



Klingenbergstraße 26 D-32758 Detmold Germany

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### **Product image**















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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, Dovetails for fixing blocks, THT solder connection, 5.08 mm, Number of poles: 2, 90°, Solder pin length (I): 3.2 mm, tinned, black, Box
Order No.	<u>1155580000</u>
Type	SL 5.08HC/02/90B 3.2SN BK BX
GTIN (EAN)	4050118050356
Qty.	100 items
Product data	IEC: 400 V / 24 A UL: 300 V / 18.5 A
Packaging	Box
- dokuging	DOX



Weidmüller Interface GmbH & Co. KG

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# **Technical data**

### **Approvals**

Approvals



ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (cURus)	E60693

### **Dimensions and weights**

Depth	12 mm	Depth (inches)	0.4724 inch
Height	11.63 mm	Height (inches)	0.4579 inch
Height of lowest version	8.43 mm	Width	11.92 mm
Width (inches)	0.4693 inch	Net weight	0.59 g

#### **Environmental Product Compliance**

RoHS Compliance Status	Compliant without exemption	
REACH SVHC	No SVHC above 0.1 wt%	
Product Carbon Footprint	Cradle to gate	0,010 kg CO2 eq.

#### **System specifications**

Product family	OMNIMATE Signal - series BL/SL 5.08	Type of connection	Board connection
Mounting onto the PCB	THT solder connection	Pitch in mm (P)	5.08 mm
Pitch in inches (P)	0.200 "	Outgoing elbow	90°
Number of poles	2	Number of solder pins per pole	1
Solder pin length (I)	3.2 mm	Solder pin length tolerance	+0.1 / -0.3 mm
Solder pin dimensions	d = 1.2 mm, Octagonal	Solder pin dimensions = d tolerance	0 / -0,03 mm
Solder eyelet hole diameter (D)	1.4 mm	Solder eyelet hole diameter tolerance (D)+ 0,1 mm	
L1 in mm	5.08 mm	L1 in inches	0.200 "
Number of rows	1	Pin series quantity	1
Touch-safe protection acc. to DIN VDE 57 106	finger-safe unplugged/ back-of-hand-safe plugged	Touch-safe protection acc. to DIN VDE 0470	IP20 plugged/ IP10 unplugged
Protection degree	IP20	Volume resistance	≤5 mΩ
Can be coded	Yes	Plugging cycles	25
Plugging force/pole, max.	10 N	Pulling force/pole, max.	7.5 N

# **Material data**

Insulating material	PA GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	II
Comparative Tracking Index (CTI)	≤ 600	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Cu-alloy
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		





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Rated data acc. to IE	. to IE	acc.	data	ed	Rate
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tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (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 data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	200039-1121690
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
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

#### Rated data acc. to UL 1059

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)	18.5 A	Rated current (Use group D / UL 1059)	10 A
Reference to approval values	Specifications are maximum values, details -		

## **Packing**

Packaging	Box	VPE length	167.00 mm
VPE width	69.00 mm	VPE height	42.00 mm

VPE width	69.00 mm	VPE height	42.00 mm
Important note	,		
IPC conformity	recognized standard	s and norms and comply with the a perties in accordance with IPC-A-61	and delivered according international ssured properties in the data sheet resp. 0 "Class 2". Further claims on the products
Notes	<ul> <li>Rated current rela</li> <li>Diameter of solde</li> <li>Solder eyelet dian</li> <li>P on drawing = pi</li> <li>Rated data refer o components are t</li> <li>In accordance wit capacity (COC). D</li> <li>disengaged when</li> </ul>	ct surfaces on request ted to rated cross-section & min. No reyelet D = 1.4+0.1mm neter D = 1.5 + 0.1 mm, from 9 poletch new from poletch to be designed in accordance with the IEC 61984, OMNIMATE-connectouring designated use, connectors arrive or under load	ce and creepage distances to other ne relevant application standards.

