

Weidmüller Interface GmbH & Co. KG Klingenbergstraße 26

D-32758 Detmold Germany

www.weidmueller.com

Product image





Pin headers made from glass-fibre-reinforced plastic with 90° wire outlet; optimised for wave soldering. The flange variant (F) can be screwed onto the respective counter piece or the circuit board. There is no need for an extra screw to connect the circuit board when the solder flange (LF) version is used. This also protects the solder points from mechanical strain. All pin headers can be manually coded or ordered pre-coded. HC = High Current.

General ordering data

Version	PCB plug-in connector, male header, open side, THT solder connection, 5.08 mm, Number of poles: 20, 90°, Solder pin length (I): 3.2 mm, tinned, black, Box
Order No.	<u>1155270000</u>
Туре	SL 5.08HC/20/90 3.2SN BK BX
GTIN (EAN)	4050118050639
Qty.	20 pc(s).
Product data	IEC: 400 V / 24 A UL: 300 V / 18.5 A
Packaging	Box

Creation date January 21, 2022 9:04:59 AM CET



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Technical data

Depth	12 mm	Depth (inches)	0.472 inch
Height	11.7 mm	Height (inches)	0.461 inch
Height of lowest version	8.5 mm	Width	101.6 mm
Width (inches)	4 inch	Net weight	7.964 g

System specifications

Product family	OMNIMATE Signal - series BL/SL 5.08	Т
Mounting onto the PCB	THT solder connection	P
Pitch in inches (P)	0.2 inch	C
Number of poles	20	N
Solder pin length (I)	3.2 mm	S S S
Solder pin dimensions	d = 1.2 mm, Octagonal	S
Solder eyelet hole diameter (D)	1.3 mm	S
L1 in mm	96.52 mm	L
Number of rows	1	Ρ
Protection degree	IP20	v
Can be coded	Yes	P
Pulling force/pole, max.	7.5 N	

Type of connection	
	Board connection
Pitch in mm (P)	5.08 mm
Outgoing elbow	90°
Number of solder pins per pole	1
Solder pin length tolerance	+0.1 / -0.3 mm
Solder pin dimensions = d tolerance	0 / -0,03 mm
Solder eyelet hole diameter tolerance (D)+ 0,1 mm
L1 in inches	3.8 inch
Pin series quantity	1
Volume resistance	≤5 mΩ
Plugging force/pole, max.	10 N

Material data

Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	II
Comparative Tracking Index (CTI)	≥ 550	UL 94 flammability rating	V-0
Contact material	CuMg	Contact surface	tinned
Layer structure of solder connection	13 µm Ni / 24 µm Sn matt	Layer structure of plug contact	13 µm Ni / 24 µm Sn matt
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

Rated data acc. to IEC

tested acc. to standard		Rated current, min. number of poles	24 A
	IEC 60664-1, IEC 61984	(Tu=20°C)	24 A
Rated current, max. number of poles (Tu=20°C)	19 A	Rated current, min. number of poles (Tu=40°C)	21 A
Rated current, max. number of poles (Tu=40°C)	16.5 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		

Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	18.5 A	Rated current (Use group D / CSA)	10 A

