

SL 7.62/10/90B 3.2SN OR BX

Weidmüller Interface GmbH & Co. KG

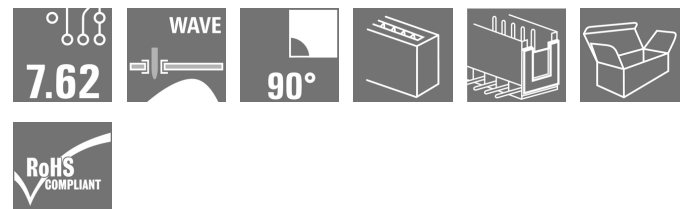
Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Example of use



Similar to illustration

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, 7.62 mm, Number of poles: 10, 90°, Solder pin length (l): 3.2 mm, tinned, orange, Box
Order No.	1624450000
Type	SL 7.62/10/90B 3.2SN OR BX
GTIN (EAN)	4008 190195502
Qty.	50 pc(s).
Product data	IEC: 800 V / 18.5 A UL: 300 V / 15 A
Packaging	Box

Creation date March 24, 2021 1:36:54 PM CET

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Technical data

Dimensions and weights

Net weight 5.06 g

System specifications

Product family		Type of connection	
OMNIMATE Signal - series BL/SL 7.62	THT solder connection	Pitch in mm (P)	Board connection
Mounting onto the PCB	THT solder connection	Outgoing elbow	90°
Pitch in inches (P)	0.3 inch	Number of solder pins per pole	1
Number of poles	10	Solder eyelet hole diameter (D)	1.3 mm
Solder pin length (l)	3.2 mm	L1 in mm	68.58 mm
Solder eyelet hole diameter tolerance (D)+	0,1 mm	Number of rows	1
L1 in inches	2.7 inch	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch, plugged
Pin series quantity	1	Can be coded	Yes
Volume resistance	4.50 mΩ		
Pulling force/pole, max.	2 N		


Material data

Insulating material		Colour	
PBT	RAL 2000	orange	IIIa
Colour chart (similar)	RAL 2000	Insulating material group	IIIa
Comparative Tracking Index (CTI)	≥ 200	UL 94 flammability rating	V-0
Contact material	CuSn	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		Rated current, min. number of poles (Tu=20°C)	
IEC 60664-1, IEC 61984	17 A	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)		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 maximum values, details - see approval certificate.		

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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 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	67 mm
VPE width	88 mm	VPE height	143 mm

Classifications

ETIM 6.0	EC002637	ETIM 7.0	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

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	<ul style="list-style-type: none"> • Additional colours on request • Gold-plated contact surfaces on request • Rated current related to rated cross-section & min. No. of poles. • Rated voltage for 7.62 mm pitch: $U/2 = 1000 \text{ V} / 6 \text{ kV}$ • 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. • Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

Approvals

Approvals	
ROHS	Conform
UL File Number Search	E60693

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Technical data**Downloads**

Approval/Certificate/Document of Conformity	Declaration of the Manufacturer
Engineering Data	STEP
Product Change Notification	DE - Change of packaging EN - Change of packaging DE - Change of packaging Step 2 EN - Change of packaging Step 2

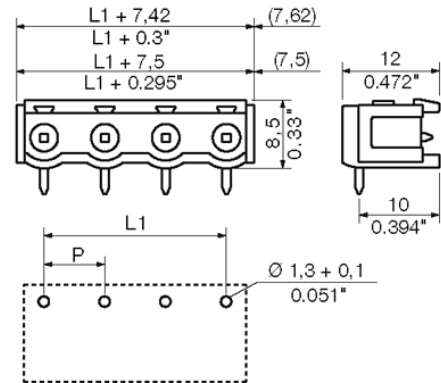
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Drawings