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# **Technical data**

# Classifications

EC002637	ETIM 7.0	EC002637
EC002637	ETIM 9.0	EC002637
EC002637	ECLASS 9.0	27-44-04-02
27-44-04-02	ECLASS 10.0	27-44-04-02
27-46-02-01	ECLASS 12.0	27-46-02-01
27-46-02-01	ECLASS 14.0	27-46-02-01
27-46-02-01		
	EC002637 EC002637 27-44-04-02 27-46-02-01 27-46-02-01	EC002637 ETIM 9.0 EC002637 ECLASS 9.0 27-44-04-02 ECLASS 10.0 27-46-02-01 ECLASS 12.0 27-46-02-01 ECLASS 14.0



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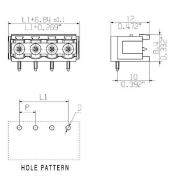
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# **Drawings**

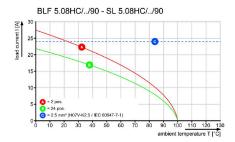
### **Product image**

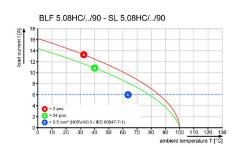


## **Dimensional drawing**

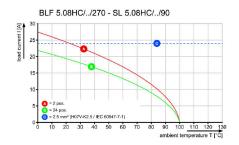


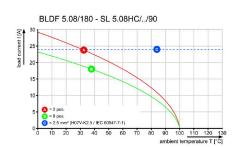
Graph Graph





Graph Graph





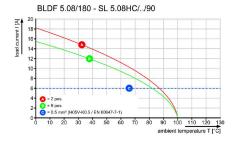


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# **Drawings**

### Graph



SL 5.08HC/02/90B 3.2SN BK BX





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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**

Туре	BLZ/SL KO OR BX	Version
Order No.	<u>1573010000</u>	PCB plug-in connector, Accessories, Coding element, orange, Number
GTIN (EAN)	4008190048396	of poles: 1
Qty.	100 ST	
Туре	BLZ/SL KO BK BX	Version
Type Order No.	BLZ/SL KO BK BX 1545710000	Version PCB plug-in connector, Accessories, Coding element, black, Number
• •	'	

#### **Additional accessories**



No task is too small when creating the perfect solution. 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

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 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

#### **General ordering data**

Туре	SL AT OR	Version
Order No.	<u>1598300000</u>	PCB plug-in connector, Accessories, Spacer, orange, Number of poles:
GTIN (EAN)	4008190189266	1
Qty.	100 ST	
Туре	SL AT SW	Version
Order No.	<u>1770240000</u>	PCB plug-in connector, Accessories, Spacer, black, Number of poles: 1
GTIN (EAN)	4032248117710	
Gille (E) (iv)	4032246117710	

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## Accessories

#### **LED Light guides**



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

#### **General ordering data**

Туре	SL FLA 1.5/1	Version
Order No.	<u>1580100000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,
GTIN (EAN)	4008190152475	Number of poles: 1
Qty.	100 ST	
Туре	SL FLA 2,3/1	Version
Order No.	<u>1636670000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,
GTIN (EAN)	4008190409975	Number of poles: 1
Qty.	100 ST	
Туре	SL FLA 2,3/24	Version
Order No.	1636680000	PCB plug-in connector, Accessories, Flood-light display, Transparent,
GTIN (EAN)	4008190409968	Number of poles: 1
Qty.	10 ST	
Туре	SL FLA 3.8/1	Version
Order No.	<u>1580110000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,
GTIN (EAN)	4008190050740	Number of poles: 1
Qty.	100 ST	
Туре	SL FLA 9.0/1	Version
Order No.	<u>1580120000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,
GTIN (EAN)	4008190031909	Number of poles: 1
Qty.	100 ST	





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# **Accessories**

#### **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.

#### **General ordering data**

Туре	SLA BB11R OR	Version
Order No.	<u>1604120000</u>	PCB plug-in connector, Accessories, Mounting block, orange, Number
GTIN (EAN)	4008190182977	of poles: 0
Qty.	20 ST	
Type	SLA BB11R SW	Version
Type Order No.	SLA BB11R SW 1692340000	Version PCB plug-in connector, Accessories, Mounting block, black, Number