Technical data



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Rated data acc. to UL 1059			
Institute (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)	18.5 A	Rated current (Use group D / UL 1059)	10 A
Reference to approval values	Specifications are maximum values, details - see approval certificate.		
Packing			
Packaging	Box	VPE length	141 mm
VPE width	127 mm	VPE height	30 mm
Classifications			
ETIM 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	EC002637	ECLASS 9.0	27-44-04-02
ECLASS 9.1	27-44-04-02	ECLASS 10.0	27-44-04-02
ECLASS 11.0	27-46-02-01		
Important note			
Important note IPC conformity	standards and norms and comply	eloped, manufactured and delivered according with the assured properties in the data sheet r ass 2". Further claims on the products can be ¢	esp. fulfill decorative properties
	standards and norms and comply	with the assured properties in the data sheet r	resp. fulfill decorative properties
IPC conformity	standards and norms and comply in accordance with IPC-A-610 "CI	with the assured properties in the data sheet r ass 2". Further claims on the products can be e	resp. fulfill decorative properties
IPC conformity	standards and norms and comply in accordance with IPC-A-610 "Cl • Additional colours on request	with the assured properties in the data sheet r ass 2". Further claims on the products can be e	esp. fulfill decorative properties
IPC conformity	standards and norms and comply in accordance with IPC-A-610 "Cl • Additional colours on request • Gold-plated contact surfaces of	with the assured properties in the data sheet r ass 2". Further claims on the products can be e	esp. fulfill decorative properties
IPC conformity	 standards and norms and comply in accordance with IPC-A-610 "Cl Additional colours on request Gold-plated contact surfaces of Rated current related to rated c P on drawing = pitch Rated data refer only to the cord 	with the assured properties in the data sheet r ass 2". Further claims on the products can be e	resp. fulfill decorative properties
IPC conformity	 standards and norms and comply in accordance with IPC-A-610 "Cl Additional colours on request Gold-plated contact surfaces of Rated current related to rated c P on drawing = pitch Rated data refer only to the cord 	with the assured properties in the data sheet r ass 2". Further claims on the products can be e n request ross-section & min. No. of poles. nponent itself. Clearance and creepage distance	resp. fulfill decorative properties
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Downloads	
Approval/Certificate/Document of	
Conformity	Declaration of the Manufacturer
Engineering Data	CAD data – STEP
Product Change Notification	EN - Change of packaging
_	DE - Change of packaging
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
	<u>FL HEATING ELECTR EN</u>
	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

Drawings

Product image



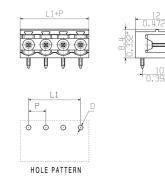


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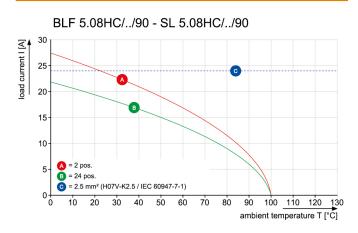
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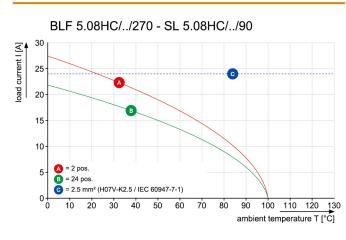
Dimensional drawing



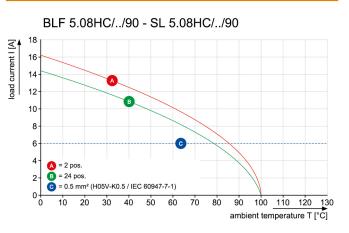
Graph



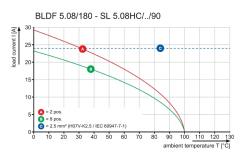
Graph



Graph



Graph



LED Light guides

Accessories



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Effective: the link between LED and front panel.

Floodlight indicators allow users to monitor the switching states without requiring a special design: optical plastic directs the light from standard LEDs around a bend into the connectors or through the front plate.

The fibre-optic elements are simply clipped behind the relevant 90° bend male connectors (90° outlet direction). Versions with different incoming light beam heights achieve maximum light efficiency for LEDs with different designs or heights.

