

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image

















Male connectors with 90° outlet direction. The solder pin length is optimised for wave flow soldering. The pin headers provide space for labelling and can be coded.

General ordering data

Version	PCB plug-in connector, male header, Dovetails for fixing blocks, THT solder connection, 7.50 mm, Number of poles: 6, 90°, Solder pin length (I): 3.2 mm, tinned, orange, Box
Order No.	<u>1628510000</u>
Туре	SL 7.50/06/90B 3.2SN OR BX
GTIN (EAN)	4008190201319
Qty.	50 pc(s).
Product data	IEC: 800 V / 18.5 A
	UL: 300 V / 15 A
Packaging	Вох

Creation date June 12, 2025 2:59:50 AM CEST



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Technical data

Dimensions and weights

Depth	12 mm	Depth (inches)	0.472 inch
Height	11.7 mm	Height (inches)	0.461 inch
Height of lowest version	8.5 mm	Net weight	2.51 g

System specifications

Product family	OMNIMATE Signal - series	Type of connection	
	BL/SL 7.50		Board connection
Mounting onto the PCB	THT solder connection	Pitch in mm (P)	7.5 mm
Pitch in inches (P)	0.295 "	Outgoing elbow	90°
Number of poles	6	Number of solder pins per pole	1
Solder pin length (I)	3.2 mm	Solder eyelet hole diameter (D)	1.3 mm
Solder eyelet hole diameter tole	erance (D)+ 0,1 mm	L1 in mm	37.5 mm
L1 in inches	1.476 "	Number of rows	1
Pin series quantity		Touch-safe protection acc. to DIN VDE	Safe from finger touch,
	1	57 106	plugged
Volume resistance	4.50 mΩ	Can be coded	Yes

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	Cu-alloy	Contact surface	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

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	18.5 A
Rated current, max. number of poles (Tu=20°C)	17 A	Rated current, min. number of poles (Tu=40°C)	16 A
Rated current, max. number of poles (Tu=40°C)	14.5 A	Rated voltage for surge voltage class / pollution degree II/2	800 V
Rated voltage for surge voltage class / pollution degree III/2	630 V	Rated voltage for surge voltage class / pollution degree III/3	500 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	6 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	6 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	6 kV	Short-time withstand current resistance	3 x 1s with 120 A

Rated data acc. to CSA

Institute (CSA)	(1)	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)	15 A	Rated current (Use group D / CSA)	10 A
Reference to approval values	Specifications are maxi- mum values, details - see approval certificate.		



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Technical data

Rated data acc. to UL 1059

In atitute (LID)		Contificate No. (LID)		
Institute (UR)	<i>71</i> .	Certificate No. (UR)		
			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)	15 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	221 mm	
VPE width	67 mm	VPE height	48 mm	
Classifications				
ETIM 6.0	EC002637	ETIM 7.0	EC002637	
ETIM 8.0	EC002637	ETIM 9.0	EC002637	
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			
Environmental Product Complian	се			
RoHS Compliance Status	Compliant without exemption			
REACH SVHC	No SVHC above 0.1 wt%			
Important note				
IPC conformity	dards and norms and comply wi	eveloped, manufactured and delivered according ith the assured properties in the data sheet resp. ss 2". Further claims on the products can be eva	fulfill decorative properties in	
Notes	Additional variants on request			
	Gold-plated contact surfaces of	on request		
	Rated current related to rated	cross-section & min. No. of poles.		
	Rated voltage for 7.62 mm pi	tch: II/2 = 1000 V / 6 kV		
	• 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. 			
		4, OMNIMATE-connectors are connectors without are not allowed to be engaged or disengaged		
	Long term storage of the proc months	duct with average temperature of 50 °C and max	ximum humidity 70%, 36	



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Technical data

Approvals

Approvals



Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319226/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319262/-T1z1mm-S800/
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UR)	E60693

Downloads

Approval/Certificate/Document of Con-	
formity	<u>Declaration of the Manufacturer</u>
Engineering Data	CAD data – STEP
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
	<u>FL APPL_INVERTER EN</u>
	FL BASE STATION EN
	<u>FL ELEVATOR EN</u>
	FL POWER SUPPLY EN
	FL 72H SAMPLE SER EN
	PO OMNIMATE EN



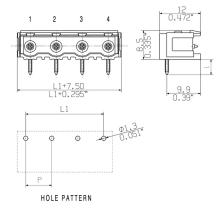
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Drawings

Dimensional drawing





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Jermany

Accessories

Additional accessories



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	s:	Box
GTIN (EAN)	4008190189266	1		
Qty.	100 pc(s).			
Туре	SL AT SW	Version	Product data	Packaging
Order No.	1770240000	PCB plug-in connector, Accessories, Spacer, black, Number of poles:	1	Box
GTIN (EAN)	4032248117710			
Qty.	100 pc(s).			



