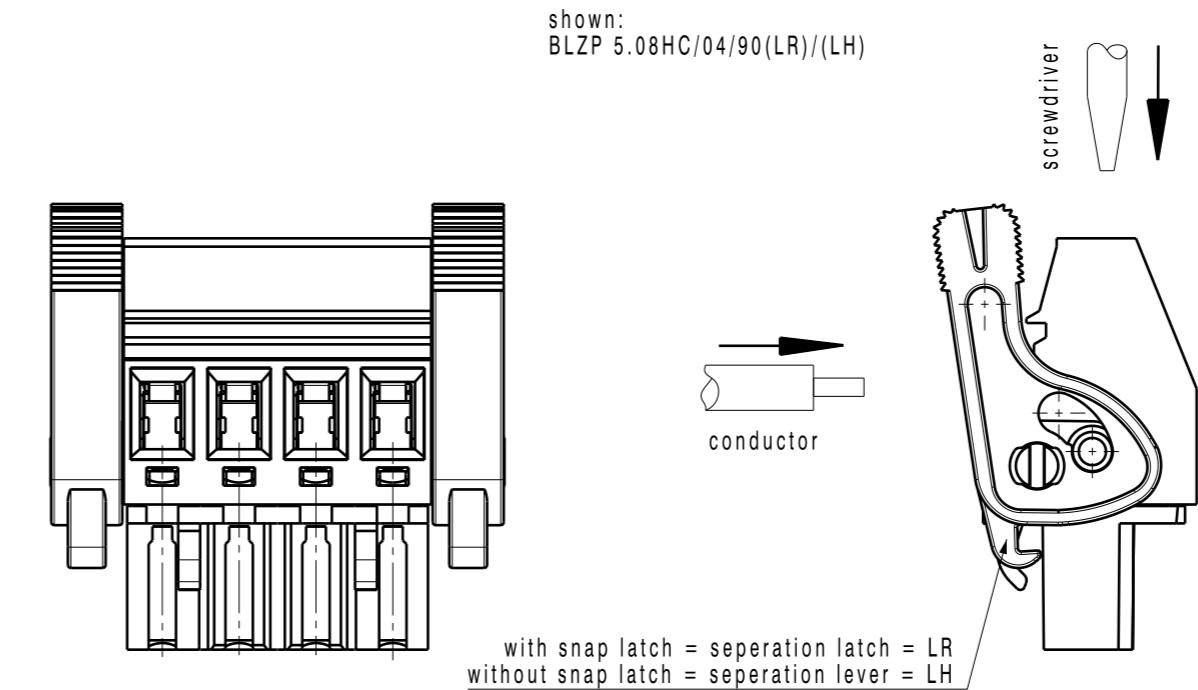
Approval/Certificate/Document of Conformity

[Declaration of the Manufacturer](#)

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Drawings**Dimensional drawing**



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

3 397 86

12
Issue no.

Drawing no. 03 of 03 sheets

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