The advantages compared to conventional solutions:

- No additional LED circuit board required behind the front panel
- No "long-legged" LEDs with separate mounting required
- Bent fibre-optic cable line for maximum light efficiency
- Uncomplicated front plate bore holes due to circular shape of outgoing light beam
- · Easy to maintain correct clearance and creepage distance
- Can be partitioned for smaller pole numbers

The result: simplified manufacturing process, reduced costs and simplified design

	0			
Туре	SL FLA 2,3/24	Version	Product data	Packaging
Order No.	<u>1636680000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Box
GTIN (EAN)	4008190409968	Number of poles: 1		
Qty.	10 pc(s).			
Туре	SL FLA 9.0/1	Version	Product data	Packaging
Order No.	<u>1580120000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Box
GTIN (EAN)	4008190031909	Number of poles: 1		
Qty.	100 pc(s).			
Туре	SL FLA 3.8/1	Version	Product data	Packaging
Order No.	<u>1580110000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Box
GTIN (EAN)	4008190050740	Number of poles: 1		
Qty.	100 pc(s).			
Туре	SL FLA 9.0/24	Version	Product data	
Order No.	<u>1595870000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		
GTIN (EAN)	4008190079796	Number of poles: 1		
Qty.	10 pc(s).			
Туре	SL FLA 1.5/24	Version	Product data	
Order No.	<u>1595850000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		
GTIN (EAN)	4008190092573	Number of poles: 1		
Qty.	10 pc(s).			
Туре	SL FLA 2,3/1	Version	Product data	Packaging
Order No.	<u>1636670000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Box
GTIN (EAN)	4008190409975	Number of poles: 1		
Qty.	100 pc(s).			



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Accessories

Туре	SL FLA 1.5/1	Version	Product data	Packaging
Order No.	<u>1580100000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent	,	Box
GTIN (EAN)	4008190152475	Number of poles: 1		
Qty.	100 pc(s).			
Туре	SL FLA 3.8/24	Version	Product data	
Order No.	<u>1595860000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent	,	
GTIN (EAN)	4008190140892	Number of poles: 1		
0				

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.

Туре	BLZ/SL KO OR BX	Version	Product data	Packaging
Order No.	<u>1573010000</u>	PCB plug-in connector, Accessories, Coding element, orange, Number	r	Box
GTIN (EAN)	4008190048396	of poles: 1		
Qty.	100 pc(s).			
Туре	BLZ/SL KO BK BX	Version	Product data	Packaging
Type Order No.	BLZ/SL KO BK BX 1545710000	Version PCB plug-in connector, Accessories, Coding element, black, Number	Product data	Packaging Box
			Product data	0.0

Accessories

Additional accessories





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No task is too small when creating the perfect solution. br />

Connections form just one part of the overall process. Small details are often the key to the perfect solution in applications where potentials are tested, grouped or even isolated.

A system is not a system without small but useful details:

- Test plugs ensure reliable pick-up from diagnostic sockets
- Cross-connectors ensure a stable electrical distribution contact directly at the connection
- Compartment partition elements divide a large number of male connectors into several separate socket connector channels
- Locks and clips optional vibration-resistant clipon connection or mounting for male and female connectors

In tandem with the manufacturing process and application - more accessories = smaller workload

Туре	SL AT OR	Version	Product data	Packaging
Order No.	<u>1598300000</u>	PCB plug-in connector, Accessories, Spacer, orange, Number of poles		Box
GTIN (EAN)	4008190189266	1		
Qty.	100 pc(s).			
-				
Туре	SL AT SW	Version	Product data	Packaging
Type Order No.	SL AT SW <u>1770240000</u>	Version PCB plug-in connector, Accessories, Spacer, black, Number of poles:		Packaging Box
				00
Order No.	1770240000			0 0

Accessories



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Blocks for PCB mounting



Minor component, major effect:

Clip-on attachment elements increase the mechanical resilience of the whole plug connection by

- securing the male connectors to the circuit board
- providing a vibration-proof connection between the sockets and the male connectors

Clip-on or pre-assembled - always the right solution:

- Hard-wearing, precise fitting dovetail joint
- Hard-wearing metal threaded inserts
- Suitable for all outlet directions

Maximum stability, minimum effort:

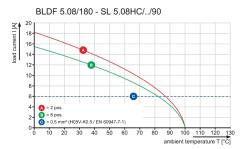
- Extremely resilient for frequent fastening operations
- Complete set for easy selection

The result: soldering points, contacts and overall module are more resilient against mechanical stress such as vibrations and tensile loads.