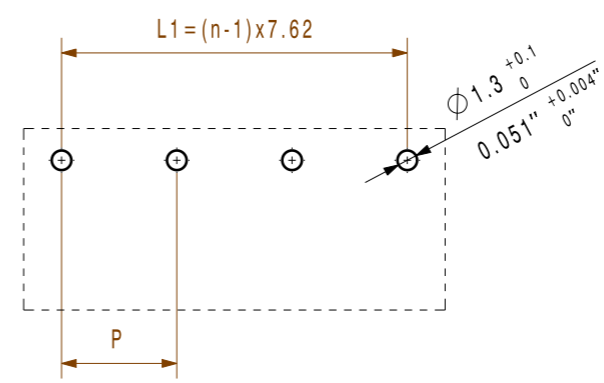
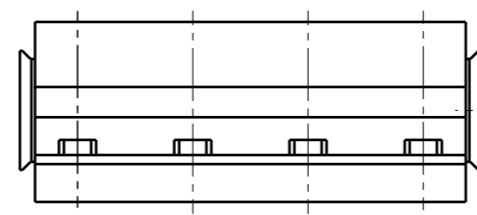
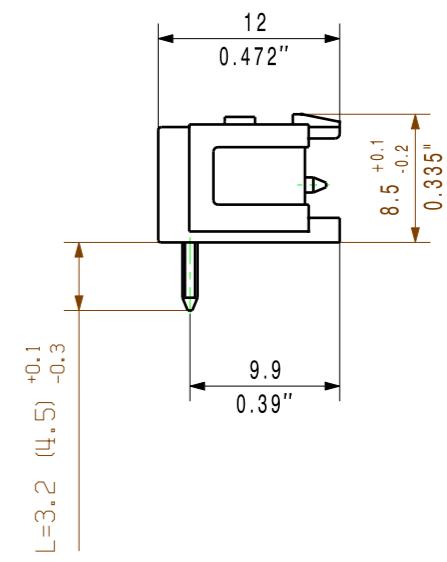
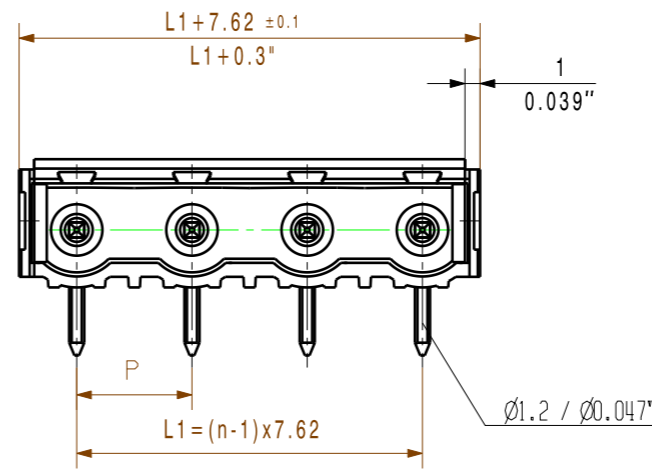
Dimensional drawing



DIE DEUTSCHE VERSION IST VERBINDLICH
THE GERMAN VERSION IS BINDING

WEITERGABE SOWIE VERVIELFÄLTIGUNG DIESES DOKUMENTS, VERWERTUNG UND MITTEILUNG SEINES INHALTS SIND VERBOTEN, SOWEIT NICHT AUSDRUECKLICH GESTATTET.
ZUWIDERHANDLUNGEN VERPFLICHTEN ZU SCHADENERSATZ. ALLE RECHTE FUER DEN FALL DER PATENT-, GEBRAUCHSMUSTER-, ODER GESCHMACKSMUSTEREINTRAGUNG VORBEHALTEN.
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HOLE PATTERN

P=PITCH
n=POLZAHL/ NO OF POLES

SHOWN:SL7.62/04/90B

For the mounting of PCBs, it should be noted that the rated data stated here relates only to the PCB components alone.
The necessary 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 occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

12	83,82	3,300
11	76,20	3,000
10	68,58	2,700
9	60,96	2,400
8	53,34	2,100
7	45,72	1,800
6	38,10	1,500
5	30,48	1,200
4	22,86	0,900
3	15,24	0,600
2	7,62	0,300
n	L1 [mm]	L1 [inch]

	METRIC TOLERANCES: X. = ±0.3 X.X = ±0.1 X.XX = ±0.05	58244/0 05.05.11 HOHLBEIN_K 01	CAT.NO.: C 18408 14
	MODIFICATION		DRAWING NO. SHEET 02 OF 02 SHEETS ISSUE NO.
	DRAWN 07.10.2003 MADER_M RESPONSIBLE HERTEL_S CHECKED 05.05.2011 HECKERT_M APPROVED HECKERT_M	DATE NAME	SL 7.62/././90(B)... STIFTLISTE PIN HEADER
SCALE: 2/1 SUPERSEDES:	PRODUCT FILE: SL 7.62	7120	

Recommended wave soldering profiles

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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.