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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.

Туре	SLA BB2R OR	Version	Product data	Packaging
Order No.	<u>1723440000</u>	PCB plug-in connector, Accessories, Mounting block, orange, Number	er	Box
GTIN (EAN)	4008190365998	of poles: 0		
Qty.	20 pc(s).			
Туре	SLA BB12R SW	Version	Product data	Packaging
Order No.	<u>1626880000</u>	PCB plug-in connector, Accessories, Mounting block, black, Number	of	Box
GTIN (EAN)	4008190198213	poles: 0		
Qty.	100 pc(s).			
Туре	SLA BB12R OR	Version	Product data	Packaging
Order No.	<u>1593450000</u>	PCB plug-in connector, Accessories, Mounting block, orange, Number	er	Вох
GTIN (EAN)	4008190122164	of poles: 0		
Qty.	100 pc(s).			
Туре	SLA BB1R SW	Version	Product data	Packaging
Order No.	<u>1723480000</u>	PCB plug-in connector, Accessories, Mounting block, black, Number	of	Box
GTIN (EAN)	4008190366032	poles: 0		
Qty.	20 pc(s).			
Туре	SLA BB5R SW	Version	Product data	Packaging
Order No.	<u>1723510000</u>	PCB plug-in connector, Accessories, Mounting block, black, Number	of	Вох
GTIN (EAN)	4008190366063	poles: 0		
Qty.	20 pc(s).			
Туре	SLA BB5R OR	Version	Product data	Packaging
Order No.	<u>1723460000</u>	PCB plug-in connector, Accessories, Mounting block, orange, Number	r	Box
GTIN (EAN)	4008190366018	of poles: 0		
Qty.	20 pc(s).			
Туре	SLA BB11R SW	Version	Product data	Packaging
Order No.	<u>1692340000</u>	PCB plug-in connector, Accessories, Mounting block, black, Number	of	Box
GTIN (EAN)	4008190864965	poles: 0		
Qty.	20 pc(s).			



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Accessories **A**

Туре	SLA BB6R OR	Version	Product data	Packaging
Order No.	1723470000	PCB plug-in connector, Accessories, Mounting block, orange, Number	er	Box
GTIN (EAN)	4008190366025	of poles: 0		
Qty.	20 pc(s).			
Туре	SLA BB6R SW	Version	Product data	Packaging
Order No.	<u>1723520000</u>	PCB plug-in connector, Accessories, Mounting block, black, Number	of	Box
GTIN (EAN)	4008190366070	poles: 0		
Qty.	20 pc(s).			
Туре	SLA BB1R OR	Version	Product data	Packaging
Order No.	1723430000	PCB plug-in connector, Accessories, Mounting block, orange, Numbe	er	Вох
GTIN (EAN)	4008190365981	of poles: 0		
Qty.	20 pc(s).			
Туре	SLA BB11R OR	Version	Product data	Packaging
Order No.	1604120000	PCB plug-in connector, Accessories, Mounting block, orange, Numbe	er	Вох
GTIN (EAN)	4008190182977	of poles: 0		
Qty.	20 pc(s).			
Туре	SLA BB2R SW	Version	Product data	Packaging
Order No.	1723490000	PCB plug-in connector, Accessories, Mounting block, black, Number	of	Box
GTIN (EAN)	4008190366049	poles: 0		
Qty.	20 pc(s).			

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

Туре	SL FLA 2,3/1	Version	Product data	Packaging
Order No.	1636670000	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 9.0/24	Version	Product data	
Order No.	1595870000	PCB plug-in connector, Accessories, Flood-light display, Transparent,	r roudet data	
GTIN (EAN)	4008190079796	Number of poles: 1		
Qty.	10 pc(s).			
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,		Вох
GTIN (EAN)	4008190031909	Number of poles: 1		
Qty.	100 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 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		
Qty.	10 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,		Вох
GTIN (EAN)	4008190050740	Number of poles: 1		
Qty.	100 pc(s).			
Туре	SL FLA 1.5/1	Version	Product data	Packaging
Order No.	<u>1580100000</u>	PCB plug-in connector, Accessories, Flood-light display, Transparent,		Вох
GTIN (EAN)	4008190152475	Number of poles: 1		
Qty.	100 pc(s).			