Туре	SLA BB11R OR	Version	Product data	Packaging
Order No.	<u>1604120000</u>	PCB plug-in connector, Accessories, Mounting block, orange, Numbe	r	Box
GTIN (EAN)	4008190182977	of poles: 1		
Qty.	20 pc(s).			
Туре	SLA BB11R SW	Version	Product data	Packaging
Type Order No.	SLA BB11R SW <u>1692340000</u>	Version PCB plug-in connector, Accessories, Mounting block, black, Number		Packaging Box

Drawings

Graph

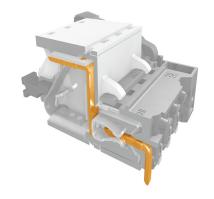




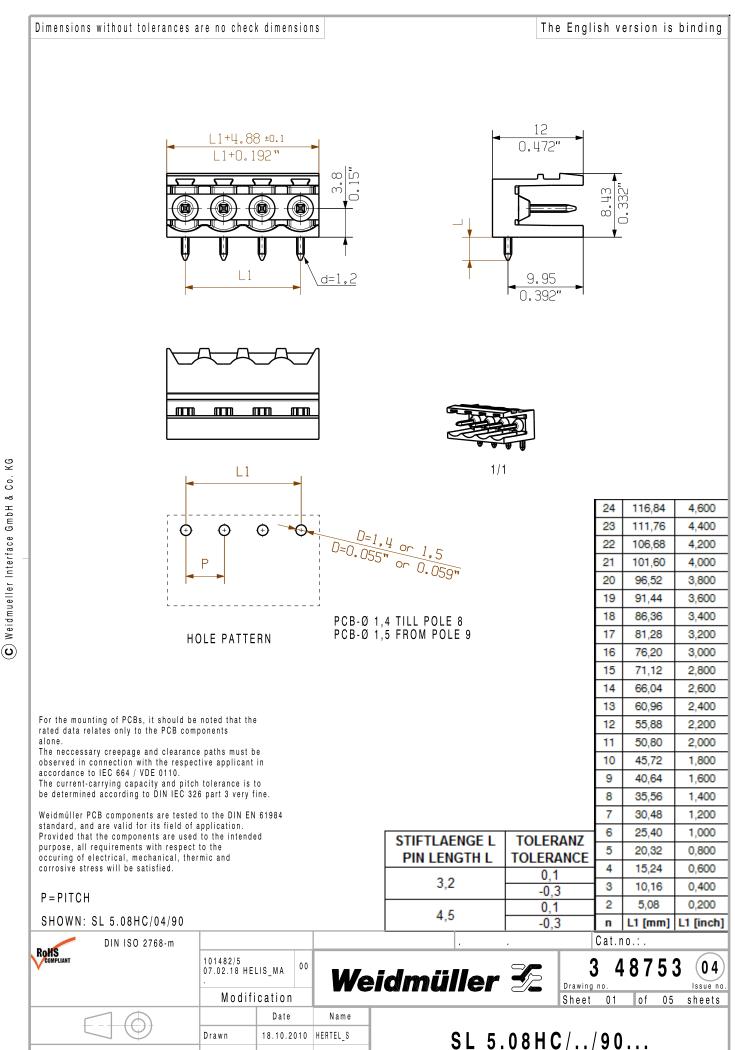
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Safe power transmission Proven properties



HERTEL S

HELIS MA

LANG T

27.02.2018

Responsible

Checked

Approved

Scale: 2:1

Supersedes: .

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7377

STIFTLEISTE

MALE HEADER

Product file: SL-HP 5.08

Wave Solder Profile

Recommended wave solderding profiles

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Double Wave:

Single Wave:



Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

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