

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com















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High-temperature-resistant, 90° angled, open male header. Packed in box or tape. On tape, with 1.5 mm solder pin, optimised for automatic assembly. 3.2 mm solder pin suitable for reflow and wave soldering. The pin headers provide space for labelling and can be coded. HC = High Current.

General ordering data

PCB plug-in connector, male header, open side, THT/THR solder connection, 5.08 mm, Number of poles: 2, 90°, Solder pin length (I): 1.5 mm, tinned, black, Box
<u>1774762001</u>
SL-SMT 5.08HC/02/90 1.5SN BK BX
4032248155699
100 items
IEC: 400 V / 27.5 A UL: 300 V / 18.5 A
Вох



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Technical data

Approvals

Approvals



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

Dimensions and weights

Depth	12 mm	Depth (inches)	0.4724 inch
Height	10 mm	Height (inches)	0.3937 inch
Height of lowest version	8.5 mm	Width	10.16 mm
Width (inches)	0.4 inch	Net weight	0.83 g

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption	
REACH SVHC	No SVHC above 0.1 wt%	
Product Carbon Footprint	Cradle to gate	0,008 kg CO2 eq.

System specifications

Product family	OMNIMATE Signal - series BL/SL 5.08	Type of connection	Board connection
Mounting onto the PCB	THT/THR 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)	1.5 mm	Solder pin length tolerance	0 / -0.3 mm
Solder pin dimensions	d = 1.2 mm, Octagonal	Solder eyelet hole diameter (D)	1.4 mm
Solder eyelet hole diameter tolerance (0)+ 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 force/pole, max.	9 N	Pulling force/pole, max.	7 N

Material data

Insulating material	LCP GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	Illa
Comparative Tracking Index (CTI)	≥ 175	Moisture Level (MSL)	1
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	Storage temperature, min.	-40 °C
	matt		
Storage temperature, max.	70 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C	Temperature range, installation, min.	-30 °C
Temperature range, installation, max.	100 °C	· ·	



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Rated data acc. to IEC		
tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles

Rated current, max. number of poles 19 A (Tu=20°C) 16.5 A Rated current, max. number of poles (Tu=40°C) Rated voltage for surge voltage class / 320 V pollution degree III/2

Rated impulse voltage for surge voltage 4 kV class/ pollution degree II/2

Rated impulse voltage for surge voltage 4 kV class/ contamination degree III/3

Rated current, min. number of poles (Tu=20°C)	27.5 A
Rated current, min. number of poles (Tu=40°C)	24 A
Rated voltage for surge voltage class / pollution degree II/2	400 V
Rated voltage for surge voltage class / pollution degree III/3	250 V
Rated impulse voltage for surge voltage class/ pollution degree III/2	4 kV

Rated data acc. to CSA

Institute (CSA)	CSA	Certificate N
Rated voltage (Use group B / CSA)	300 V	Rated voltage
Rated current (Use group B / CSA)	18.5 A	Rated curre
Reference to approval values	Specifications are maximum values, details - see approval certificate.	

Certificate No. (CSA)	200039-1176845
Rated voltage (Use group D / CSA)	300 V
Rated current (Use group D / CSA)	18.5 A

Rated data acc. to UL 1059

Institute (UR)	UR
Rated voltage (Use group B / UL 1059)	300 V
Rated current (Use group B / UL 1059)	18.5 A
Reference to approval values	Specifications are maximum values, details -

Certificate No. (UR) E60693 Rated voltage (Use group D / UL 1059) 300 V Rated current (Use group D / UL 1059) 10 A

Packing

Packaging	Box	VPE length	166.00 mm
VPE width	69.00 mm	VPE height	44.00 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.
Notes	Gold-plated contact surfaces on request

- · Rated current related to rated cross-section & min. No. of poles.
- Diameter of solder eyelet D = 1.4+0.1mm
- Solder eyelet diameter D = 1.5 + 0.1 mm, from 9 poles
- P on drawing = pitch

see approval certificate.

- · 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 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	EC002637	ETIM 9.0	EC002637

Creation date 12.11.2025 11:07:12 MEZ







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Technical data

ETIM 10.0	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	ECLASS 12.0	27-46-02-01
ECLASS 13.0	27-46-02-01	ECLASS 14.0	27-46-02-01
ECLASS 15.0	27-46-02-01		



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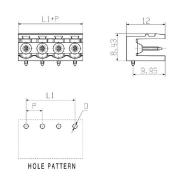
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Drawings

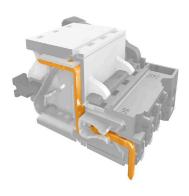
Product image



Dimensional drawing



Product benefits



Safe power transmissionProven properties



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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 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
Type Order No.	SL FLA 2,3/24 1636680000	Version PCB plug-in connector, Accessories, Flood-light display, Transparent,
	. ,	

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
- 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

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Accessories

General ordering data

Type	SL AT SW	Version
Order No.	<u>1770240000</u>	PCB plug-in connector, Accessories, Spacer, black, Number of poles: 1
GTIN (EAN)	4032248117710	
Qty.	100 ST	

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.

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General ordering data

BLZ/SL KO BK BX	Version
<u>1545710000</u>	PCB plug-in connector, Accessories, Coding element, black, Number
4008190087142	of poles: 1
50 ST	
BLZ/SL KO OR BX	Version
<u>1573010000</u>	PCB plug-in connector, Accessories, Coding element, orange, Number
4008190048396	of poles: 1
100 ST	
	1545710000 4008190087142 50 ST BLZ/SL KO OR BX 1573010000 4008190048396

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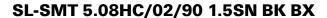
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General ordering data

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 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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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	