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 BK BX	Version	Product data	Packaging
Order No.	<u>1545710000</u>	PCB plug-in connector, Accessories, Coding element, black, Number		Box
GTIN (EAN)	4008190087142	of poles: 1		
Qty.	50 pc(s).			



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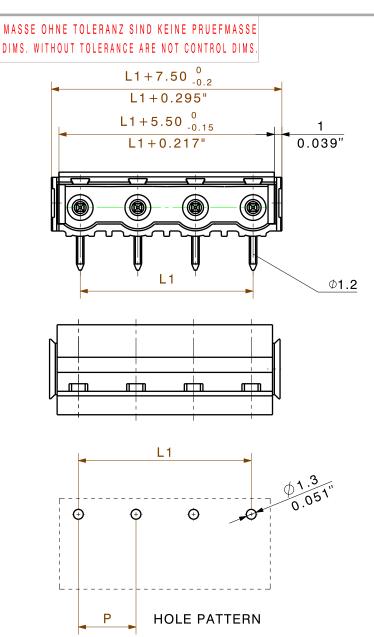
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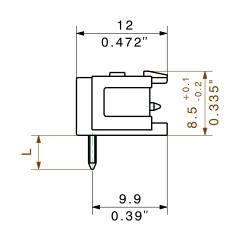
Accessories

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).			

WEIDMUELLER INTERFACE GmbH & Co.KG



DIE DEUTSCHE VERSION IST VERBINDLICH THE GERMAN VERSION IS BINDING



For the mounting of PCBs, it should be noted that the rated data relates only to the PCB components alone. The neccessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to IEC 664 / VDE 0110.

The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller PCB components are tested to the DIN EN 61984 standard, and are valid for its field of application. Provided that the components are used to the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.

P = PITCH

SHOWN: SL7.50/04/90B

4,5	-0,3	n	L1 [mm]	L1 [lach]
4,5	0,1	2	7,50	0,295
3,2	-0,3	3	15,00	0,591
	0,1	4	22,50	0,886
PIN LENGTH L		5	30,00	1,181
STIFTLÄNGE L	TOLERANZ	6	37,50	1,476
		7	45,00	1,772
		8	52,50	2,067

12

10

9

82,50

75,00

67,50

60,00

3,248

2,953

2,657

2,362

Dolle	METRIC TOLERANCES											
ROHS	METRIC TOLERANCES: X. = ±0.3 X.X = ±0.1 X.XX = ±0.05	57768/0 28.03.11 HOHLBEIN_K MODIFI		We	eidmüll	er	3	DRAWING SHEET		1 3		07 ISSUE NO. SHEETS
	\Box		DATE	NAME								
	4	DRAWN	15.10.2003	HERTEL_S		ST.	7.50/	/ Q	n			
		RESPONSIBLE		HERTEL_S		O L	STIFTLE		U	1		
SCALE: 5	5:1	CHECKED	29.03.2011	HECKERT_M			PIN HE					
SUPERSE	DES:.	APPROVED		HECKERT_M	PRODUCT FILE:	BLZ/S	L 7.50				7152	'



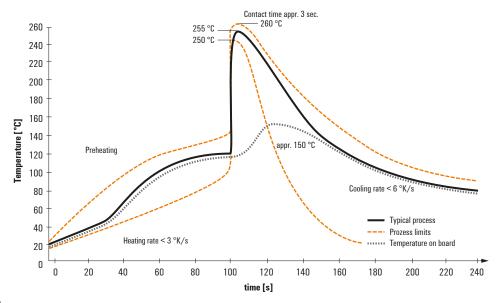
Recommended wave solderding profiles

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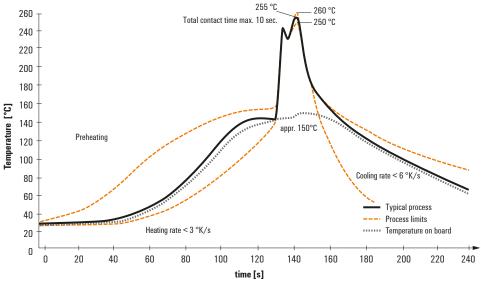
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Single Wave:



Double 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.